Preliminary Design

Let's Make a Match

Falcon Enterprises

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Falcon Enterprises Let's Make a Match Preliminary Design

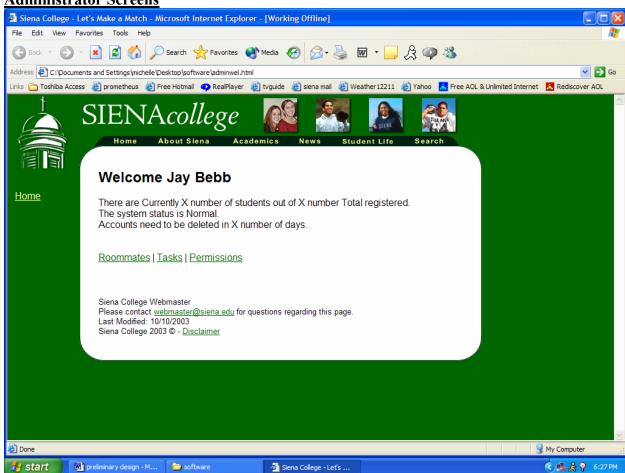
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External Design Specifications User Displays and Report Formats

Log-in Screen



Administrator Screens



Administrator Tasks Screen

Siena College - Let's Make a Match - Microsoft Internet Explorer - [Working Offline]

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Add Freshmen

- Add Freshmen

- Add Returning student

- Change Passwords

- Review Roommates

- View Database

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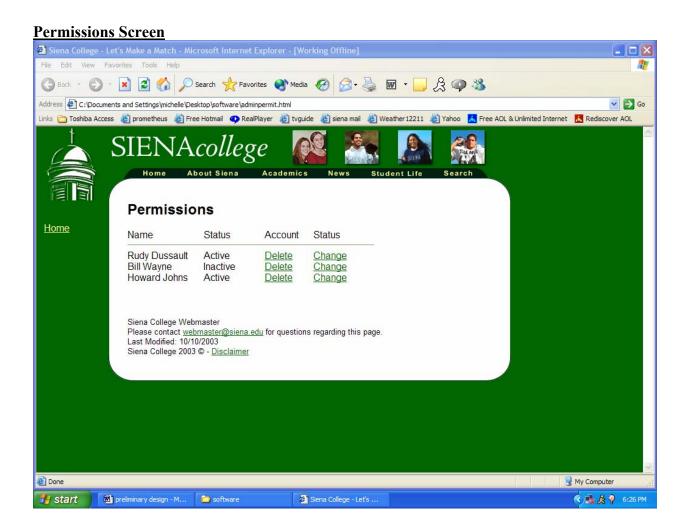
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preliminary design - M...

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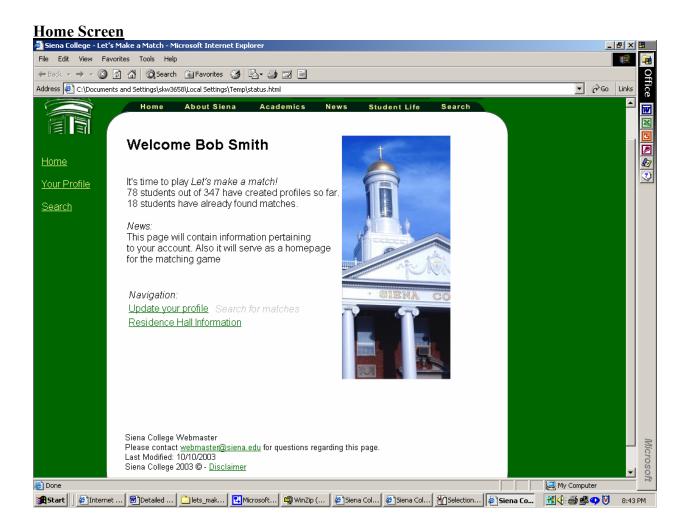
Paired Roommates



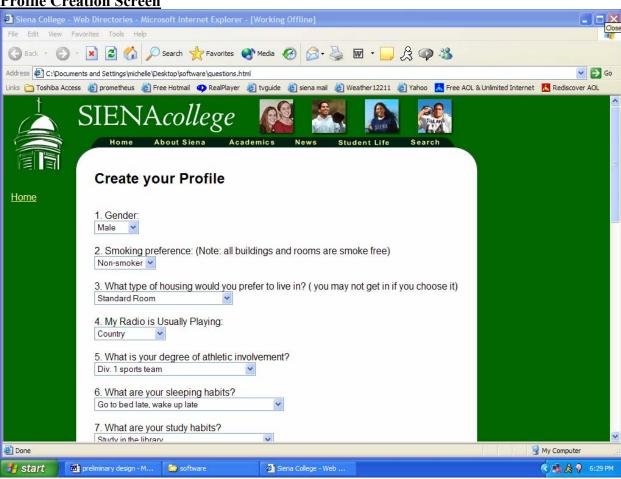


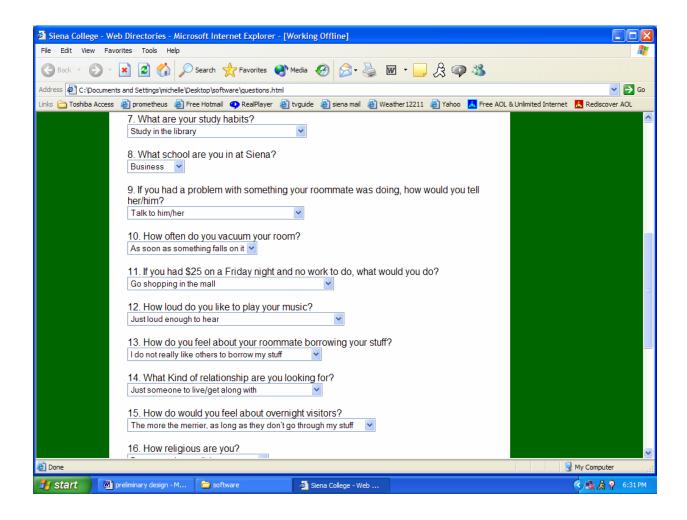
Freshmen Screens

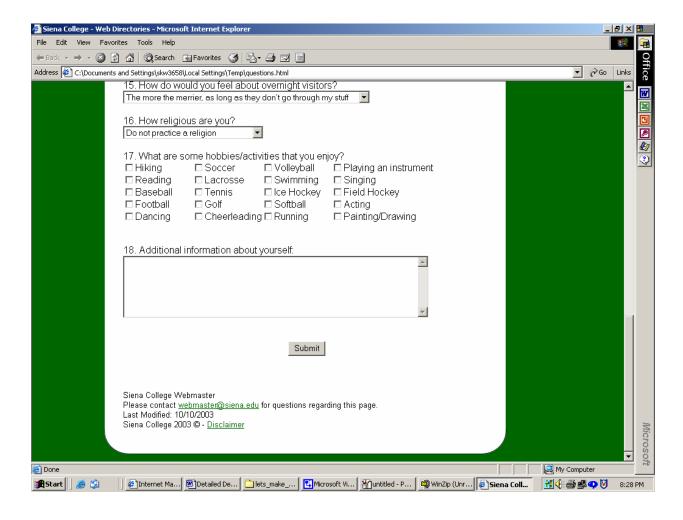




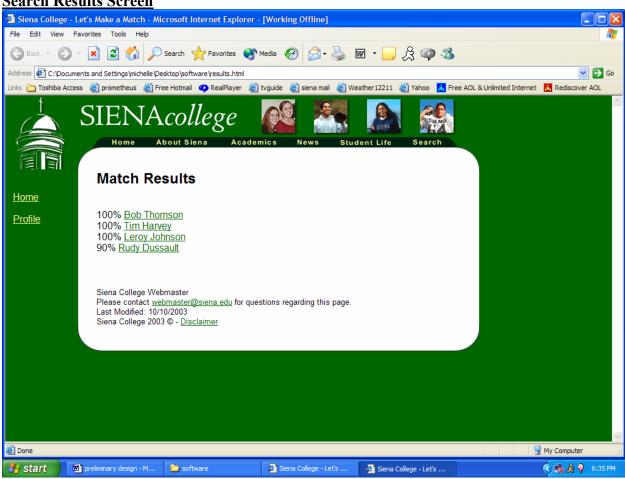
Profile Creation Screen

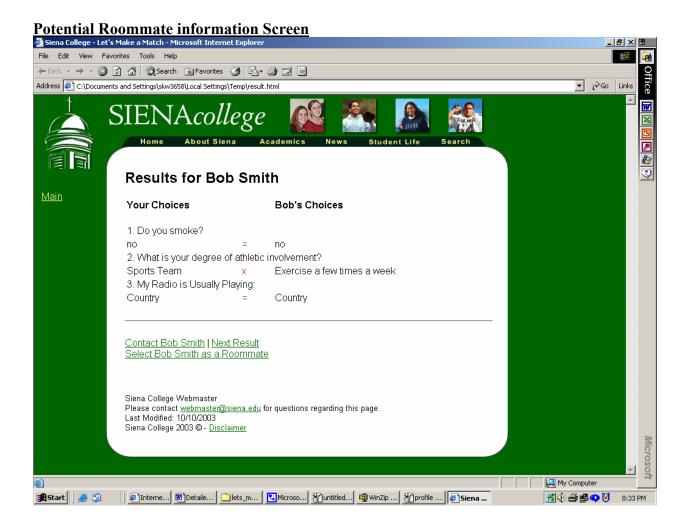


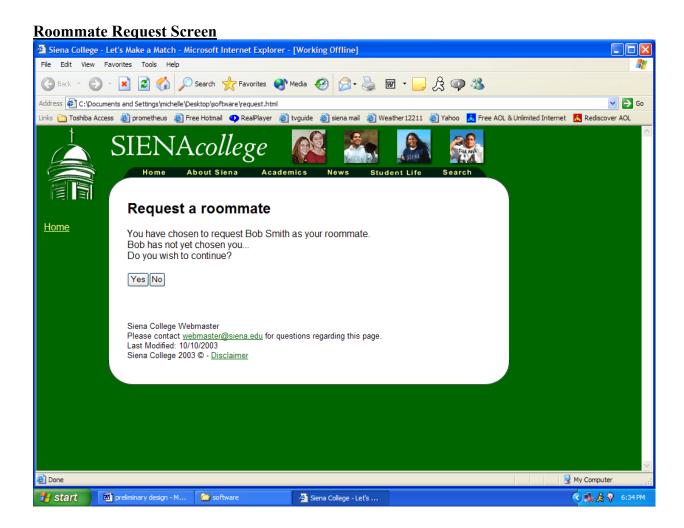


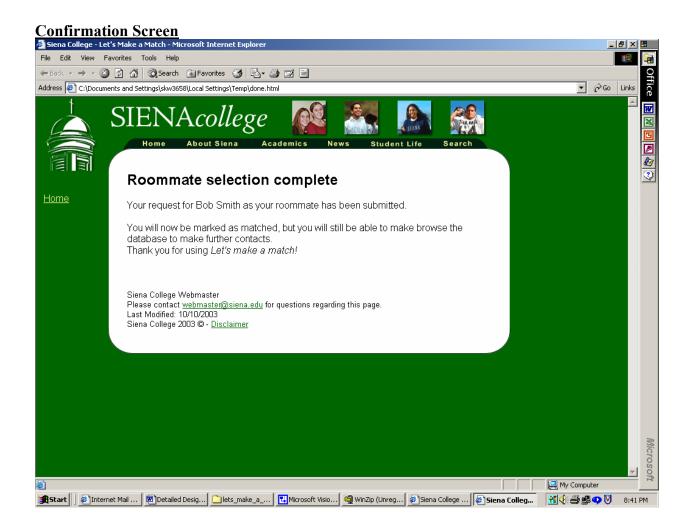


Search Results Screen



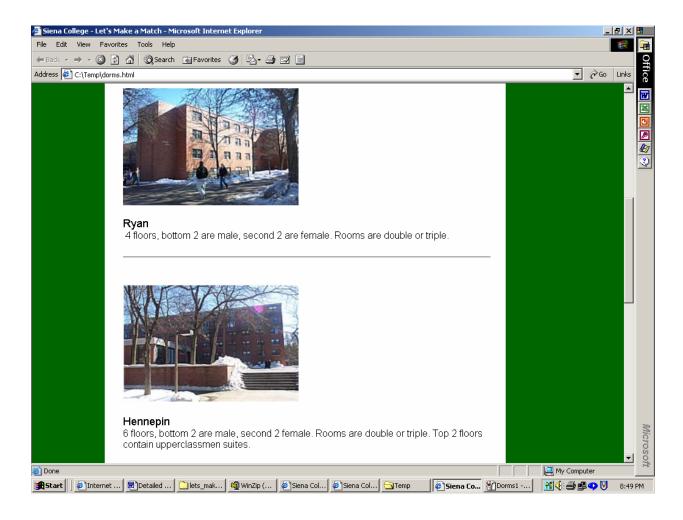


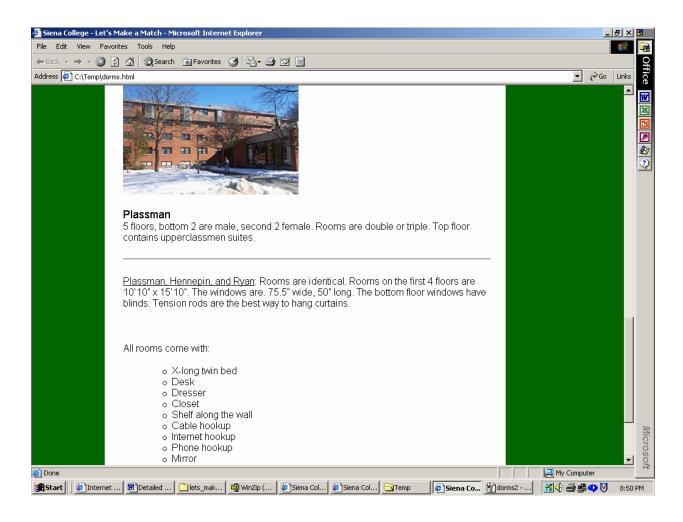




Dorms Screens







User command summary

Freshman Screens:

Let's Make a Match! Program Screen

This is the First screen any user sees when accessing the system. It provides the user with a brief overview of what the system is used for. It also displays some limited help to get the user started and logged in. At this screen, the user selects whether he/she is a freshmen, a returning student, or an administrator.

Log In

The housing department will supply users with a user name and password to use. Once the user is logged on the password can be changed. The user enters his/her user name and password. If a correct user name and password is supplied then the user will be brought to the General welcome screen. If the system does not recognize the user name or password then an authorization-failed page will be displayed.

Authorization-failed

This screen is used to alert the user that his/her user name or password has not been accepted. From here the user can attempt to log in again or contact the system administrator.

General Welcome Screen

This screen serves as a personalized homepage for the user. It lists statistics pertaining to how many users are in the system. Also information about your account will be listed. From this screen the user can chose to Create/Update their profile, query the other users or change their password. A space will be provided for news items, and important dates that need to be known.

Password Screen

The user is asked to enter his/her old password, and the new password twice. If the old password is correct, then the user will be alerted that his/her new password has been changed and the user will be brought to the General welcome screen. If the old password is incorrect, then the user will be alerted that they have entered invalid information and be returned to the General welcome screen

Create/Update Profile Screen

The user enters his/her first and last name as well as personal e-mail address. Optionally the user can enter other means of contact, such as home phone or mailing address. Spaces will be provided for AIM and ICQ names to be entered as well. The user can enter a question and answer that can be used to send them a new password as well. The user must answer 10-15 questions that outline their personal preferences and habits and will be used in the algorithm to select a roommate. Additionally, the user can select any number of items in a list of hobbies and sports that they are interested in. A text area will also be available for the user to put personalized information about themselves that they want known, but was not covered in the other areas. Once all required information has been entered the user can select the submit button to save his/her changes.

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Query Results Screen

This screen displays the matches found by the query algorithm in a numbered list that is sorted by relevance. Each match contains some basic information about the match, such as user name, class status, and availability. The user can either select a match in the list or return to the General welcome screen.

Student Information Screen

The student information screen provides a more detailed description of a match than the Query results screen. The match's answers will be compared to users answers in a question-by-question evaluation. Similar answers will be flagged with a green marker and conflicting answers will be flagged with a red marker. The hobbies and interests selected by the match will be shown after the questions. Also any additional comments the match may have entered will be displayed at the bottom of the page. The user can contact the current match, request the match, or view the next match in the Query results screen.

Request Screen

Once the user has found a suitable roommate her/she can send a request to housing using this screen. The match's name is shown at the top, as well as whether or not the match has chosen you as a roommate. The User clicks Submit, and the request is processed by the system.

Administrative Screens:

Log In

Same as above

Administrator Welcome Screen

This screen serves as a homepage for the administrator. It will list statistics that are vital to the maintenance of the system. There are several links that take the user to the Roommate printout screen, User permissions screen and the Tasks screen.

Roommate Printout Screen

Displays a list of all roommate pairs that is sorted by date. The details of the list include roommate names, dorm preferences, and class status. This screen will have the option to be formatted for a printer as well.

User Permissions Screen

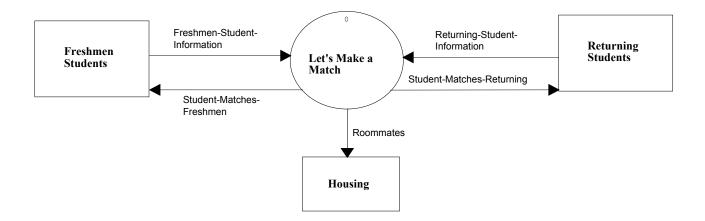
This screen will handle student accounts. The administrator can select any student and either: remove him/her, toggle availability status, or change password. A general help paragraph will explain when and why the administrator would need to change a students permissions.

Tasks Screen

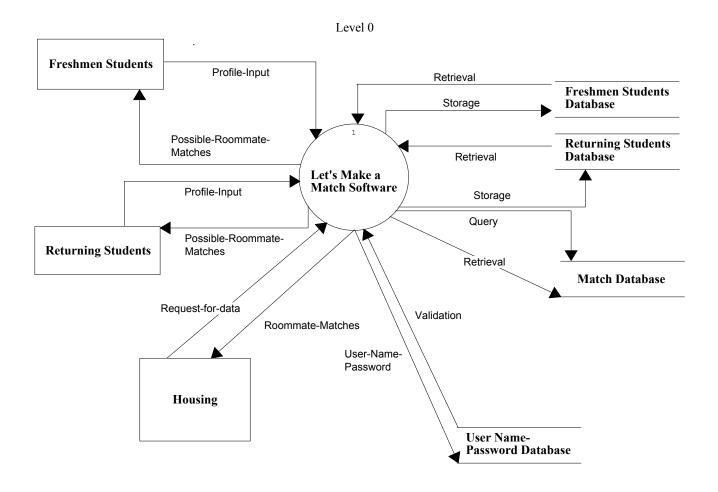
General tasks required for normal system maintenance will be handled at this screen. The administrator can reset the system or change options for the database from here. An explanation as to what each task does will also be provided to the side of any task. Once the administrator is done he/she can click the submit button and be brought back to the Administrator welcome screen.

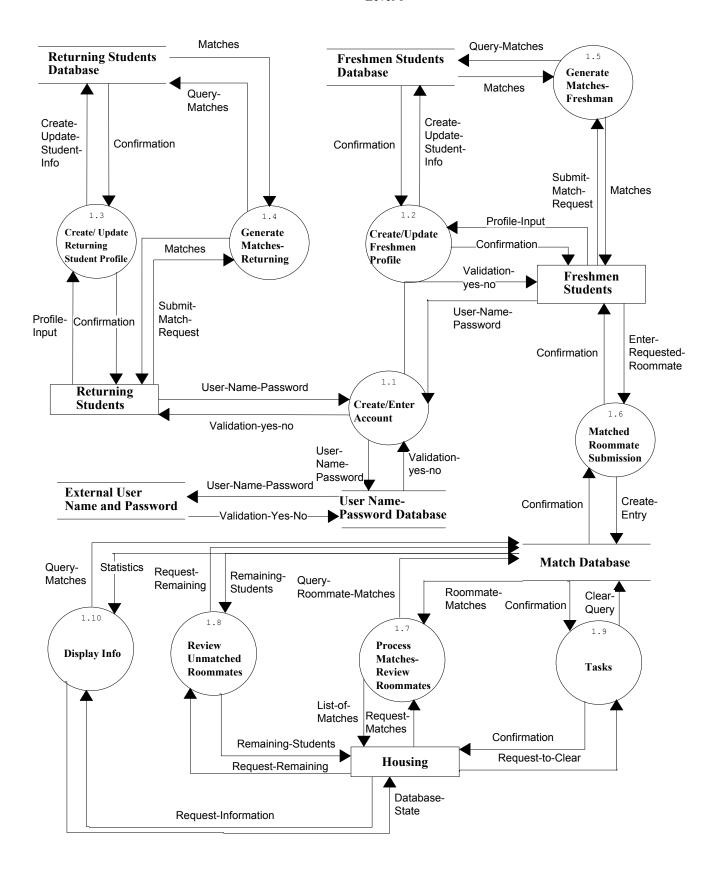
Detailed Dataflow Diagrams

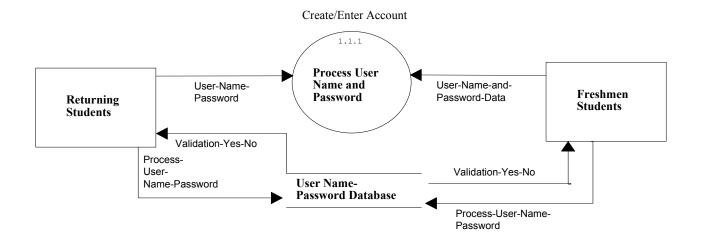
Let's Make a Match Context Diagram



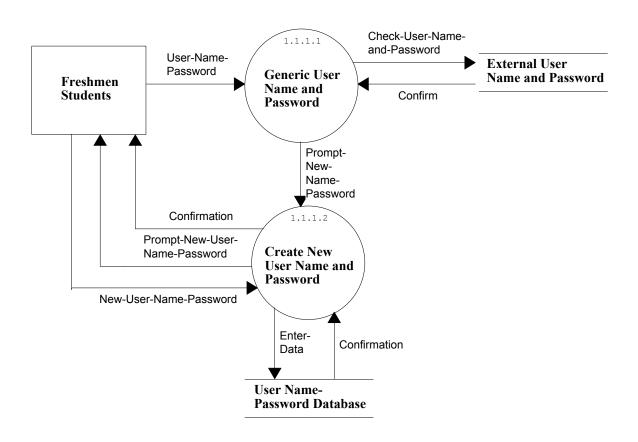
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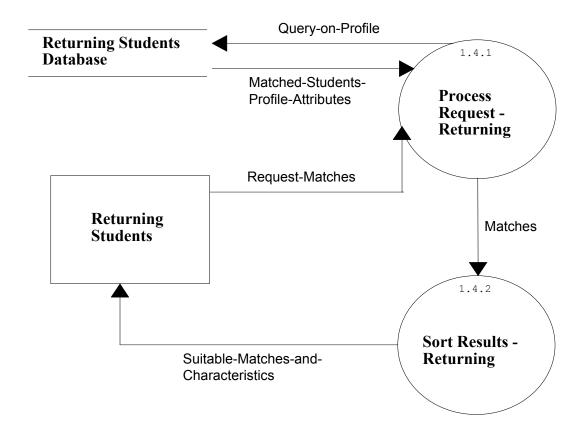


Process User Name and Password



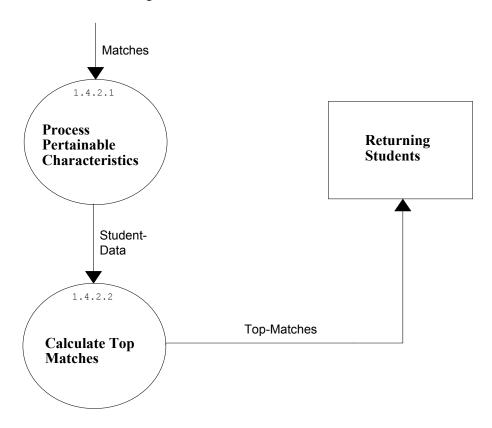
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Generate New Matches Returning

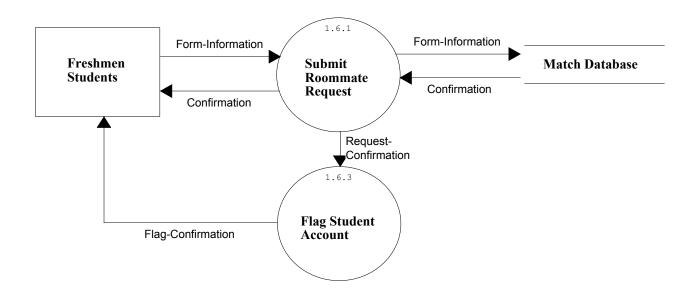


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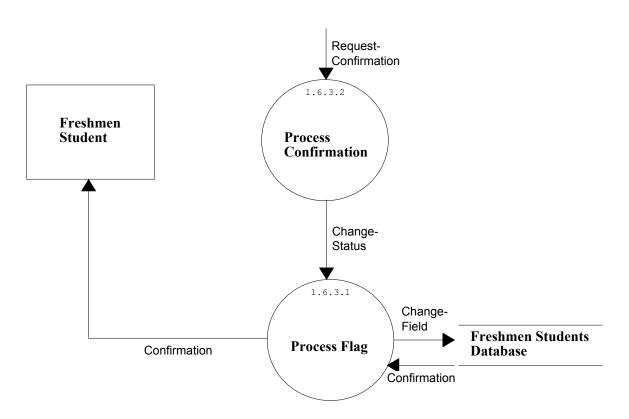
Sort Results Returning Students



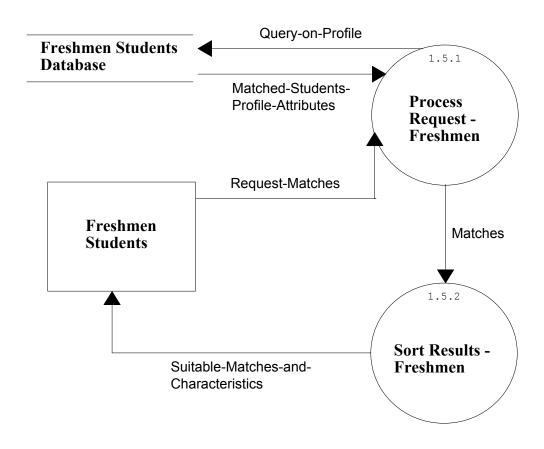
Matched Roommate Submission



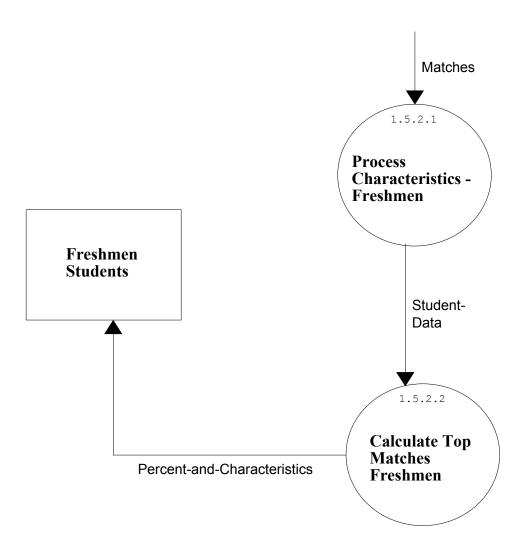
Flag Students Account



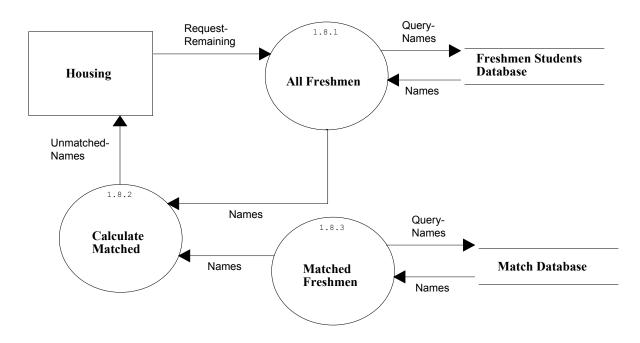
Generate Matches - Freshmen



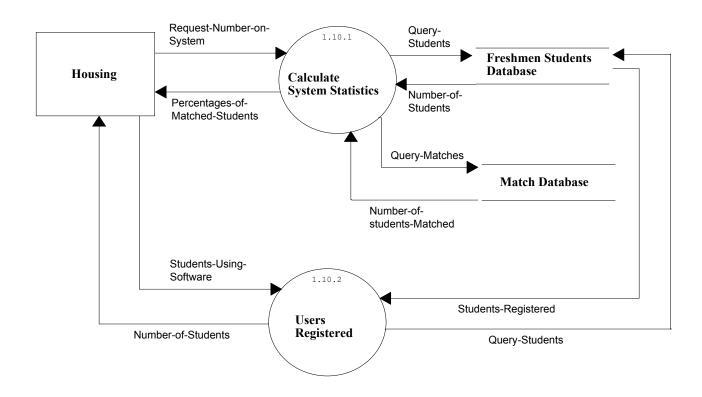
Sort Results Freshmen

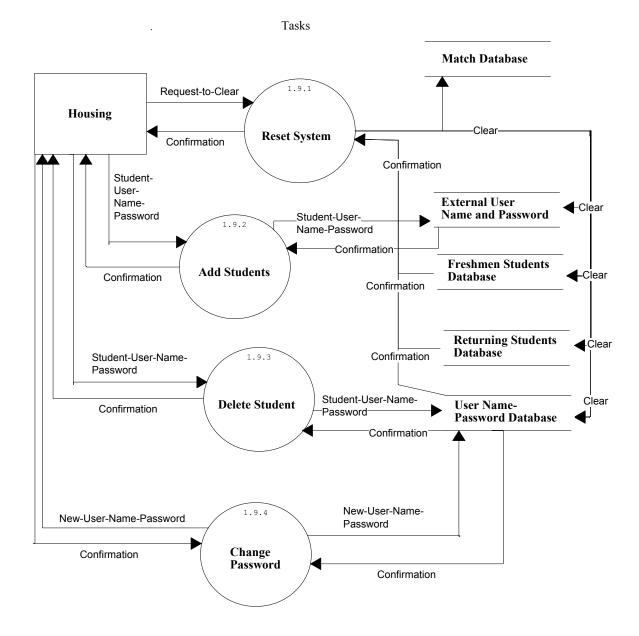


Review Unmatched Roommates



Display Info





External

```
User Name and Password
                                                             File
           Description:
                         This is the database that contain the user name and password
                         that Siena makes for all the Freshmen.
           Location:
                Process Login
                                   (1.1.1)
                          Input Flows:
                          Check-User-Name-and-Password
                          Output Flows:
                          Confirm
                Tasks
                          (1.9)
                          Input Flows:
                          Clear
                          Student-User-Name-Password
                          Output Flows:
                          Confirmation
                Level 1
                          (1)
                          Input Flows:
                          User-Name-Password
                          Output Flows:
                          Validation-yes-no
Date Last Altered: 11/24/2003
                                           Date Created: 11/24/2003
       _____
    Freshmen Students Database
                                                                      File
           Description:
                This stores the profiles and data of the freshmen students.
           Location:
                Level 1
                          (1)
                          Input Flows:
                          Create-Update-Student-Info
                          Query-Matches
                          Output Flows:
                          Confirmation
                          Matches
                Generate Matches-Freshman (1.5)
                          Input Flows:
                          Query-on-Profile
                          Output Flows:
                          Matched-Students-Profile-Attributes
                Flag Student Account
                                            (1.6.3)
                          Input Flows:
                          Change-Field
                          Output Flows:
                          Confirmation
                Let's Make a Match level 0
                                            (0)
```

```
Input Flows:
                          Storage
                          Output Flows:
                          Retrieval
                Review Unmatched Roomates (1.8)
                          Input Flows:
                          Query-Names
                          Output Flows:
                          Names
                Display Info
                                   (1.10)
                          Input Flows:
                          Query-Students
                          Query-Students
                          Output Flows:
                          Number-of-Students
                          Students-Registered
                Tasks
                          (1.9)
                          Input Flows:
                          Clear
                          Clear
                          Output Flows:
                          Confirmation
                                           Date Created: 10/24/2003
Date Last Altered: 11/24/2003
                                                             File
    Match Database
           Description:
                The database stores the students names who requested each other.
           Notes:
                There should be two names store together, the name of the student
                requesting and the name of the student requested.
           Location:
                Let's Make a Match level 0
                                            (0)
                          Input Flows:
                          Ouerv
                          Retrieval
                Level 1
                          (1)
                          Input Flows:
                          Create-Entry
                          Query-Roommate-Matches
                          Clear-Query
                          Request-Remaining
                          Query-Matches
                          Output Flows:
                          Confirmation
                          Roommate-Matches
```

Confirmation

```
Remaining-Students
                          Statistics
                Matched Roomate Submission (1.6)
                          Input Flows:
                          Form-Information
                          Output Flows:
                          Confirmation
                Review Unmatched Roomates (1.8)
                          Input Flows:
                          Query-Names
                          Output Flows:
                          Names
                Display Info
                                   (1.10)
                          Input Flows:
                          Query-Matches
                          Output Flows:
                          Number-of-students-Matched
                Tasks
                          (1.9)
Date Last Altered: 11/24/2003
                                            Date Created: 10/24/2003
    Returning Students Database
                                                                      File
           Description:
                This stores the profiles and data of the returning students.
           Location:
                Generate Matches-Returning (1.4)
                          Input Flows:
                          Query-on-Profile
                          Output Flows:
                          Matched-Students-Profile-Attributes
                Let's Make a Match level 0
                                            (0)
                          Input Flows:
                          Storage
                          Output Flows:
                          Retrieval
                Tasks
                          (1.9)
                          Input Flows:
                          Clear
                          Output Flows:
                          Confirmation
                Level 1
                          (1)
                          Input Flows:
                          Create-Update-Student-Info
                          Query-Matches
                          Output Flows:
                          Confirmation
                          Matches
```

Date Last Altered: 11/24/2003 Date Created: 10/25/2003

User Name-Password Database

File

Description:

This database stores all of the passwords and logins to all the users of the software.

Location:

Let's Make a Match level 0 (0)

Input Flows:

User-Name-Password

Output Flows:

Validation

Level 1

(1)

Input Flows:

User-Name-Password

Validation-yes-no

Output Flows:

Validation-yes-no

User-Name-Password

Create/Enter Account

(1.1)

Input Flows:

Process-User-Name-Password

Process-User-Name-Password

Output Flows:

Validation-yes-no

Validation-yes-no

<u>Process Login</u> (1.1.1)

Input Flows:

Enter-Data

Output Flows:

Confirmation

Tasks (1.9)

Input Flows:

Student-User-Name-Password

New-User-Name-Password

Clear

Output Flows:

Confirmation

Confirmation

Confirmation

Date Last Altered: 11/24/2003 Date Created: 10/24/2003

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Logical Data Dictionary

Add Students Process Description: Allows the Administrator to add a student to the password database so that they can use the system. Process #: 1.9.2 Location: (1.9)Tasks Input Flows: Student-User-Name-Password Confirmation Output Flows: Confirmation Student-User-Name-Password Date Last Altered: 11/24/2003 *Date Created:* 11/24/2003 ______ All Freshmen Process Description: This guery's the freshmen database and obtains the names of all of the students registered in the database. Process #: 1.8.1 Location: Review Unmatched Roommates (1.8) Input Flows: Request-Remaining Names Output Flows: Query-Names Names Date Last Altered: 11/24/2003 *Date Created:* 11/24/2003 Calculate Matched Process Description: This determines the names of the students that have created a profile, but have not been successfully matched. Process #: 1.8.2 Location: Review Unmatched Roommates (1.8) Input Flows: Names Names Output Flows: Unmatched-Names Date Last Altered: 11/24/2003 *Date Created:* 11/24/2003

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Calculate System Statistics

Process

Description:

This calculates statistics of the system.

Process #: 1.10.1

Process Description:

Takes the number of students that are registered and the number of students that have been matched, and returns the percentage of students that have been matched.

Location:

<u>Display Info</u> (1.10)

Input Flows:

Request-Number-on-System

Number-of-Students

Number-of-students-Matched

Output Flows:
Query-Students

Query-Matches

Percentages-of-Matched-Students

Calculate Top Matches

Process

Description:

Figures out the number of matches that will be returned to the user.

Process #: 1.4.2.2

Process Description:

This takes all of the resulting students and returns to the users screen, the specified number of matches as defined by the client, like a top % or a specified number.

Location:

Sort Results Returning Students (1.4.2)

Input Flows:

Student-Data

Output Flows:

Top-Matches

Calculate Top Matches Freshmen

Process

Description:

Figures out the number of matches that will be returned to the user.

Process #: 1.5.2.2

Process Description:

This takes all of the resulting students and returns to the users screen, the specified number of matches as defined by the client, like a top % or a specified number.

Location:

Sort Results - Freshmen (1.5.2)

Input Flows: Student-Data

Output Flows:

Percent-and-Characteristics

Change-Field

Data Flow

Description:

Changes the flag field so that this person cannot be matched with anyone else.

Location:

Flag Student Account (1.6.3)

Source: Process Flag (Process)

Dest: Freshmen Students Database (File)

.....

Change-Status

Data Flow

Description:

This changes the status of the user so they cannot be searched.

Location:

Flag Student Account (1.6.3)

Source: Process Confirmation (Process)

Change Password

Process

Description:

Allows the Administrator to change a users password.

Process #: 1.9.4
Process Description:

If a student cannot remember his or her password, and cannot obtain it, the administrator can change it for them.

Location:

<u>Tasks</u> (1.9)

Input Flows:
Confirmation
Confirmation
Output Flows:

New-User-Name-Password
New-User-Name-Password

Check-User-Name-and-Password

Data Flow

Description:

This looks up the user entered data to be sure that it is in the database

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```
Location:
                Process Login
                                   (1.1.1)
                          Source: Generic login (Process)
                          Dest:
                                  External User Name and Password (File)
                                           Date Created: 11/24/2003
Date Last Altered: 11/24/2003
    Check Password
                                                            Process
           Description:
                Checks the Students Password.
           Process #:
                         1.1.2
           Process Description:
                Checks the users password and login in the password database and sees
                if it is equal to a row stored in the database.
Date Last Altered: 10/25/2003
                                           Date Created: 10/25/2003
                                                             Data Flow
    Clear
           Description:
                Clears all of the information out of the databases
           Location:
                Tasks
                          (1.9)
                          Source: Reset System (Process)
                                  External User Name and Password (File)
                          Dest:
                          Source: Reset System (Process)
                                  Freshmen Students Database (File)
                          Dest:
                          Source: Reset System (Process)
                                  Returning Students Database (File)
                          Dest:
                          Source: Reset System (Process)
                          Dest: Freshmen Students Database (File)
                          Source: Reset System (Process)
                                  User Name-Password Database (File)
                          Dest:
Date Last Altered: 11/24/2003
                                           Date Created: 11/24/2003
    Clear-Query
                                                            Data Flow
           Description:
                SQL Code
           Location:
                Level 1
                          (1)
                          Source: Tasks (Process)
                                  Match Database (File)
                          Dest:
Date Last Altered: 11/24/2003
                                           Date Created: 10/29/2003
                                                             Data Flow
    Confirm
           Description:
                Yes or No
           Notes:
```

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```
This makes sure that the student is actual a freshmen at Siena.
           Location:
               Process Login
                                  (1.1.1)
                         Source: External User Name and Password (File)
                                  Generic login (Process)
                         Dest:
Date Last Altered: 11/24/2003
                                           Date Created: 11/24/2003
                                                            Data Flow
    Confirmation
           Description:
               Success or Failure
           Location:
               Level 1
                          (1)
                         Source: Create/ Update Returning Student Profile (Process)
                                  Returning Students (Source/Sink)
                         Dest:
                         Source: Freshmen Students Database (File)
                                  Create/Update Freshmen Profile (Process)
                         Dest:
                         Source: Create/Update Freshmen Profile (Process)
                                  Freshmen Students (Source/Sink)
                         Dest:
                         Source: Match Database (File)
                         Dest:
                                  Matched Roommate Submission (Process)
                         Source: Matched Roommate Submission (Process)
                                  Freshmen Students (Source/Sink)
                         Dest:
               Process Login
                                  (1.1.1)
                         Source: User Name-Password Database (File)
                                  Create New User Name and Password (Process)
                         Dest:
                         Source: Create New User Name and Password (Process)
                                  Freshmen Students (Source/Sink)
                         Dest:
               Matched Roomate Submission (1.6)
                         Source: Match Database (File)
                                  Submit Roommate Request (Process)
                         Dest:
                         Source: Submit Roommate Request (Process)
                                  Freshmen Students (Source/Sink)
                         Dest:
                                           (1.6.3)
               Flag Student Account
                         Source: Freshmen Students Database (File)
                                  Process Flag (Process)
                         Dest:
                         Source: Process Flag (Process)
                                  Freshmen Student (Source/Sink)
                         Dest:
               Level 1
                          (1)
                         Source: Returning Students Database (File)
                                  Create/ Update Returning Student Profile (Process)
                         Dest:
                         Source: Match Database (File)
                                  Tasks (Process)
                         Dest:
                         Source: Tasks (Process)
                                  Housing (Source/Sink)
                         Dest:
               Tasks
                          (1.9)
                         Source: Delete Student (Process)
```

```
Source: Add Students (Process)
                                 Housing (Source/Sink)
                        Dest:
                        Source: Reset System (Process)
                                 Housing (Source/Sink)
                        Dest:
                        Source: User Name-Password Database (File)
                                 Delete Student (Process)
                        Dest:
                        Source: User Name-Password Database (File)
                                 Reset System (Process)
                        Dest:
                        Source: External User Name and Password (File)
                                 Add Students (Process)
                        Dest:
                        Source: Housing (Source/Sink)
                                 Change Password (Process)
                        Dest:
                        Source: User Name-Password Database (File)
                                 Change Password (Process)
                        Dest:
                        Source: Freshmen Students Database (File)
                                 Reset System (Process)
                        Dest:
                        Source: Returning Students Database (File)
                                 Reset System (Process)
                        Dest:
                                         Date Created: 10/24/2003
Date Last Altered: 11/24/2003
                                                         Data Flow
    Create-Entry
          Description:
               SQL Code - creates a new entry in the database
          Location:
               Level 1
                         (1)
                        Source: Matched Roommate Submission (Process)
                                 Match Database (File)
                        Dest:
Date Last Altered: 11/24/2003
                                         Date Created: 10/24/2003
    Create-Update-Student-Info
                                                                  Data Flow
          Description:
               Preferences chosen from the pull down menu, on the user profile form
          Location:
               Level 1
                         (1)
                        Source: Create/Update Freshmen Profile (Process)
                                 Freshmen Students Database (File)
                        Dest:
                        Source: Create/ Update Returning Student Profile (Process)
                                 Returning Students Database (File)
                        Dest:
                                         Date Created: 10/24/2003
Date Last Altered: 11/24/2003
_____
    Create New User Name and Password
                                                                  Process
          Description:
               Prompts the user to enter a new login and password.
          Process #:
                        1.1.1.2
          Process Description:
```

Housing (Source/Sink)

Dest:

This process takes the password that the user enters and stores it in the password database so the next time the user logs in they can use their new name.

```
Location:
```

Process Login (1.1.1)

Input Flows:

Prompt-New-Name-Password

Confirmation

New-User-Name-Password

Output Flows:

Prompt-New-User-Name-Password

Enter-Data
Confirmation

Create/ Update Returning Student Profile

Process

Description:

Allows students to input their profile.

Process #: 1.3

Process Description:

This provides the student with a form to input their personal profile characteristics. It will be a list of questions for them to answer, and their answers will be stored in a database so that other students can search for them and they can be searched.

Location:

Level 1

(1)

Input Flows:

Profile-Input

Confirmation

Output Flows:

Confirmation

Create/Enter Account

Process

Description:

Process the password that allows a student to enter the system.

Process #: 1.1

Process Description:

This allows the student to enter their password to enter the software.

The first time a freshmen student enters, they have to change their login and password.

Location:

Level 1

(1) *Input Flows:*

input Flows.

<u>User-Name-Password</u> Validation-ves-no User-Name-Password
Output Flows:
User-Name-Password
Validation-yes-no
Validation-yes-no

Pare Created. 10/25/2005

Create/Update Freshmen Profile

Process

Description:

Allows freshmen Students to enter their profile.

Process #: 1.2

Process Description:

This provides the student with a form to input their personal profile characteristics. It will be a list of questions for them to answer, and their answers will be stored in a database so that other students can search for them and they can be searched.

Location:

Level 1

(1)

Input Flows:

Confirmation

Profile-Input

Output Flows:

Create-Update-Student-Info

Confirmation

Database-State

Data Flow

Description:

Returns the percentages of the students that have put their profiles up. It also shows the number of students that have been matched up.

Location:

Level 1

(1)

Source: Display Info (Process)

Dest: Housing (Source/Sink)

Date Last Altered: 11/24/2003 Date Created: 11/24/2003

Delete Student

Process

Description:

Allows the administrator to delete a student if they are creating a problem in the system or are not supposed to be in it.

Process #: 1.

Location:

1.9.3

<u>Tasks</u>

(1.9)

Input Flows:

Student-User-Name-Password

Confirmation

```
Confirmation
                         Student-User-Name-Password
Date Last Altered: 11/24/2003
                                          Date Created: 11/24/2003
-----
    Display Info
                                                            Process
           Description:
               This allows housing to see statistics of the database and also do
               maintenance such as changing a lost password, and viewing the
           Process #:
                         1.10
           Location:
               Level 1
                          (1)
                         Input Flows:
                         Request-Information
                         Statistics
                         Output Flows:
                         Database-State
                         Query-Matches
Date Last Altered: 12/1/2003
                                                   Date Created: 11/24/2003
    Enter-Data
                                                            Data Flow
           Description:
               This saves the new user name and password in the database
           Location:
               Process Login
                                   (1.1.1)
                         Source: Create New User Name and Password (Process)
                                  User Name-Password Database (File)
Date Last Altered: 11/24/2003
                                          Date Created: 10/25/2003
    Enter-Requested-Roommate
                                                                    Data Flow
           Description:
               User Input (name)
           Location:
               Level 1
                          (1)
                         Source: Freshmen Students (Source/Sink)
                                  Matched Roommate Submission (Process)
                         Dest:
Date Last Altered: 11/24/2003
                                          Date Created: 10/24/2003
    External User Name and Password
                                                                    File
           Description:
               This is the database that contain the user name and password that Siena
               makes for all the Freshmen.
           Location:
               Process Login (1.1.1)
                         Input Flows:
```

Output Flows:

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	Check-User-Name-and-Password			
	Output Flows:			
Taalsa	Confirm			
<u>Tasks</u>	(1.9)			
	Input Flows: Clear			
	Student-User-Name-Password			
	Output Flows:			
	Confirmation			
Level 1	(1)			
<u> </u>	Input Flows:			
	User-Name-Password			
	Output Flows:			
	Validation-yes-no			
Date Last Altered: 11/24/20	003			
Flag-Confirmation		Data Flow		
Description:				
<u>*</u>	ce or Failure			
Location:				
Matched I	Roommate Submission (1.6)			
	Source: Flag Student Account (Pr			
D 7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dest: Freshmen Students (Source			
Date Last Altered: 11/24/20 	003 Date Created: 10	0/25/2003 		
Flag Student Account		Process		
Description:				
Makes it k	known that this student has a roomman	te already.		
Process #:	1.6.3			
Process Descri	iption:			
	udent has requested a roommate their	account is flagged so		
that when other students are looking for roommates will not get them				
returned.	C .	C		
Location:				
Matched I	Roommate Submission (1.6)			
	Input Flows:			
	Request-Confirmation			
	Output Flows:			
	<u>Flag-Confirmation</u>			
Date Last Altered: 11/24/20	003 Date Created: 10	0/25/2003		
Form-Information		Data Flow		
Description:				
	ame and requested roommates name			
Location:				
	Roommate Submission (1.6)			

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Source: Freshmen Students (Source/Sink)

Dest: Submit Roommate Request (Process)

Source: Submit Roommate Request (Process)

Dest: Match Database (File)

Freshmen Students

Source/Sink

Description: These are the students that are looking for students to live with

their freshmen year

Location:

FE LMM Context Diagram (CONTEXT)

Input Flows:

Student-Matches-Freshmen

Output Flows:

Freshmen-Student-Information

Freshmen-Student-Information

Data Flow

Description:

Preferences chosen from pull down menu, on the user profile

Location:

<u>FE LMM Context Diagram</u> (CONTEXT)

Source: Freshman Students (Source/Sink)

Dest: Let's Make a Match (Process)

Freshmen Student

Source/Sink

Location:

Flag Student Account (1.6.3)

*Input Flows:*Confirmation

Freshmen Students

Source/Sink

Description:

These are the students that are looking for students to live with their freshmen year

Location:

Let's Make a Match level 0 (0)

Input Flows:

Possible-Roommate-Matches

Output Flows:

Profile-Input

Level 1 (1)

Input Flows:

Confirmation

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	<u>Validation-yes-no</u>	
	<u>Matches</u>	
	<u>Confirmation</u>	
	Output Flows:	
	<u>Profile-Input</u>	
	Submit-Match-Request	
	Enter-Requested-Roommate	
	<u>User-Name-Password</u>	
<u>Generate</u>	Matches-Freshman (1.5)	
	Input Flows:	
	Suitable-Matches-and-Characteristics	
	Output Flows:	
	Request-Matches	
Sort Resu	<u>lts -Freshmen</u> (1.5.2)	
	Input Flows:	
	Percent-and-Characteristics	
<u>Create/En</u>	tter Account (1.1)	
	Input Flows:	
	<u>Validation-yes-no</u>	
	Output Flows:	
	Login-Data	
	Process-User-Name-Password	
Process L		
	Input Flows:	
	Prompt-New-User-Name-Password	
	Confirmation	
	Output Flows:	
	<u>User-Name-Password</u>	
26.1.1	New-User-Name-Password	
<u>Matched</u>	Roomate Submission (1.6)	
	Input Flows:	
	Confirmation	
	Flag-Confirmation	
	Output Flows:	
D . I	Form-Information	
Date Last Altered: 11/24/20	Date Created: 10/25/2003	
Freshmen Students Da	tahase	File
Description:		110
-	es the profiles and data of the freshmen students.	
Location:	- · · · · · · · · · · · · · · · · · · ·	
Level 1	(1)	
<u> </u>	Input Flows:	
	Create-Update-Student-Info	
	Query-Matches	
	Output Flows:	

```
Matches
                Generate Matches-Freshman (1.5)
                          Input Flows:
                          Query-on-Profile
                          Output Flows:
                          Matched-Students-Profile-Attributes
                Flag Student Account
                                             (1.6.3)
                          Input Flows:
                          Change-Field
                          Output Flows:
                          Confirmation
                Let's Make a Match level 0
                                            (0)
                          Input Flows:
                          Storage
                          Output Flows:
                          Retrieval
                Review Unmatched Roommates (1.8)
                          Input Flows:
                          Query-Names
                          Output Flows:
                          Names
                Display Info
                                    (1.10)
                          Input Flows:
                          Query-Students
                          Query-Students
                          Output Flows:
                          Number-of-Students
                          Students-Registered
                           (1.9)
                Tasks
                          Input Flows:
                          Clear
                          Clear
                          Output Flows:
                          Confirmation
Date Last Altered: 11/24/2003
                                            Date Created: 10/24/2003
    Generate Matches-Freshman
                                                                       Process
           Description:
                Returns potential roommate matches.
           Process #:
                          1.5
           Process Description:
                This returns to the Freshmen student a list of potential roommate
                matches and their characteristics.
           Location:
                Level 1
                           (1)
```

Confirmation

Input Flows: Submit-Match-Request Matches Output Flows: Matches **Query-Matches** *Date Last Altered:* 10/25/2003 *Date Created:* 10/24/2003 Generate Matches-Returning Process Description: Returns potential roommate matches. Process #: 1.4 Process Description: This returns to the returning student a list of potential roommate matches and their characteristics Location: Level 1 (1)Input Flows: Submit-Match-Request Matches Output Flows: Matches **Query-Matches** Date Last Altered: 10/25/2003 *Date Created:* 10/24/2003 Generic Username and Password **Process** Description: When students are given an account they are given a generic user name and passwords, they are then prompted when they first login, to change it Process #: 1.1.1.1 Process Description: This Process detects the generic password and forces the user to create a new login and password. Location: Process Login (1.1.1)Input Flows: User-Name-Password Confirm Output Flows: Prompt-New-Name-Password Check-User-Name-and-Password *Date Created:* 10/25/2003 Date Last Altered: 10/25/2003 Get Roommate Matches Process Description:

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Returns a listing of roommates. Process #: 1.6.2 Process Description: When housing queries the database, they receive a listing of all of the students that requested each other. Date Last Altered: 10/25/2003 *Date Created:* 10/25/2003 ______ Source/Sink Housing Description: Administrator of the Let's Make A Match Software Location: FE LMM Context Diagram (CONTEXT) Input Flows: Roommates Let's Make a Match level 0 (0)Input Flows: Roommate-Matches Output Flows: Request-for-data Level 1 (1)Input Flows: List-of-Matches Confirmation Remaining-Students Database-State Output Flows: Request-Matches Request-to-Clear Request-Remaining **Request-Information** Review Unmatched Roommates (1.8) Input Flows: **Unmatched-Names** Output Flows: Request-Remaining (1.10)Display Info Input Flows:

Percentages-of-Matched-Students

Number-of-Students

Output Flows:

Request-Number-on-System

Students-Using-Software

Tasks (1.9)

Input Flows:

Confirmation

Confirmation

Confirmation

New-User-Name-Password

Output Flows:

Student-User-Name-Password

Student-User-Name-Password

Request-to-Clear Confirmation

Let's Make a Match

Process

Description:

Let's make A Match software controls all of the data entry and reporting.

Process #:

0

Process Description:

Controls all of the functions preformed and results in the matching of potential roommates.

Location:

FE LMM Context Diagram (CONTEXT)

Input Flows:

Freshmen-Student-Information

Returning-Student-Information

Output Flows:

Student-Matches-Freshmen

Student-Matches-Returning

Roommates

Let's Make a Match Software

Process

Description:

Let's make A Match software controls all of the data entry and reporting.

Process #:

Process Description:

Controls all of the functions preformed and results in the matching of potential roommates.

Location:

<u>Let's Make a Match level 0</u> (0)

Input Flows:

Profile-Input

Retrieval

Request-for-data

Profile-Input

Retrieval

Validation

Output Flows:

Possible-Roommate-Matches Storage Roommate-Matches Query Possible-Roommate-Matches **Storage** User-Name-Password Retrieval Date Last Altered: 10/25/2003 *Date Created:* 10/24/2003 List-of-Matches Data Flow Description: List of names of students that requested each other Location: Level 1 (1)Source: Process Matches-Review Roommates (Process) Dest: Housing (Source/Sink) ______ User-Name-And-Password-Data Data Flow Description: User Name and Password Location: Create/Enter Account (1.1)Source: Freshmen Students (Source/Sink) Dest: Process User Name and Password (Process) *Date Created:* 10/25/2003 Date Last Altered: 10/25/2003 User-Name-and -Password Data Flow Description: User Name and Password Date Last Altered: 11/24/2003 *Date Created:* 10/24/2003 Match-Remaining Data Flow Description: Request to match and return the remaining students that have not been matched *Date Last Altered:* 11/24/2003 *Date Created:* 11/24/2003 Match Database File Description: The database stores the students names who requested each other. There should be two names store together, the name of the student requesting and the name of the student requested. Location: Let's Make a Match level 0 (0)

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```
Input Flows:
                         Query
                         Retrieval
               Level 1
                          (1)
                         Input Flows:
                         Create-Entry
                         Query-Roommate-Matches
                         Clear-Query
                         Request-Remaining
                         Query-Matches
                         Output Flows:
                         Confirmation
                         Roommate-Matches
                         Confirmation
                         Remaining-Students
                         Statistics
               Matched Roommate Submission (1.6)
                         Input Flows:
                         Form-Information
                         Output Flows:
                         Confirmation
               Review Unmatched Roommates (1.8)
                         Input Flows:
                         Query-Names
                         Output Flows:
                         Names
               Display Info
                                  (1.10)
                         Input Flows:
                         Query-Matches
                         Output Flows:
                         Number-of-students-Matched
                          (1.9)
               Tasks
Date Last Altered: 11/24/2003
                                          Date Created: 10/24/2003
    Matched-Students-Profile-Attributes
                                                                    Data Flow
           Description:
               Raw list of attributes on potential roommates
           Location:
               Generate Matches-Returning (1.4)
                         Source: Returning Students Database (File)
                                  Process Request -Returning (Process)
                         Dest:
               Generate Matches-Freshman (1.5)
                         Source: Freshmen Students Database (File)
                         Dest:
                                  Process Request -Freshmen (Process)
                                         Date Created: 10/25/2003
Date Last Altered: 11/24/2003
```

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```
Matched Freshmen
                                                                       Process
           Description:
                Obtains the names of the students that have been successfully matched.
           Process #:
                          1.8.3
           Location:
                Review Unmatched Roommates (1.8)
                          Input Flows:
                          Names
                          Output Flows:
                          Query-Names
                          Names
Date Last Altered: 11/24/2003
                                            Date Created: 11/24/2003
    Matched Roommate Submission
                                                                       Process
           Description:
                Students fill out a form requesting a certain roommate.
           Process #:
                          1.6
           Process Description:
                Students fill out a form requesting who they want to live with and this is
                stored in another database that housing can access. It will sent out a
                confirmation when they request another roommate and when a
                roommate has requested them.
           Location:
                Level 1
                           (1)
                          Input Flows:
                          Enter-Requested-Roommate
                          Confirmation
                          Output Flows:
                          Create-Entry
                          Confirmation
Date Last Altered: 11/24/2003
                                            Date Created: 10/24/2003
    Matches
                                                              Data Flow
           Description:
                Raw list of attributes on potential roommates
           Location:
                Level 1
                           (1)
                          Source: Generate Matches-Returning (Process)
                                   Returning Students (Source/Sink)
                          Dest:
                          Source: Generate Matches-Freshman (Process)
                                   Freshmen Students (Source/Sink)
                          Dest:
                          Source: Freshmen Students Database (File)
                                   Generate Matches-Freshman (Process)
                          Dest:
                Sort Results -Freshmen
                                            (1.5.2)
                          Source: *** Not on Diagram ***
                                   Process Characteristics - Freshmen (Process)
                          Dest:
```

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```
Generate Matches-Freshman (1.5)
                         Source: Process Request - Freshmen (Process)
                                  Sort Results - Freshmen (Process)
                         Dest:
               Generate Matches-Returning (1.4)
                         Source: Process Request - Returning (Process)
                                  Sort Results - Returning (Process)
                         Dest:
               Sort Results Returning Students (1.4.2)
                         Source: *** Not on Diagram ***
                                  Process Characteristics (Process)
                         Dest:
               Level 1
                          (1)
                         Source: Returning Students Database (File)
                                  Generate Matches-Returning (Process)
                         Dest:
                                    Date Created: 10/24/2003
Date Last Altered: 11/24/2003
    Names
                                                           Data Flow
           Description:
               Names of students
           Location:
               Review Unmatched Roommates (1.8)
                         Source: Freshmen Students Database (File)
                                  All Freshmen (Process)
                         Dest:
                         Source: Match Database (File)
                         Dest:
                                  Matched Freshmen (Process)
                         Source: All Freshmen (Process)
                                  Calculate Matched (Process)
                         Dest:
                         Source: Matched Freshmen (Process)
                                  Calculate Matched (Process)
                         Dest:
Date Last Altered: 11/24/2003
                                          Date Created: 11/24/2003
    New-User-Name-Password
                                                                    Data Flow
           Description:
               User name and Password
           Location:
               Process Login
                                  (1.1.1)
                         Source: Freshmen Students (Source/Sink)
                                  Create New User Name and Password (Process)
                         Dest:
                         (1.9)
               Tasks
                         Source: Change Password (Process)
                         Dest:
                                  Housing (Source/Sink)
                         Source: Change Password (Process)
                                  User Name-Password Database (File)
                         Dest:
Date Last Altered: 11/24/2003
                                          Date Created: 10/29/2003
    Number-of-Students
                                                                    Data Flow
           Description:
               The number of students that have created their profile
```

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```
Location:
               Display Info
                                 (1.10)
                        Source: Freshmen Students Database (File)
                        Dest:
                                 Calculate System Statistics (Process)
                        Source: Users Registered (Process)
                                 Housing (Source/Sink)
                        Dest:
Date Last Altered: 11/24/2003
                                        Date Created: 11/24/2003
    Number-of-students-Matched
                                                                  Data Flow
          Description:
                Gives the number of successful matches there are stored in the
                database.
          Location:
               Display Info
                                 (1.10)
                        Source: Match Database (File)
                                Calculate System Statistics (Process)
                        Dest:
                                         Date Created: 11/24/2003
Date Last Altered: 11/24/2003
                                                                  Data Flow
    Percent-and-Characteristics
          Description:
               Gives the best roommate matches and their characteristics.
          Location:
               Sort Results -Freshmen
                                         (1.5.2)
                        Source: Calculate Top Matches Freshmen (Process)
                        Dest: Freshmen Students (Source/Sink)
Date Last Altered: 12/1/2003
                                                 Date Created: 12/1/2003
Percentages-of-Matched-Students
                                                                  Data Flow
          Description:
               In percent form, the number of students that have been matched up.
          Location:
               Display Info
                                 (1.10)
                        Source: Calculate System Statistics (Process)
                                 Housing (Source/Sink)
                        Dest:
Date Last Altered: 11/24/2003
                                        Date Created: 11/24/2003
                                                                  Data Flow
    Possible-Roommate-Matches
          Description:
               List of possible roommates and some information about them
          Location:
               Let's Make a Match level 0
                                         (0)
                        Source: Let's Make a Match Software (Process)
                                 Returning Students (Source/Sink)
                        Dest:
                        Source: Let's Make a Match Software (Process)
                                Freshmen Students (Source/Sink)
                        Dest:
                                         Date Created: 10/29/2003
Date Last Altered: 11/24/2003
```

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Process-User-Name-Password Data Flow Description: **SQL** Query Location: Create/Enter Account (1.1)Source: Returning Students (Source/Sink) User Name-Password Database (File) Dest: Source: Freshmen Students (Source/Sink) User Name-Password Database (File) *Date Created:* 11/24/2003 Date Last Altered: 11/24/2003 Process Confirmation Process Description: Confirmation tells the system that the Students account has to be Process #: 1.6.3.2 Process Description: This realizes that the student has request a roommate and sends a message to allow the account to be flagged. Location: Flag Student Account (1.6.3)Input Flows: Request-Confirmation Output Flows: Change-Status Date Last Altered: 10/25/2003 *Date Created:* 10/25/2003 Process Flag **Process** Description: Changes the status of the students account. Process #: 1.6.3.1 *Process Description:* This changes the status of the students account by changing a field that allows the student to still be searched, so they can communicate with other prospective student, but not room with them. Location: Flag Student Account (1.6.3)Input Flows: Change-Status Confirmation Output Flows: Change-Field Confirmation Date Last Altered: 10/25/2003 *Date Created:* 10/25/2003

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Process Matches-Review Roommates

Process

Description:

Returns a listing of roommates.

Process #:

1.7

Process Description:

When housing requests a listing of roommates, they database is queried and they get a listing of roommates that requested each other.

Location:

Level 1

(1) Input Flows:

Dagwagt Mataba

Request-Matches

Roommate-Matches

Output Flows:

List-of-Matches

Query-Roommate-Matches

Date Last Altered: 11/24/2003

Date Created: 10/25/2003

Process Characteristics

Process

Description:

Sorts out matched Returning students profile data.

Process #: 1.4.2.1

Process Description:

This takes the resulting query and will sort out only the fields necessary for the user to see about their potential matches. For example, it will not display personal information about the match.

Location:

Sort Results Returning Students (1.4.2)

Input Flows:

Matches

Output Flows:

Student-Data

Date Last Altered: 10/25/2003

Date Created: 10/25/2003

Process Characteristics -Freshmen

Process

Description:

Sorts out matched Freshmen students profile data.

Process #: 1.5.2.1

Process Description:

This takes the resulting query and will sort out only the fields for the User to see about their potential matches. For example, it will not display personal information about the match.

Location:

Sort Results - Freshmen (1.5.2)

Input Flows:

Matches

Output Flows:

Student-Data

Process Request -Freshmen

Process

Description:

Queries the database.

Process #: 1.5.1

Process Description:

Queries the database on the variables that are equal and returns a list of all of the matches.

Location:

Generate Matches-Freshman (1.5)

Input Flows:

Matched-Students-Profile-Attributes

Request-Matches
Output Flows:

Matches

Query-on-Profile

Process Request -Returning

Process

Description:

Queries the database.

Process #: 1.4.1

Process Description:

Queries the database on the variables that are equal and returns a list of all of the matches.

Location:

Generate Matches-Returning (1.4)

Input Flows:

Matched-Students-Profile-Attributes

Request-Matches
Output Flows:

Matches

Query-on-Profile

Process User Name and Password

Process

Description:

Checks the Students user name and password.

Process #: 1.1.1

Process Description:

Check the users login and then if is not a generic login, then check the password.

Location:

Create/Enter Account (1.1)

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```
Input Flows:
                      User-Name-Password
                      Login-Data
Date Last Altered: 11/24/2003
                                     Date Created: 10/25/2003
______
    Profile-Input
                                                    Data Flow
         Description:
             Preferences chosen form the pull down menu on the user profile form
         Location:
             Let's Make a Match level 0
                                     (0)
                      Source: Freshmen Students (Source/Sink)
                            Let's Make a Match Software (Process)
                      Dest:
                      Source: Returning Students (Source/Sink)
                             Let's Make a Match Software (Process)
                      Dest:
             Level 1
                      (1)
                      Source: Returning Students (Source/Sink)
                      Dest:
                             Create/ Update Returning Student Profile (Process)
                      Source: Freshmen Students (Source/Sink)
                             Create/Update Freshmen Profile (Process)
                      Dest:
                                    Date Created: 10/24/2003
Date Last Altered: 11/24/2003
______
    Prompt-New-Name-Password
                                                           Data Flow
         Description:
             This prompts the user to change their user name and password if they
             enter their Siena created password.
         Location:
             Process Login
                              (1.1.1)
                      Source: Generic login (Process)
                      Dest:
                             Create New User Name and Password (Process)
                                    Date Created: 10/25/2003
Date Last Altered: 11/24/2003
______
    Prompt-New-User-Name-Password
                                                           Data Flow
         Description:
             A New Window appears to enter data (code)
         Location:
             Process Login
                              (1.1.1)
                      Source: Create New User Name and Password (Process)
                      Dest: Freshmen Students (Source/Sink)
Date Last Altered: 11/24/2003
                                    Date Created: 11/24/2003
                                                    Data Flow
   Query
         Description:
             SQL Code
         Location:
             Let's Make a Match level 0 (0)
                      Source: Let's Make a Match Software (Process)
```

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Date Last Altered: 11/24/2003 *Date Created:* 10/24/2003 Data Flow Query-Matches Description: **SOL Code** Location: Level 1 (1)Source: Generate Matches-Freshman (Process) Dest: Freshmen Students Database (File) Source: Generate Matches-Returning (Process) Returning Students Database (File) Dest: Display Info (1.10)Source: Calculate System Statistics (Process) Match Database (File) Dest: Level 1 (1)Source: Display Info (Process) Match Database (File) Dest: Date Last Altered: 11/24/2003 *Date Created:* 10/24/2003 Query-Names Data Flow Description: Gets the names of the all freshmen that have created profiles Location: Review Unmatched Roommates (1.8) Source: All Freshmen (Process) Freshmen Students Database (File) Dest: Source: Matched Freshmen (Process) Match Database (File) Dest: *Date Created:* 11/24/2003 Date Last Altered: 11/24/2003 ______ Query-on-Profile Data Flow Description: **SOL Code** Location: Generate Matches-Returning (1.4) Source: Process Request - Returning (Process) Dest: Returning Students Database (File) Generate Matches-Freshman (1.5) Source: Process Request -Freshmen (Process) Freshmen Students Database (File) Dest: *Date Created:* 10/25/2003 Date Last Altered: 11/24/2003

Match Database (File)

Dest:

Query-Roommate-Matches

Data Flow

```
Description:
              SQL Code
          Location:
              Level 1
                       (1)
                       Source: Process Matches-Review Roommates (Process)
                               Match Database (File)
                       Dest:
Date Last Altered: 11/24/2003
                                      Date Created: 10/25/2003
                                                              Data Flow
    Query-Students
          Description:
              SOL Code
          Location:
                               (1.10)
              Display Info
                       Source: Calculate System Statistics (Process)
                               Freshmen Students Database (File)
                       Dest:
                       Source: Users Registered (Process)
                               Freshmen Students Database (File)
                       Dest:
                                      Date Created: 11/24/2003
Date Last Altered: 11/24/2003
______
    Remaining-Matches
                                                              Data Flow
          Description:
              List of students that did not want to participate in the online software.
              Also it includes students that were not successfully matched.
Date Last Altered: 11/24/2003
                                      Date Created: 11/24/2003
______
    Remaining-Students
                                                              Data Flow
          Description:
              List of students that made a profile, but did not find roommates
          Location:
              Level 1
                       (1)
                       Source: Match Database (File)
                               Review Unmatched Roommates (Process)
                       Dest:
                       Source: Review Unmatched Roommates (Process)
                               Housing (Source/Sink)
                       Dest:
Date Last Altered: 11/24/2003
                                      Date Created: 11/24/2003
    Request-Confirmation
                                                      Data Flow
          Description:
              Acceptance
          Location:
              Matched Roommate Submission (1.6)
                       Source: Submit Roommate Request (Process)
                               Flag Student Account (Process)
                       Dest:
              Flag Student Account
                                       (1.6.3)
                       Source: *** Not on Diagram ***
                       Dest:
                               Process Confirmation (Process)
```

Date Last Altered: 11/24/2003	Date Created: 10/25/2003
Request-for-data Description: Button clicked on t Location:	Data Flow hat signals a database query (code)
<u>Let's Make a Matcl</u> <i>Source:</i>	Housing (Source/Sink) Let's Make a Match Software (Process) Date Created: 10/24/2003
	Data Flow Housing (Source/Sink) Display Info (Process)
Date Last Altered: 11/24/2003	Date Created: 11/24/2003
Dest: Generate Matches- Source: Dest: Level 1 (1) Source: Dest:	Returning (1.4) Returning Students (Source/Sink) Process Request - Returning (Process) Freshman (1.5) Freshmen Students (Source/Sink) Process Request - Freshmen (Process) Housing (Source/Sink) Process Matches-Review Roommates (Process)
Date Last Altered: 11/24/2003	Date Created: 10/25/2003
	(1.10) Housing (Source/Sink) Calculate System Statistics (Process) Date Created: 11/24/2003
Request-Remaining Description:	Data Flow

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```
Button clicked that invokes a query
         Location:
             Level 1
                      (1)
                      Source: Review Unmatched Roommates (Process)
                             Match Database (File)
                      Dest:
                      Source: Housing (Source/Sink)
                      Dest:
                             Review Unmatched Roommates (Process)
             Review Unmatched Roomates (1.8)
                      Source: Housing (Source/Sink)
                             All Freshmen (Process)
                                     Date Created: 11/24/2003
Date Last Altered: 11/24/2003
______
   Request-to-Clear
                                                    Data Flow
         Description:
             Button clicked that invokes a query
         Location:
             Level 1
                      (1)
                      Source: Housing (Source/Sink)
                             Tasks (Process)
                      Dest:
             Tasks
                      (1.9)
                      Source: Housing (Source/Sink)
                             Reset System (Process)
                      Dest:
                                     Date Created: 10/29/2003
Date Last Altered: 11/24/2003
   Reset System
                                                    Process
         Description:
             Allows the administrator to clear all of the information out of the
             database.
         Process #:
                      1.9.1
         Location:
             Tasks
                      (1.9)
                      Input Flows:
                      Request-to-Clear
                      Confirmation
                      Confirmation
                      Confirmation
                      Output Flows:
                      Confirmation
                      Clear
                      Clear
                      Clear
                      Clear
                      Clear
Date Last Altered: 11/24/2003
                                     Date Created: 11/24/2003
______
                                                    Data Flow
    Retrieval
```

Description:

SQL Code that returns a list of possible roommates and some information about them

Notes:

Location:

Let's Make a Match level 0 (0)

> Source: Returning Students Database (File) Let's Make a Match Software (Process) Dest: Source: Freshmen Students Database (File) Let's Make a Match Software (Process) Dest: Source: Let's Make a Match Software (Process)

Match Database (File) Dest:

Date Created: 10/24/2003 *Date Last Altered:* 11/24/2003

Returning-Student-Information

Data Flow

Description:

Preferences chosen from pull down menu, on the user profile

Location:

FE LMM Context Diagram (CONTEXT)

Source: Returning Students (Source/Sink) Let's Make a Match (Process) Dest:

Date Created: 10/24/2003 Date Last Altered: 11/24/2003

Returning Students

Source/Sink

Description:

These are the students that already attend Siena and are looking for someone to live with for the next year.

Location:

FE LMM Context Diagram (CONTEXT)

Input Flows:

Student-Matches-Returning

Output Flows:

Returning-Student-Information

Let's Make a Match level 0 (0)

Input Flows:

Possible-Roommate-Matches

Output Flows: Profile-Input

Level 1 (1)

Input Flows: Confirmation

Matches

Validation-yes-no

Output Flows:

Profile-Input

Submit-Match-Request

	User-Name-Passw	vord	
Create/Ent	ter Account	(1.1)	
	Input Flows:	` '	
	Validation-yes-no		
	Output Flows:		
	User-Name-Passw	vord	
	Process-User-Nan		
Generate M	Matches-Returning		
	Input Flows:	,	
	-	and-Characteristics	
	Output Flows:		
	Request-Matches		
Sort Resul	ts Returning Stude	nts (1.4.2)	
	Input Flows:		
	Top-Matches		
Date Last Altered: 11/24/20	•	Date Created: 10/24/2003	
	. 1		
Returning Students Da	tabase		File
Description:	.1 (*1 1.1		
	s the profiles and da	ata of the returning students.	
Location:	ar a 1 a Day at	(1.4)	
Generate I	Matches-Returning	(1.4)	
	Input Flows:		
	Query-on-Profile		
	Output Flows:		
	·	-Profile-Attributes	
<u>Let's Make</u>	e a Match level 0	(0)	
	Input Flows:		
	Storage		
	Output Flows:		
	Retrieval		
<u>Tasks</u>	(1.9)		
	Input Flows:		
	Clear		
	Output Flows:		
	Confirmation		
Level 1	(1)		
	Input Flows:		
	Create-Update-Stu	<u>ident-Info</u>	
	Query-Matches		
	Output Flows:		
	Confirmation		
	Matches		
Date Last Altered: 11/24/2003 Date Created:		<i>Date Created:</i> 10/25/2003	
Review Unmatched Roommates		Process	

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```
Description:
              Obtains the list of students that were not successfully matched.
          Process #:
                       1.8
          Process Description:
              Students that did not find a roommate or did not want to look for one
              are returned as a list to housing so they can be matched by hand.
          Location:
              Level 1
                       (1)
                       Input Flows:
                       Request-Remaining
                       Remaining-Students
                       Output Flows:
                       Remaining-Students
                       Request-Remaining
Date Last Altered: 11/24/2003
                             Date Created: 11/24/2003
______
    Roommate-Matches
                                                              Data Flow
          Description:
              List of names of students that requested each other
          Location:
              Let's Make a Match level 0 (0)
                       Source: Let's Make a Match Software (Process)
                               Housing ( Source/Sink )
                       Dest:
              Level 1
                       (1)
                       Source: Match Database (File)
                       Dest: Process Matches-Review Roommates (Process)
                                      Date Created: 10/29/2003
Date Last Altered: 11/24/2003
    Roommates
                                                      Data Flow
          Description:
              List of names of students that requested each other
          Location:
              FE LMM Context Diagram (CONTEXT)
                       Source: Let's Make a Match (Process)
                              Housing (Source/Sink)
                       Dest:
Date Last Altered: 11/24/2003
                                      Date Created: 10/24/2003
______
    Sort Results -Freshmen
                                                      Process
          Description:
              Sorts out the potential roommate matches.
          Process #:
                       1.5.2
          Process Description:
              The takes the results and calculates what will be returned to the student.
          Location:
              Generate Matches-Freshman (1.5)
```

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```
Input Flows:
                         Matches
                         Output Flows:
                          Suitable-Matches-and-Characteristics
Date Last Altered: 10/25/2003
                             Date Created: 10/25/2003
    Sort Results -Returning
                                                            Process
           Description:
               Sorts out the potential roommate matches.
           Process #:
                         1.4.2
           Process Description:
               The takes the results and calculates what will be returned to the student.
           Location:
               Generate Matches-Returning (1.4)
                         Input Flows:
                         Matches
                         Output Flows:
                          Suitable-Matches-and-Characteristics
                                          Date Created: 10/25/2003
Date Last Altered: 10/25/2003
                                                            Data Flow
    Statistics
           Description:
               Information about the system, like the percentages of matched students.
           Location:
               Level 1
                          (1)
                         Source: Match Database (File)
                         Dest: Display Info (Process)
                                                  Date Created: 12/1/2003
Date Last Altered: 12/1/2003
                                                            Data Flow
    Storage
           Description:
               Preferences chosen form the pull down menu on the user profile form
           Location:
               Let's Make a Match level 0 (0)
                         Source: Let's Make a Match Software (Process)
                         Dest: Returning Students Database (File)
                         Source: Let's Make a Match Software (Process)
                         Dest: Freshmen Students Database (File)
                                          Date Created: 10/24/2003
Date Last Altered: 11/24/2003
    Student-Data
                                                            Data Flow
           Description:
               Modified list of possible roommate matches with attributes taken out
                that students can not see about each other
           Location:
                Sort Results Returning Students (1.4.2)
```

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```
Source: Process Characteristics (Process)
                       Dest:
                              Calculate Top Matches (Process)
              Sort Results -Freshmen
                                       (1.5.2)
                       Source: Process Characteristics - Freshmen (Process)
                              Calculate Top Matches Freshmen (Process)
                       Dest:
Date Last Altered: 11/24/2003
                                      Date Created: 10/25/2003
    Student-Matches-Freshmen
                                                              Data Flow
          Description:
              List of possible roommates and some information about them
          Location:
              FE LMM Context Diagram (CONTEXT)
                       Source: Let's Make a Match (Process)
                              Freshman Students (Source/Sink)
                       Dest:
                                      Date Created: 10/24/2003
Date Last Altered: 11/24/2003
Student-Matches-Returning
                                                              Data Flow
          Description:
              List of possible roommates and some information about them
          Location:
              FE LMM Context Diagram (CONTEXT)
                       Source: Let's Make a Match (Process)
                              Returning Students (Source/Sink)
                       Dest:
Date Last Altered: 11/24/2003
                                      Date Created: 10/24/2003
    Student-User-Name-Password
                                                              Data Flow
          Description:
              This is the user name and password of the student that is requested
          Location:
              Tasks
                       (1.9)
                       Source: Housing (Source/Sink)
                               Add Students (Process)
                       Dest:
                       Source: Housing (Source/Sink)
                              Delete Student (Process)
                       Dest:
                       Source: Delete Student (Process)
                               User Name-Password Database (File)
                       Dest:
                       Source: Add Students (Process)
                               External User Name and Password (File)
                       Dest:
                                      Date Created: 11/24/2003
Date Last Altered: 11/24/2003
______
                                                              Data Flow
    Students-Registered
          Description:
              List of students that have created their profiles
          Location:
              Display Info
                               (1.10)
```

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Source: Freshmen Students Database (File) Dest: Users Registered (Process) *Date Created:* 11/24/2003 Date Last Altered: 11/24/2003 Data Flow Students-Using-Software Description: **SQL** Query Location: Display Info (1.10)Source: Housing (Source/Sink) Dest: Users Registered (Process) *Date Created:* 11/24/2003 Date Last Altered: 11/24/2003 ______ Data Flow Submit-Match-Request Description: Button clicked that invokes a query (code) Location: Level 1 (1)Source: Returning Students (Source/Sink) Generate Matches-Returning (Process) Dest: Source: Freshmen Students (Source/Sink) Generate Matches-Freshman (Process) Dest: *Date Created:* 10/24/2003 Date Last Altered: 11/24/2003 Submit Roommate Request Process Description: A form is filled out to store requested roommates. Process #: 1.6.1 Process Description: When Students decide who it is that they want to live with, they both have to fill out an online for requesting each other for roommates. This information is stored in the database. Location: Matched Roommate Submission (1.6) Input Flows: Form-Information Confirmation Output Flows: Form-Information Confirmation Request-Confirmation Date Last Altered: 10/25/2003 *Date Created:* 10/25/2003 **Data Flow** Suitable-Matches-and-Characteristics Description:

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List of possible roommates and some information about them

Location:	
Generate Matches	-Returning (1.4)
Source	: Sort Results - Returning (Process)
Dest:	Returning Students (Source/Sink)
Generate Matches	-Freshman (1.5)
Source	: <u>Sort Results -Freshmen</u> (Process)
Dest:	<u>Freshmen Students</u> (Source/Sink)
Date Last Altered: 11/24/2003	<i>Date Created:</i> 10/25/2003
Tasks	Process
Description:	
	ng to add new freshmen and to clear the database at
the end of the hou	sing selection.
<i>Process</i> #: 1.9	
Process Description:	
	te students that are creating problems in the system.
Location:	
$\underline{\text{Level 1}} (1)$	
Input F	
•	t-to-Clear
Confirm	
<u> </u>	Flows:
Clear-C	
Confirm Date Last Altered: 12/1/2003	<u>nation</u> Date Created: 10/29/2003
	Date Createa: 10/29/2003
Top-Matches	Data Flow
Description:	
List of possible ro	ommates and some information about them
Location:	
Sort Results Retur	ning Students (1.4.2)
Source	: <u>Calculate Top Matches</u> (Process)
Dest:	Returning Students (Source/Sink)
Date Last Altered: 11/24/2003	Date Created: 10/25/2003
Unmatched-Names	Data Flow
Description:	
List of names of u	nmatched students
Location:	
Review Unmatche	ed Roommates (1.8)
Source	: <u>Calculate Matched</u> (Process)
Dest:	Housing (Source/Sink)
Date Last Altered: 11/24/2003	Date Created: 11/24/2003
User-Name-Password	Data Flow
Description:	

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User Name and Password Location: Let's Make a Match level 0 (0)Source: Let's Make a Match Software (Process) User Name-Password Database (File) Dest: Level 1 (1)Source: Returning Students (Source/Sink) Create/Enter Account (Process) Dest: Source: Freshmen Students (Source/Sink) Dest: Create/Enter Account (Process) Source: Create/Enter Account (Process) <u>User Name-Password Database</u> (File) Dest: Source: User Name-Password Database (File) External User Name and Password (File) Dest: Create/Enter Account (1.1)Source: Returning Students (Source/Sink) Process User Name and Password (Process) Dest: **Process Login** (1.1.1)Source: Freshmen Students (Source/Sink) Generic login (Process) Dest: Date Created: 11/24/2003 Date Last Altered: 11/24/2003 User Name-Password Database File Description: This database stores all of the passwords and logins to all the users of the software. Location: Let's Make a Match level 0 (0)*Input Flows:* User-Name-Password Output Flows: Validation Level 1 (1)Input Flows: User-Name-Password Validation-yes-no Output Flows: Validation-yes-no User-Name-Password Create/Enter Account (1.1)*Input Flows:* Process-User-Name-Password Process-User-Name-Password Output Flows: Validation-ves-no Validation-ves-no

```
Process Login
                                   (1.1.1)
                          Input Flows:
                          Enter-Data
                          Output Flows:
                          Confirmation
                          (1.9)
                Tasks
                          Input Flows:
                          Student-User-Name-Password
                          New-User-Name-Password
                          Clear
                          Output Flows:
                          Confirmation
                          Confirmation
                          Confirmation
Date Last Altered: 11/24/2003
                                           Date Created: 10/24/2003
    Users Registered
                                                             Process
           Description:
                This calculated the number of students that have created their profile at
                this point in time.
           Process #:
                         1.10.2
           Location:
                                   (1.10)
                Display Info
                          Input Flows:
                          Students-Using-Software
                          Students-Registered
                          Output Flows:
                          Number-of-Students
                          Query-Students
Date Last Altered: 11/24/2003
                                           Date Created: 11/24/2003
    Validation
                                                             Data Flow
           Description:
                Yes or No
           Location:
                Let's Make a Match level 0 (0)
                          Source: User Name-Password Database (File)
                          Dest: Let's Make a Match Software (Process)
Date Last Altered: 11/24/2003
                                           Date Created: 10/29/2003
                                                             Data Flow
    Validation-yes-no
           Description:
                Yes or No
           Location:
                Level 1
                          (1)
                          Source: User Name-Password Database (File)
```

Dest: Create/Enter Account (Process)
Source: Create/Enter Account (Process)
Dest: Returning Students (Source/Sink)
Source: Create/Enter Account (Process)
Dest: Freshmen Students (Source/Sink)

Source: External User Name and Password (File)

Dest: User Name-Password Database (File)

<u>Create/Enter Account</u> (1.1)

Source: User Name-Password Database (File)

Dest: Returning Students (Source/Sink)

Source: User Name-Password Database (File)

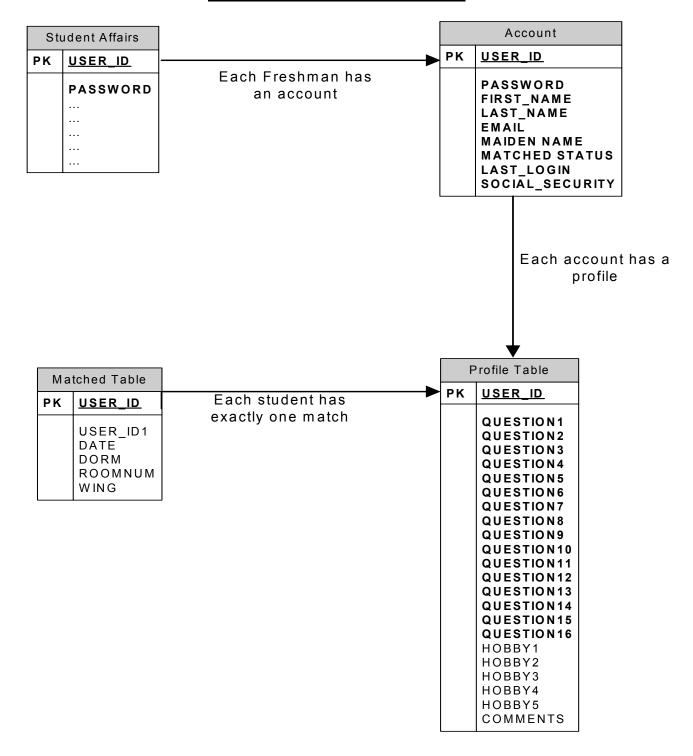
Dest: Freshmen Students (Source/Sink)

Date Last Altered: 11/24/2003 Date Created: 10/24/2003

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Architectural Design Specifications

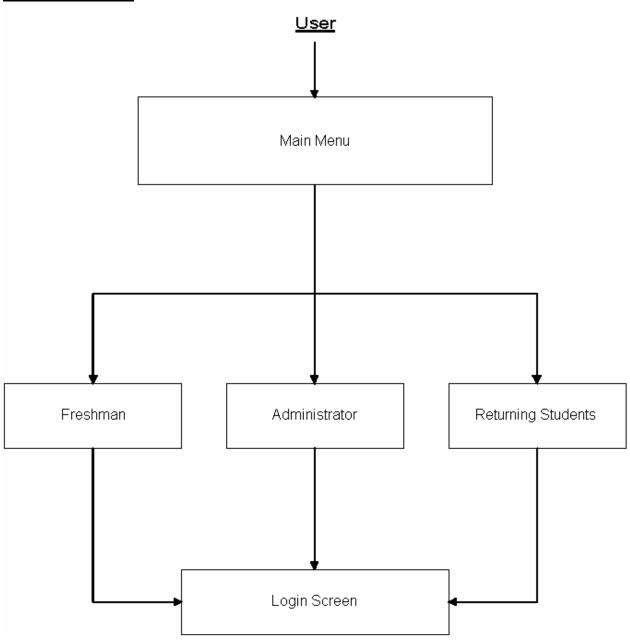
Entity- Relationship Diagrams (ERD)



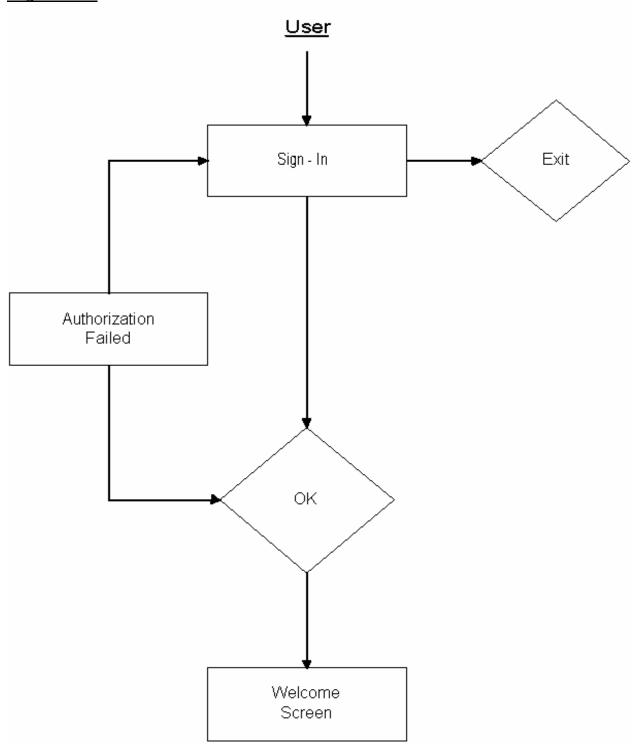
Falcon Enterprises -76- Detailed Design

Structure Diagrams

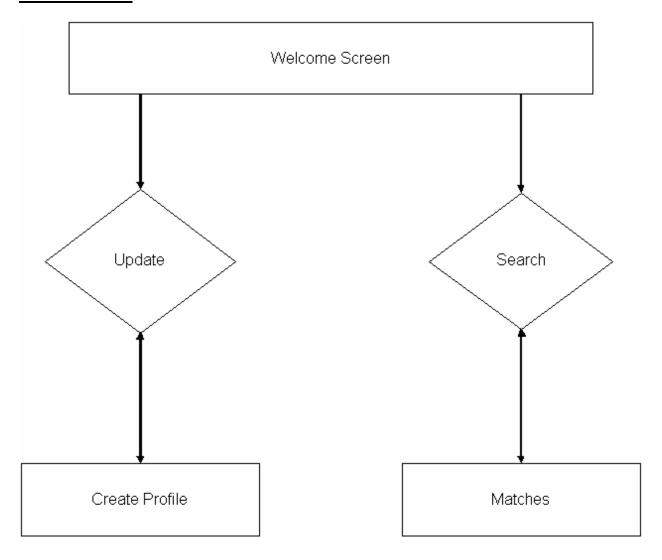
Main Menu Screen



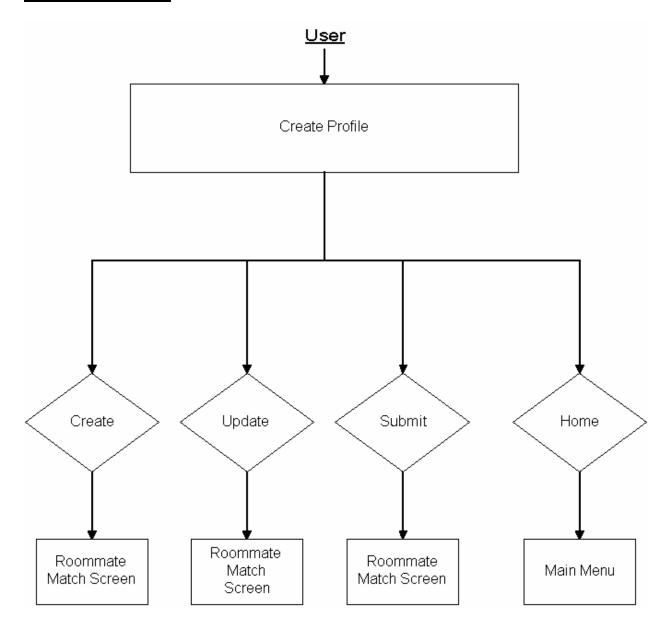
Login Screen



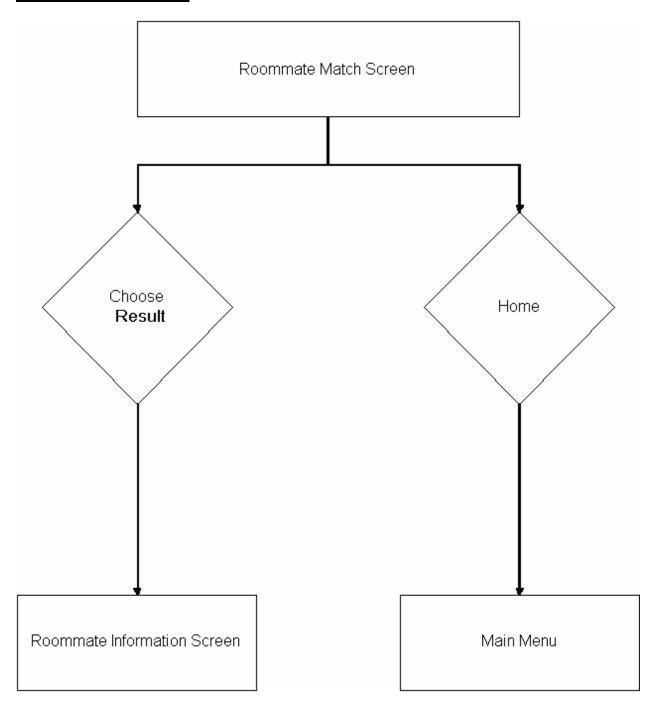
Welcome Screen



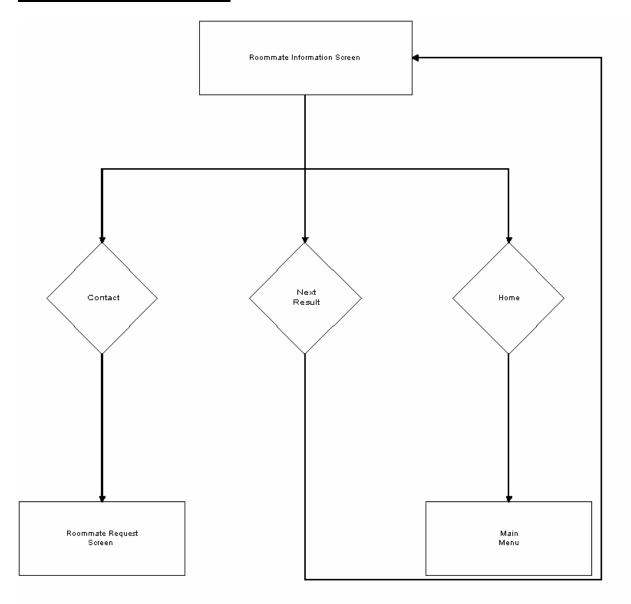
Create Profile Screen



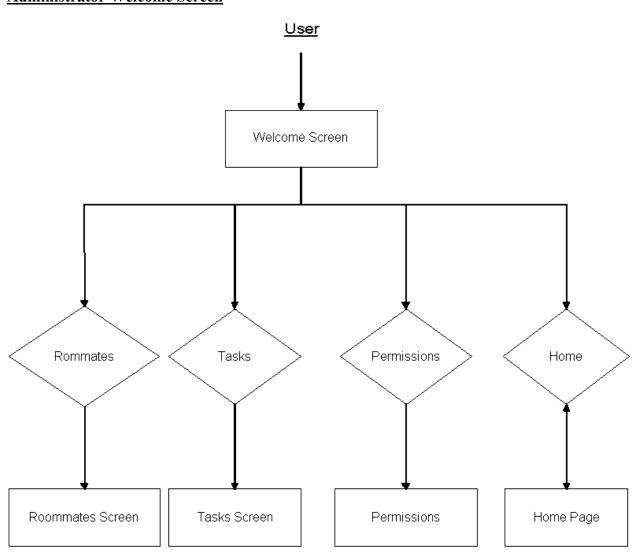
Roommate Match Screen



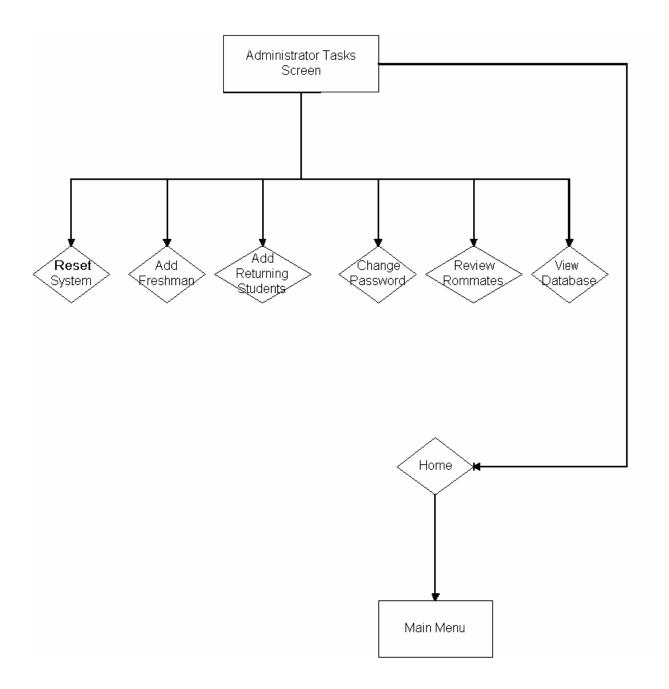
Roommate Information Screen



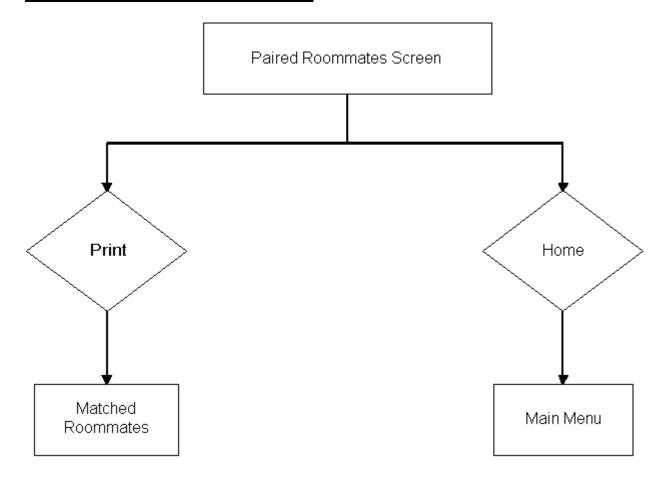
Administrator Welcome Screen



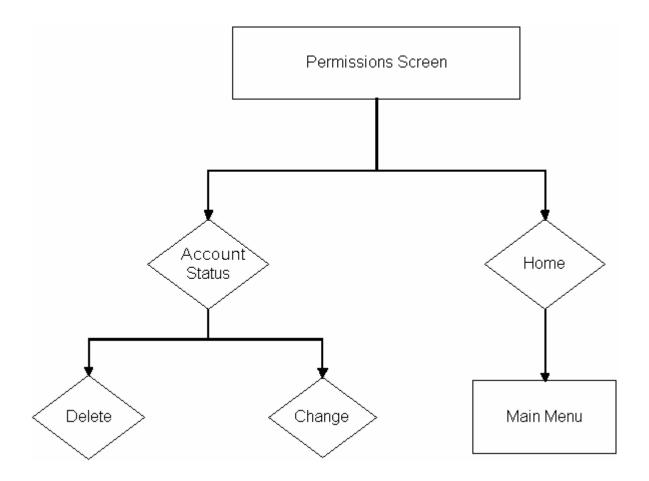
Administrator Tasks Screen



Administrator: Paired Roommates Screen



Administrator: Permissions Screen



Parameter Specifications

Student Profiles Table

This table will store all of the personal profile information for each student user of the system. Some of the items will be First Name, Last Name, Gender and email address.

Student Password Table

The table will store the students' passwords to the Let's Make A Match system.

Matched_Students_Table

This table will store all of the students who have been matched up together.

Functional Descriptions

- The system will have a login screen for users and administrators
- The system will have an authentication process to restrict unauthorized people
- The ability to add, update, or removed a user's information is available
- The system will supply relevant matches for the user
- Users will be able to submit their living requests to the system
- Users will receive confirmation that their request was received
- Administrators will have the ability to:
 - o access reports on users' matches
 - o clear out the database
 - o delete a user at anytime
 - o flag a user with a confirmed match
- Administrators must monitor and maintain the database on a consistent basis to ensure the system is running and working properly

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Testing Requirements

Test Cases for Freshman

Freshman Test Case	Expected Result	Actual Result
Web Page	Welcome web page should be accessible using IE, Netscape or Opera browser	
Click on Freshman Login	Login screen should appear	
Login in with "username" and "password"	Should receive message that you succesfully logged in to the system	
Login with "invalid_usename" and "password"	d Should receive error message that either the username or password is incorrect	
Login with "username" and "Invalid_password"	Should receive error message that either the username or password is incorrect	
Login with "invalid_usename" and "invalid_password"	d Should receive error message that either the username or password is incorrect	
Click on the "Forgot your Password" Link	Should receive a screen that will ask the user to enter their mother's maiden name	
Enter Mother's Maiden Name	Should receive message that you succesfully logged in to the system	
Click on the "Create Profile" Link	A profile fields page should appear asking user to fill out.	
All profile fields should be tested with correct and incorrect data	Should except valid data and reject invalid data	
Submit Profile	Should receive a message that the profile has been successfully created	
Search for Matches	Should display Match Results "Name and Percentage"	
Click on Matched name	Should display profile comparison of you and the matched user	
Contact matched user	Should display matched users email address	
Request a Roomate	User should receive the confirmation screen	
	Should receive a screen with Profile fields allowing user to	

change or update them

Update your Profile

Test Cases for Administrator

Freshman Test Case	Expected Result	Actual Result
Type in URL for site home page	Hope page displays with all pictures	
Home Page	Email links works	
	Pictures Display	
	Disclaimer link works	
	All links work	
Click link on botom for administrato sign in Logging in	or Administrator Logon window pops up	
No User Name, No password	Rejected	
No User Name, Incorrect password	Rejected	
No User Name, Correct password	Rejected	
Incorrect User Name, No password	Rejected	
Incorrect User Name, Incorrect Password	Rejected	
Incorrect User Name, Correct password	Rejected	
Correct User Name, No password	Rejected	
Correct User Name, Incorrect password	Rejected	
Correct User Name, Correct password	Accepted Administrator Home Welcome screen	
Administrator Welcome screen	Correct Name displayed	
	Number of students registered there/correct	
	Number of students total there/correct	
	Number of days untill accounts deleted there/c	
Click on Roomates Link	Directed to Roomates page	
Click on Tasks Link	Directed to Tasks page	

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Directed to Permissions page

Click on Permissions Link

Freshman Test Case	Expected Result	Actual Result
Roommates link Clicked	Directed to Roomates page	
	Paired Roomates displayed correctly	
	Paired roomated correct with database	
Tasks Link Clicked	Directed to Tasks page	
	Reset system link is there	
	Add Freshmen link is there	
	Change Passwords link is there	
	Review Roomates link is there	
	View Database link is there	
	Reset system link is there	
Clicked on Reset system	Database is cleared of all data	
Click on Add freshmen	Page to add freshmen is displayed	
	All fields are shown	
	Data typed in is stored/saved In the database	
Click on Change passwords	Page to change students password is displayed	
	username is entered and new password is typed	
	data is stored/saves in the database	
Click on Review Roomates	Paired Roomates page is displayed	
Click on View Database	Database program is shown and access is granted	
Permissions Link clicked	Permissions page displayed	
	all registered students names shown	
	Registered Students status is given/correct	
Clicked on Delete after a students	Registered students Account delete link is shown	
name	Student deleted from database for matching	
	Status button there	

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Freshman Test Case	Expected Result	Actual Result
--------------------	-----------------	---------------

Status link clicked page to change status is displyed

On All Pages Check this:

Page displays

All pictures visible

Email links works

Pictures Display

Disclaimer link works

All links work

Detailed Design Specification

Physical Data Structures and Data File Specification

Account Table

Field Name	Data Type	Description
USER ID	Text	Students username - character size 7
PASSWORD	Text	Students password - character size 12
FIRST NAME	Text	Students first name - character size 15
LAST NAME	Text	Students last name - character size 25
EMAIL	Text	Student e-mail address - character size 50
MAIDEN NAME	Text	Mother's maiden name - character size 25
MATCHED STATUS	Text	Matched - yes or no - character size 3
LAST LOGIN	Date/Time	Last time they logged in - date/time
SOCIAL SECURITY	Number	Students Social Security Number - number size 9

Matched Table

Field Name	Data Type	Description
USER ID	Text	Person requesting roommate - character size 7
USER ID1	Text	Requested roommate - character size 7
DATE	Date/Time	Date matched - date
DORM	Text	Name of Dorm - character size 50
ROOMNUM	Number	Room number - number length 10
WING	Text	Wing of Dorm - character size 50

Profile Table

Field Name	Data Type		Description
USER ID	Text	character - size 7	
QUESTION1	Number	number - length 2	
QUESTION2	Number	number - length 2	
QUESTION3	Number	number - length 2	
QUESTION4	Number	number - length 2	
QUESTION5	Number	number - length 2	
QUESTION6	Number	number - length 2	
QUESTION7	Number	number - length 2	
QUESTION8	Number	number - length 2	
QUESTION9	Number	number - length 2	
QUESTION10	Number	number - length 2	
QUESTION11	Number	number - length 2	
QUESTION12	Number	number - length 2	
QUESTION13	Number	number - length 2	
QUESTION14	Number	number - length 2	
QUESTION15	Number	number - length 2	
QUESTION16	Number	number - length 2	
HOBBY1	Number	number - length 2	
HOBBY2	Number	number - length 2	
HOBBY3	Number	number - length 2	
HOBBY4	Number	number - length 2	
HOBBY5	Number	number - length 2	
COMMENTS	Text	character - size 255	

Student Affairs Table

Field Name	Data Type	Description
Username	Text	character - size 7
Password	Text	character - size 12

Packaging Specifications

Our software will include an instruction manual for the administrator that will include step by step instructions how to use, update, and maintain the database. There will also be instructions sent to the student on how to access and use the software when they receive confirmation of their deposit.

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Appendix A: Glossary of Terms

Access: A relational database running under Microsoft Windows.

Browser - A browser is an application program that provides a way to look at and interact with all the information on the World Wide Web.

Code: A system of symbols and rules used to represent instructions to a computer.

Controlled Decentralized (CD): A software engineering team that has a defined leader who is in charge of the group, each of which has responsibility of other specific tasks. Overall we solve problems as a whole.

Database - A collection of data arranged for ease and speed of search and retrieval.

Data flow diagram - A representation of the functional decomposition of a system.

Entity-Relationship Diagram – a data modeling technique that creates a graphical representation of the entities, and the relationships between entities, within an information system.

Gantt Chart - A chart that depicts progress in relation to time, often used in planning and tracking a project.

HTML (Hypertext Markup Language): A markup language used to structure text and multimedia documents and to set up hypertext links between documents, used extensively on the World Wide Web

Internet - An interconnected system of networks that connects computers around the world via the TCP/IP protocol.

JavaScript: A trademark used for a programming language designed to develop applications, especially ones for the Internet that can operate on different platforms.

Linear Sequential Model / Classic Waterfall Model – A systematic, sequential approach to software development that begins at the system level and progresses through analysis, design, coding, testing, and support.

Logical Data Dictionary: The dictionary identifies data and its characteristics. It is a set of descriptions that can be shared by applications, this can be a database table.

Logical Data Stores: Files/ places where the data is stored

MYSQL - Open Source Database Software

Oracle: A relational database management system that runs on most mainframe, micro,

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and personal computers.

Process – An activity that changes or manipulates data.

Process Model – A software engineering strategy that is used to develop a software system.

Query – A data retrieval request.

Relational Database: A database system in which any database file can be a component of more than one of the database's tables.

Software - Written programs, procedures or rules and associated documentation pertaining to the operation of a computer system and that are stored in read/write memory.

SQL - An industry-standard language for creating, updating and, querying relational database management systems.

Use Case – Set of scenarios that show a usage of the system by a certain user.

User – An individual that has signed on to the Let's make a Match System and has been assigned a user name and password.

Visual Basic: A popular event-driven visual programming system from Microsoft Corporation for Microsoft Windows.

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