

518 Interactive

J.O.L.T.

Java·Online·Learning·Tutor

Preliminary Design

Presentation

Client Dr. Darren Lim

# Preliminary Design Presentation Welcome

## Client:

Dr. Darren Lim  
Assistant Professor  
Siena College

## Instructor:

Dr. Timothy C. Lederman  
Our Professor  
Siena College

## Special Guests



# The Team

- Lawrence Gregory - Team Leader
- Erik Stegmann - Lead Graphics and Interfaces Designer
- Christopher Hughto - Webmaster
- Jedidiah Turnbull - Systems Administrator
- Connor Vander Bogart - Organizational Information Manager



# Agenda

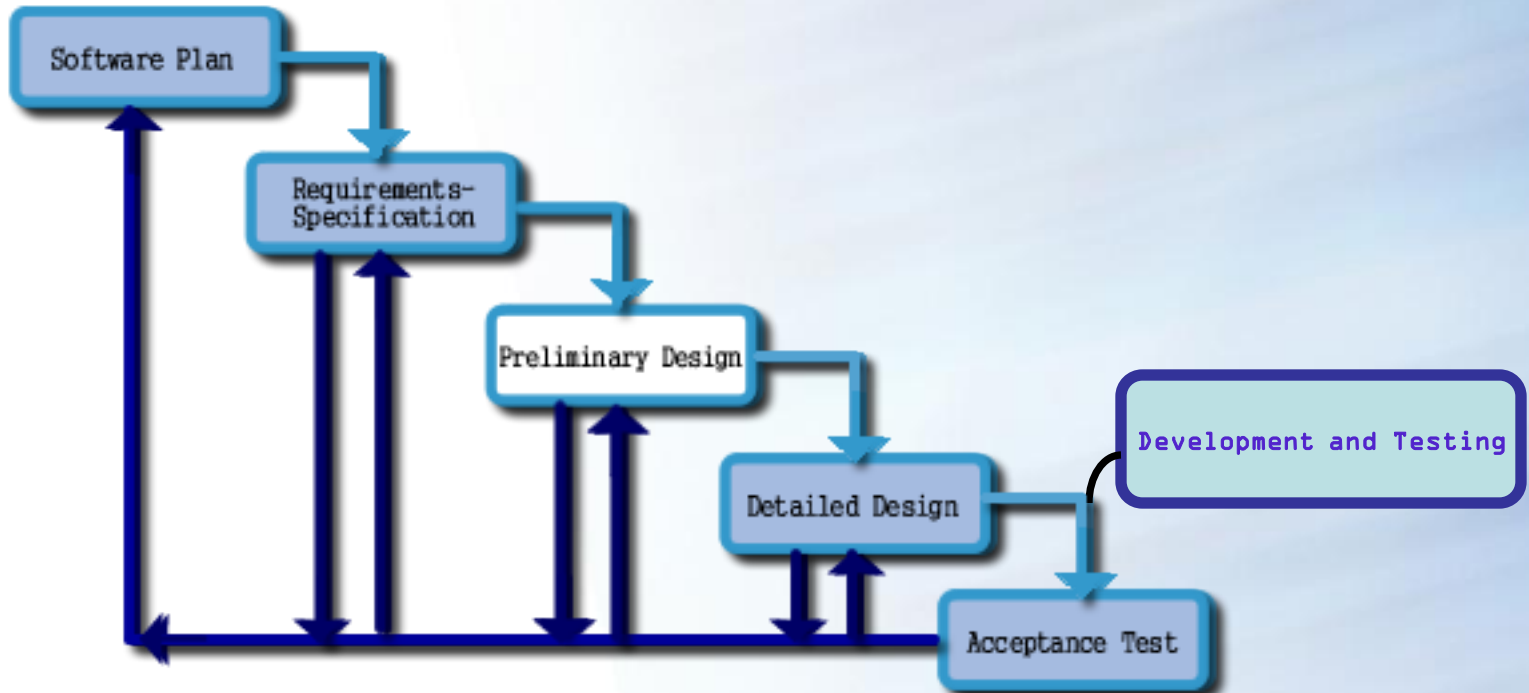
- Team Introduction
- Restatement of Problem
- Project Progression
- User Case Narratives
- Data Flow Diagrams
- Requirements Inventory
- Data Design and Dictionary
- Testing
- Student Screens
- Faculty Screens
- Course Coordinator Screens
- Administrator Screens
- What's Next?
- Questions



# Restatement of Problem

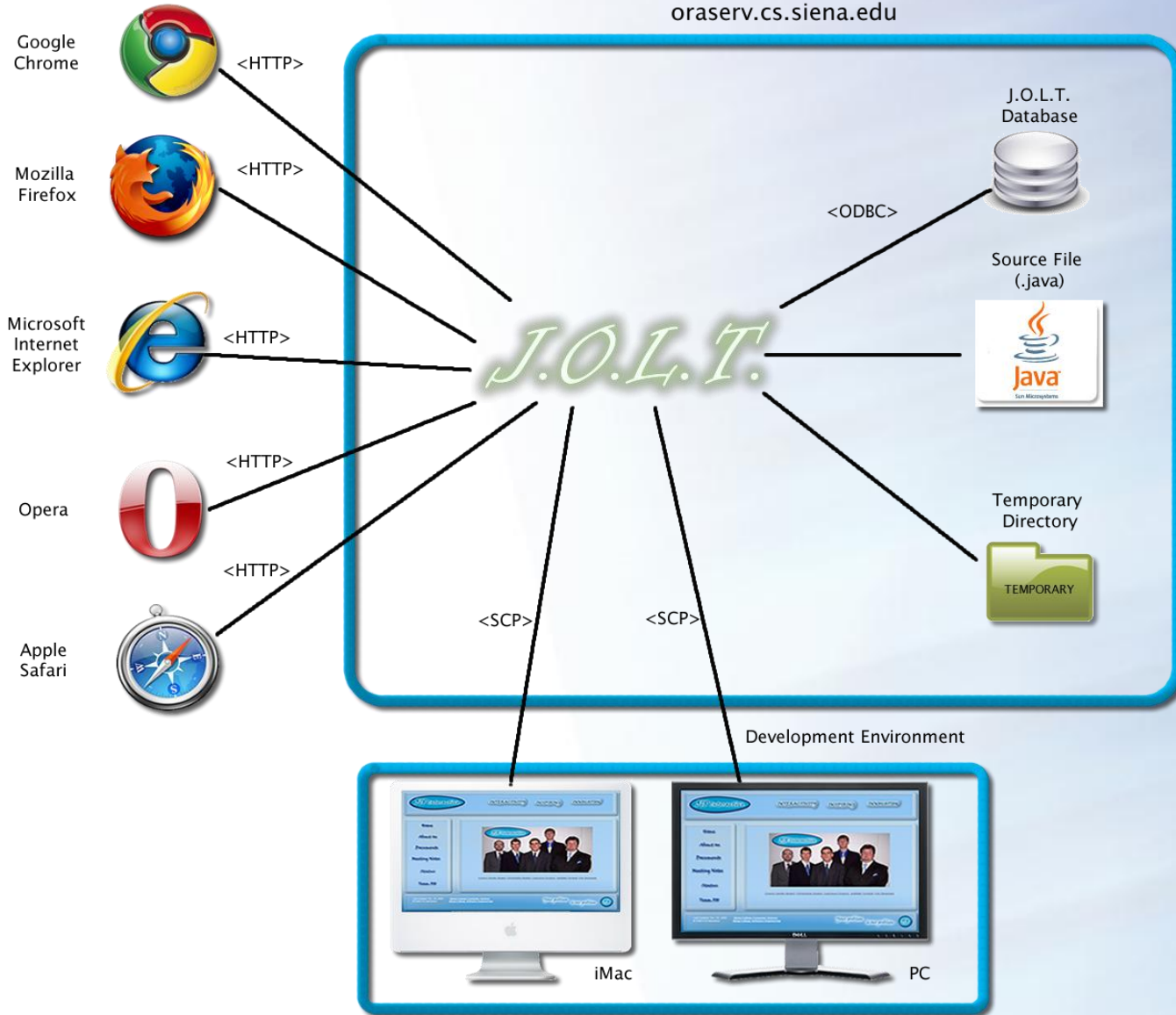
- Dr. Darren Lim, an Assistant Professor at Siena College, has a busy schedule.
- Programming projects are time consuming to grade.
- Manual testing and grading is inefficient for both students and faculty.

# Where we are in Development



# Deployment Diagram

oraserv.cs.siena.edu



# Agenda

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# User Case Narratives

User Case Narratives provide:

Description of user interaction  
with the system

Description of a specific user's  
goals when interacting with the  
system

# Student User Case Narrative

## Student User:

- Register
- Authenticate
- View Problems
- Solve Problem Sets
- View Grades

# Faculty User Case Narrative

## Faculty User:

- Manage Problems
- Manage Problem Sets
- Manage Respective Student User Grades

# Course Coordinator User Case Narrative

## Course Coordinator User:

- Create Faculty Accounts
- Manage Courses, Faculty, and Students
- Manage Course Pool
- Submit Problems to Global Pool
- Broadcast Messages

# Administrator User Case Narrative

## Administrator User:

- Manage all types of Users
- Manage Global Pool
- All abilities of a Course Coordinator

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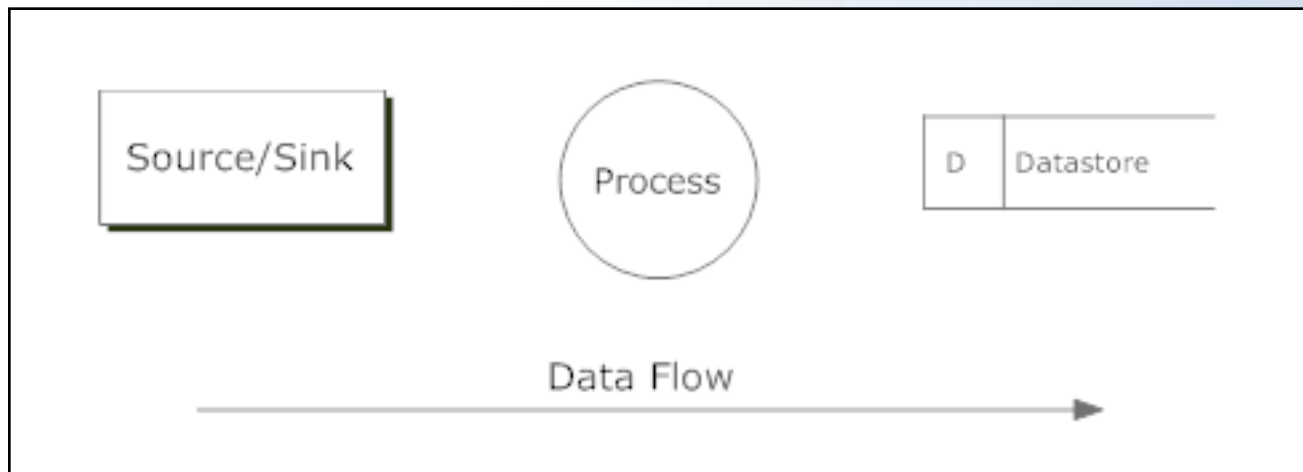


# Data Flow Diagrams

Data flow diagrams provide:

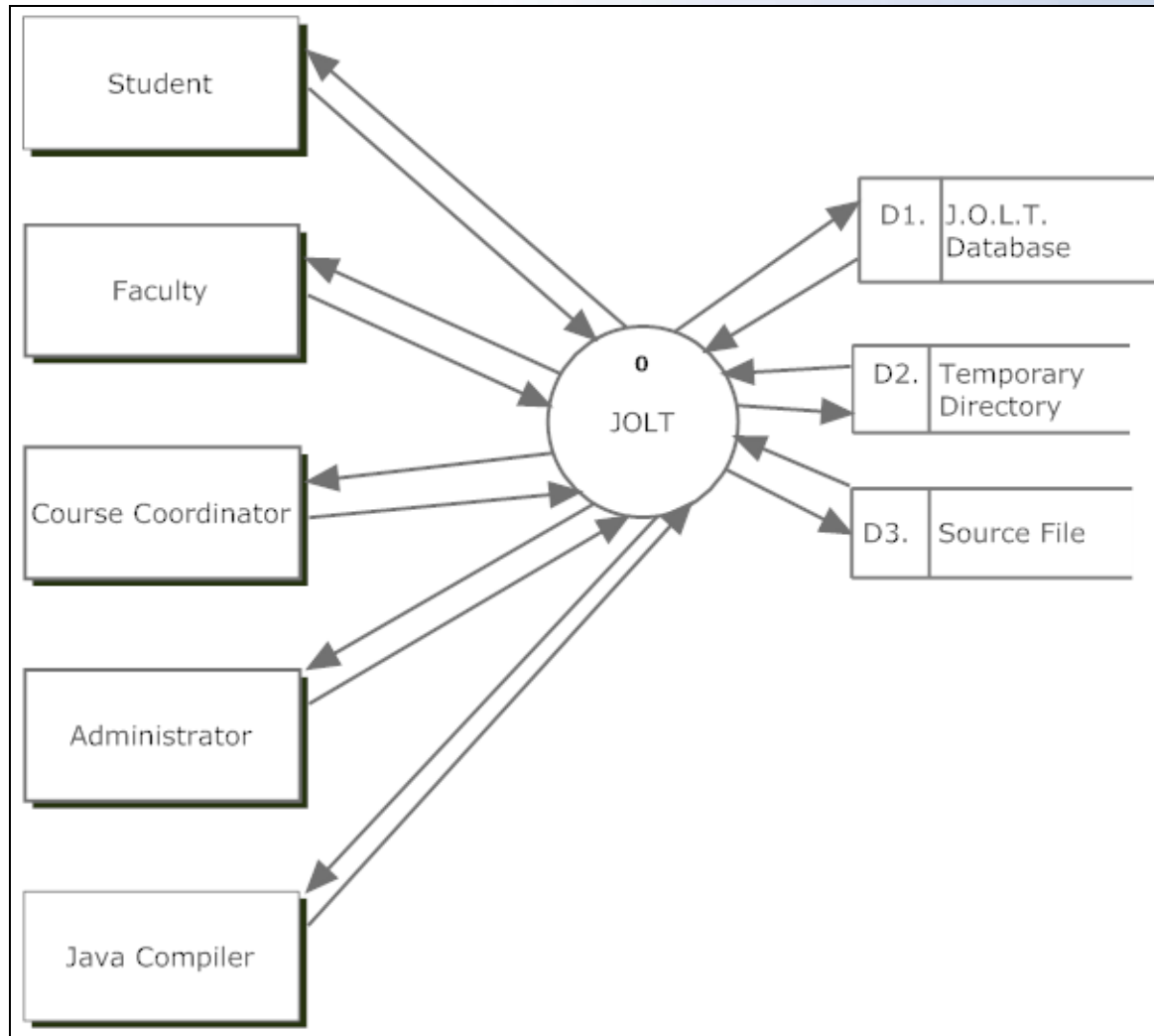
- System Decomposition
- Graphical representation of data “flow”
- Graphical representation of data manipulation
- Top down view of the system

# Data Flow Diagram Key

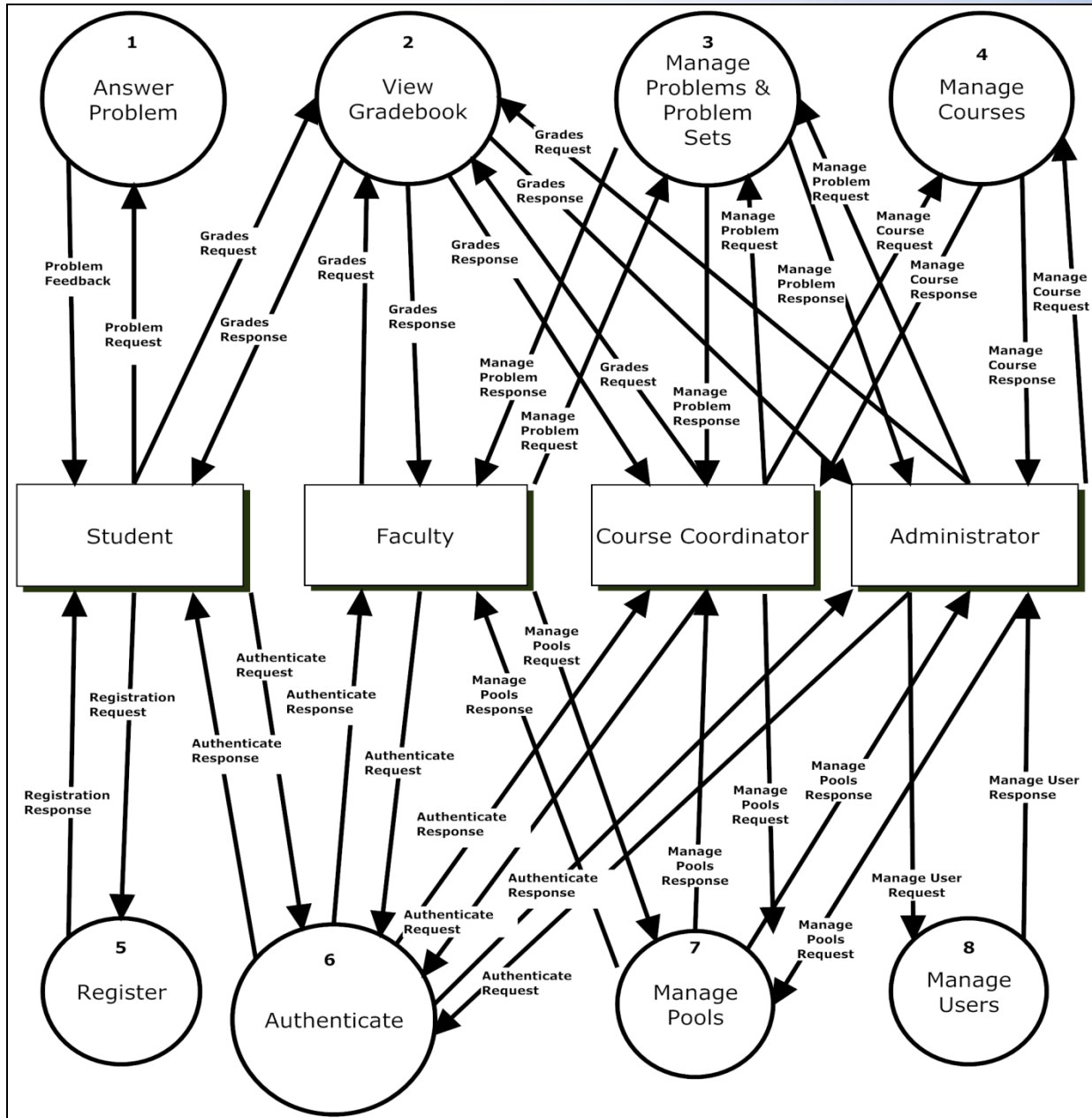




# Context Diagram

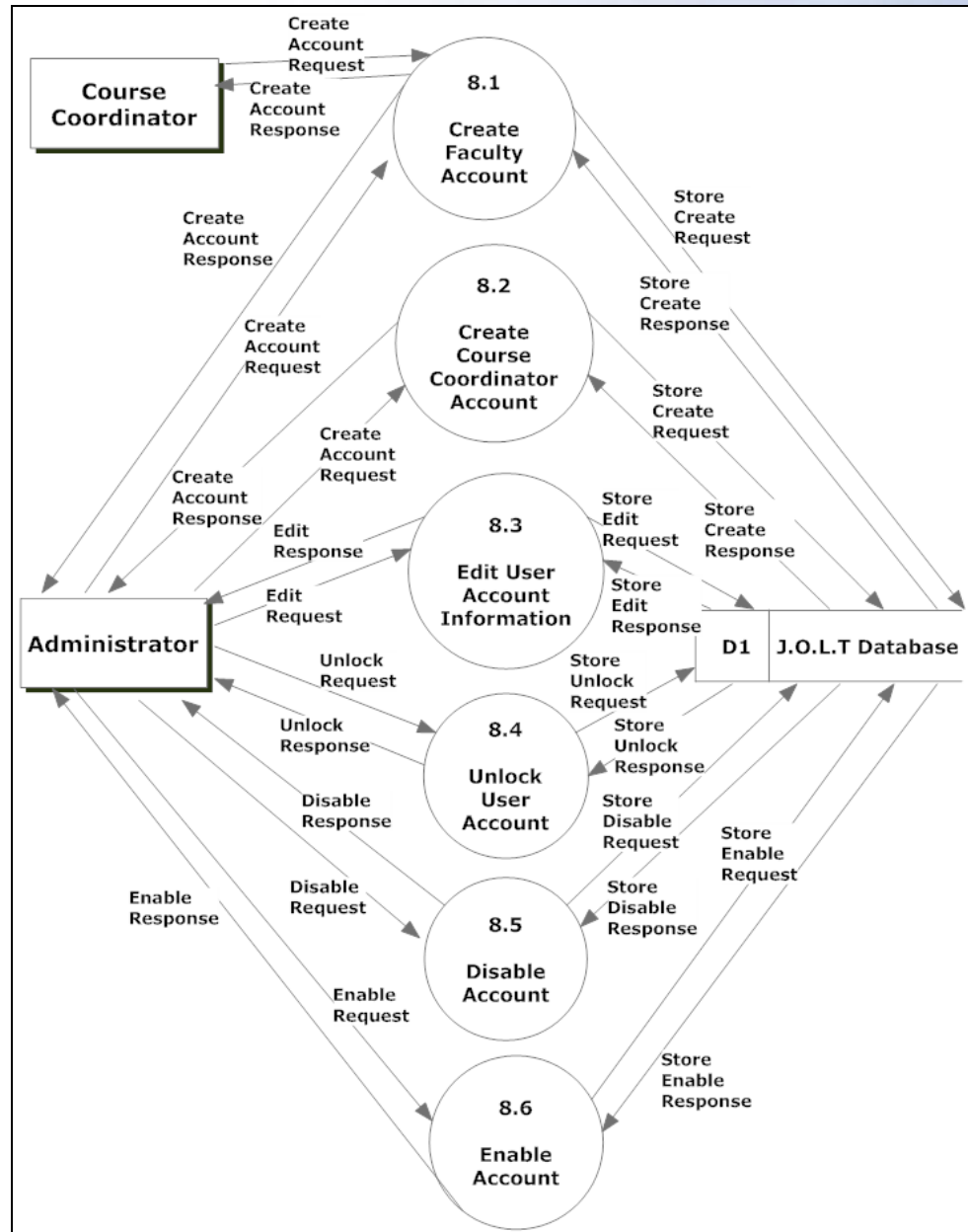


# Data Flow Diagram: Level 0

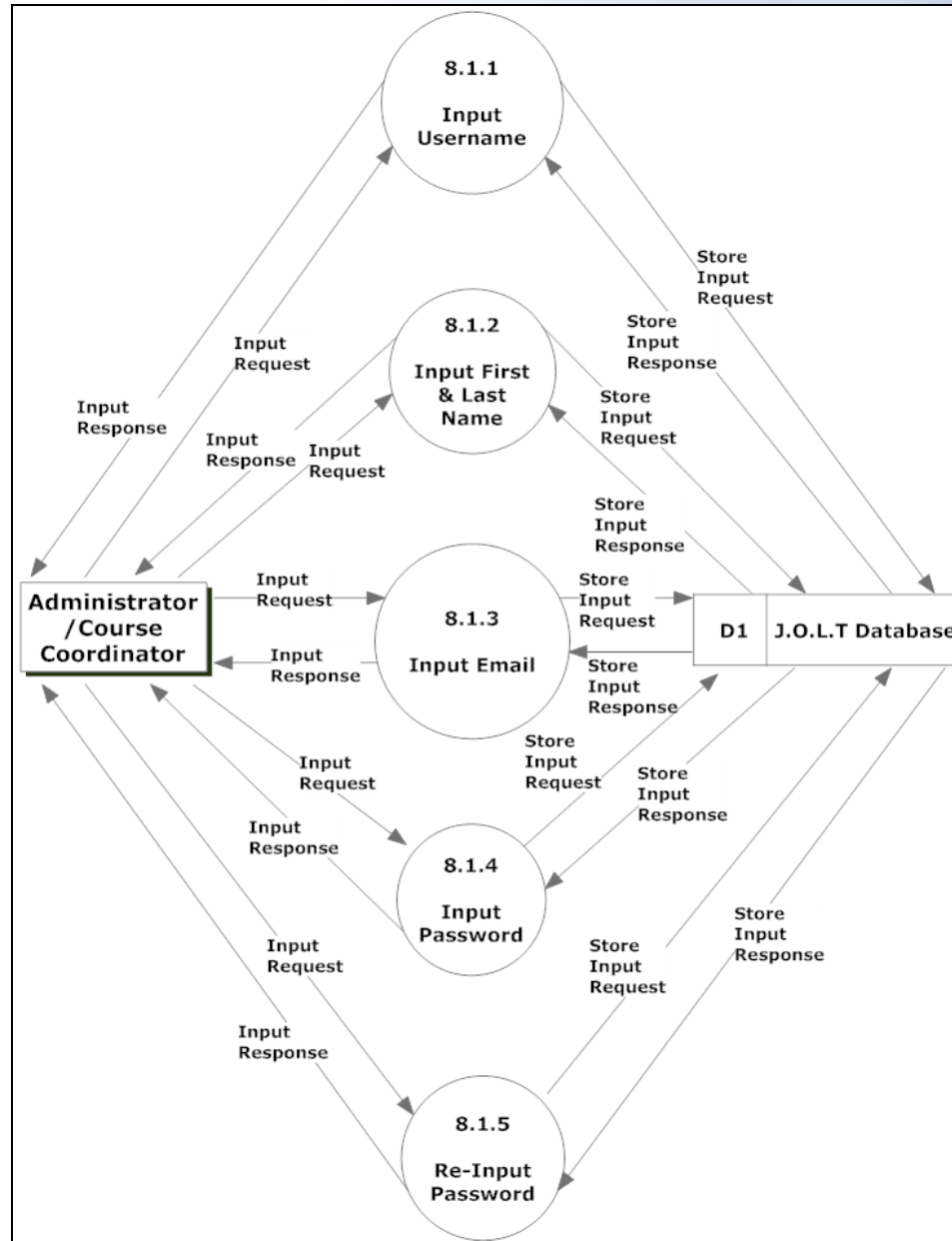


12/11/2009

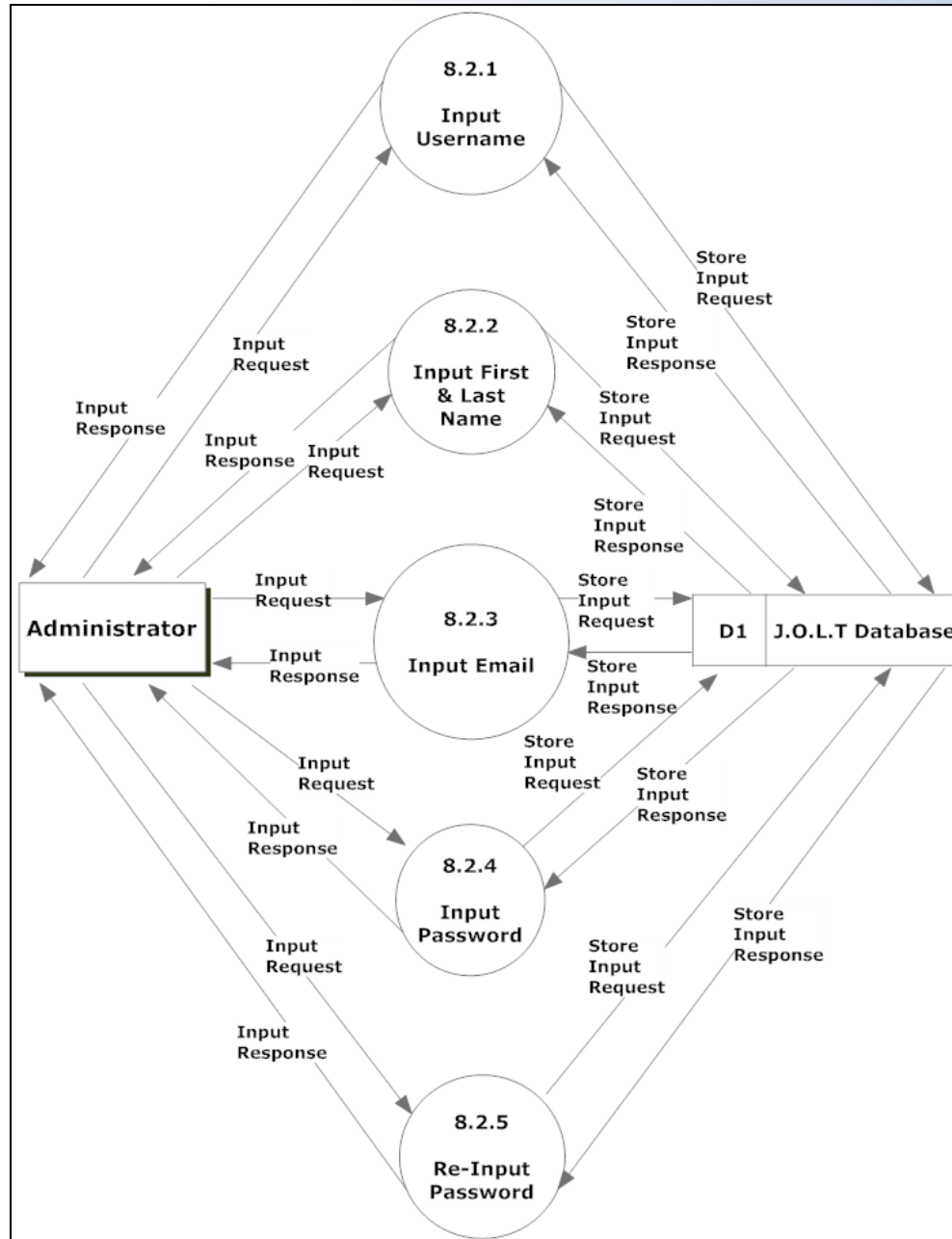
# Data Flow Diagram: Process & Level 1 Manage Users



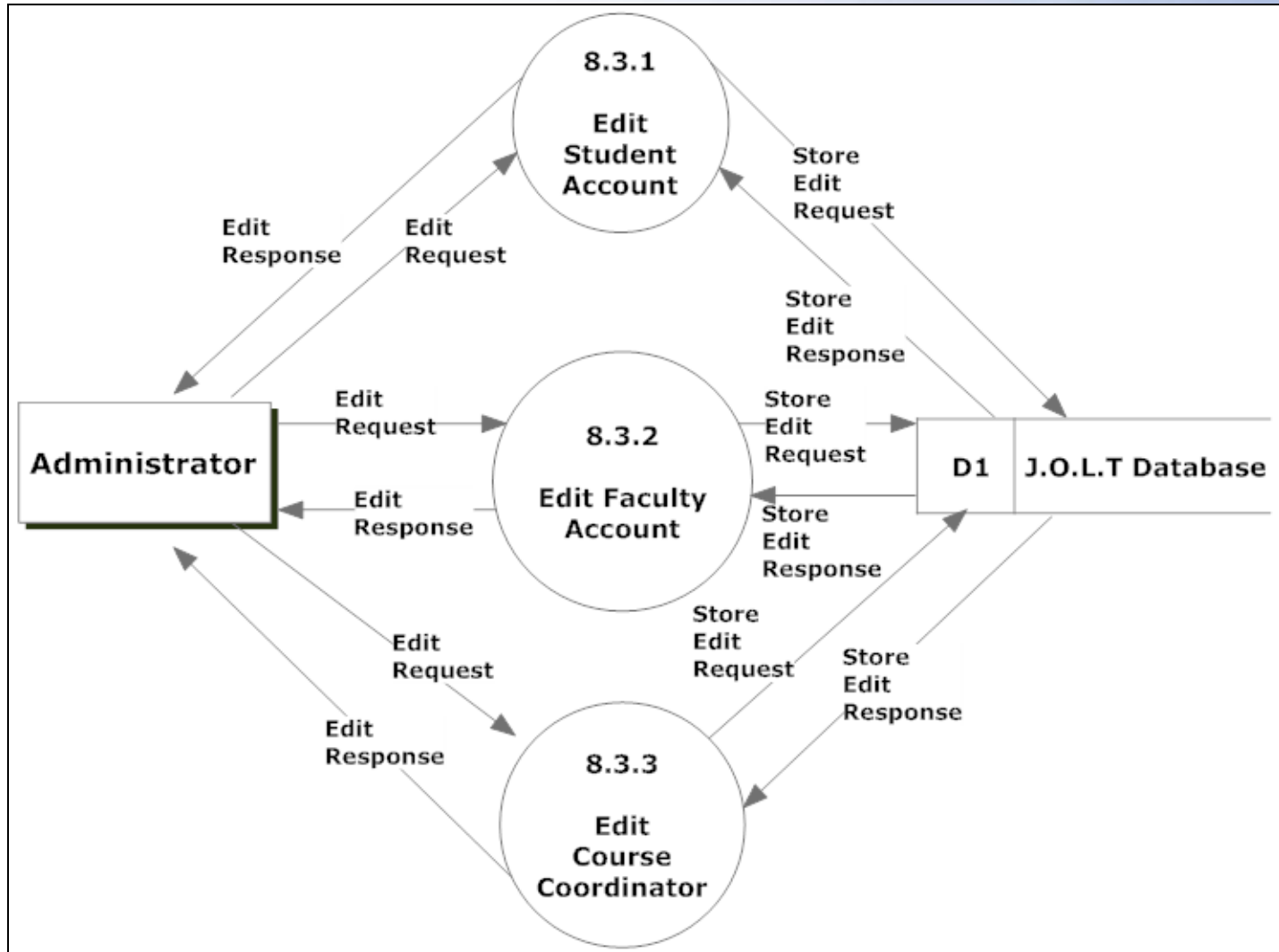
# Data Flow Diagram: Process 8.1 Level 2 Create Faculty Account



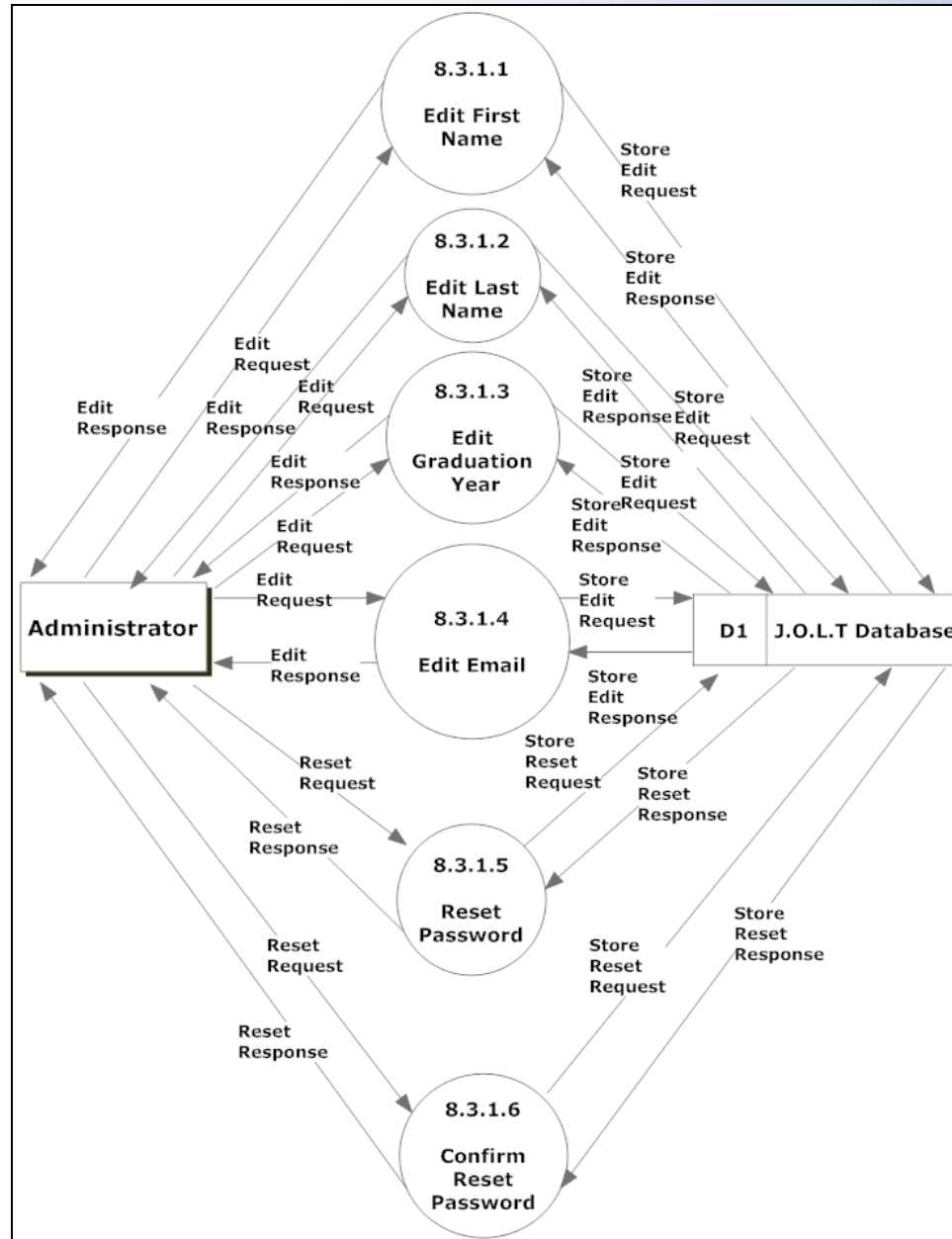
# Data Flow Diagram: Process 8.2 Level 2 Create Course Coordinator Account



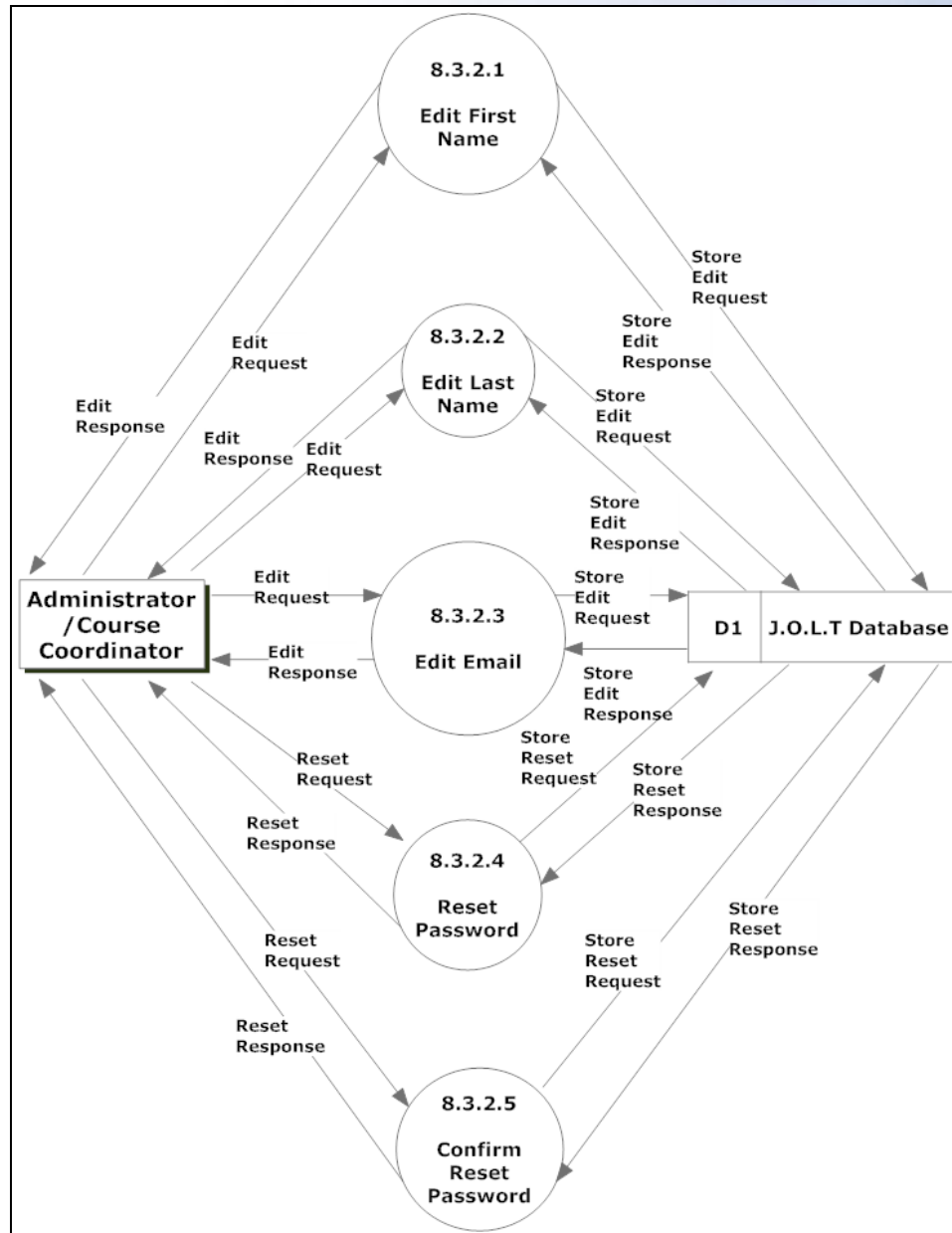
# Data Flow Diagram: Process 8.3 Level 2 Edit User Account Information



# Data Flow Diagram: Process 8.3.1 Level 3 Edit Student Account Information

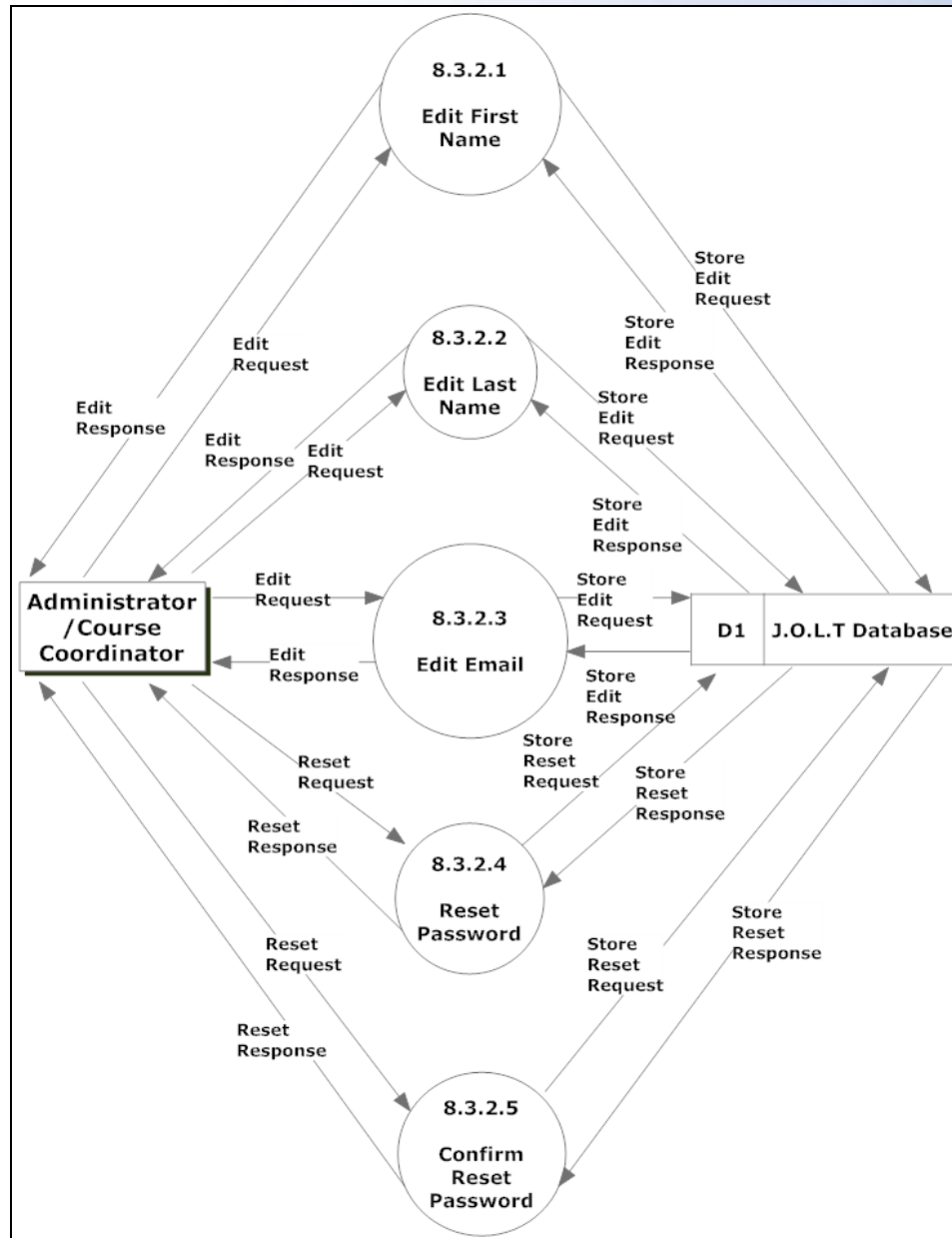


# Data Flow Diagram: Process 8.3.2 Level 3 Edit Faculty Account Information





# Data Flow Diagram: Process 8.3.3 Level 3 Edit Course Coordinator Account Information



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# General Functional Requirements Inventory

- Web based
- All major web browsers supported
- Index page with common Authentication display
- All other pages have "Log Out" Functionality
- All users must authenticate

# Student Requirements Inventory

- Only Self-Registering user
- Enroll in courses
- View Messages sent to the Student
- View problem sets from enrolled courses
- Solve problems
- Save problem progress
- View Grades and previously submitted solutions



# Faculty Requirements Inventory

- Create individual problems and problem sets
- Submit problems to their course pool
- Search the global pool for problems
- View and Modify "Gradebooks" for their courses
- Ability to interact with J.O.L.T. as a "Student" user

# Course Coordinator Requirements Inventory

- Create Faculty accounts
- Assign Faculty to courses
- Create reports and statistics
- Manage their respective course pool
- Submit problems to the global pool
- Manage grades for students of the courses they coordinate

# Administrator Requirements Inventory

- Manage all accounts
- Create course Coordinator and Faculty Accounts
- Manage the Global pool
- Broadcast Messages
- Assign courses to course coordinators
- Have all other abilities of a course coordinator

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# Data Design And Dictionary

- Data Name
  - Applicable To
  - Data Type
  - Data Size
  - Description
  - Acceptable Input:
  - Good Example of Input
  - Notes
- 
- Definition of a Data Dictionary: a "centralized repository of information about data such as meaning, relationships to other data, origin, usage, and format." - IBM Dictionary of Computing

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# Testing

- Overall Testing
- Unit Test
- Test Cases
- Acceptance Test

# Unit Test

Test Result		Unit Number	Unit Test Name
P	F	1	<a href="#">Registration</a>
P	F	2	<a href="#">Log on</a>
P	F	3	<a href="#">Answer Problem</a>

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[About J.O.L.T.](#)[Support](#)[Register](#)

# J.O.L.T.

## JAVA ONLINE LEARNING TUTOR

Log in

Username

Password

Log in

[Reset Password](#)

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# Student Screen: Registration

*J.O.L.T.*[Profile](#)[Support](#)[Log Out](#)

## Student Registration

All Fields Required

First Name

Last Name

Email

Confirm Email

Username

Password

Confirm Password

Graduating Year

Security Question

Security Question Answer

[Register Account](#)

# Student Screen: Student Home

*J.O.L.T.*

Profile

Support

Log Out

Welcome (Student Username)

Administrator  
Announcements

Course Coordinator  
Announcements

No New  
Announcements

**List of Current Courses:**

-CSIS-210 Data Structures Dr. Flatland

-CSIS-225 Object Oriented Dr. Lim

**List of Previous Courses:**

-CSIS-110 Data Structures Dr. Flatland Fall 2008

-CSIS-120 Object Oriented Dr. Lim Spring 2009

Enroll in Course

Submit

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# Student Screen: Enroll Error

*J.O.L.T.*

Profile Support Log Out

Welcome (Student Username)

Administrator  
Announcements



Incorrect PIN

OK

List of C  
-CSIS-210  
-CSIS-225

List of Previous Courses:

-CSIS-110	Data Structures	Dr. Flatland	Fall 2008
-CSIS-120	Object Oriented	Dr. Lim	Spring 2009

Enroll in Course

# Student Screen: Section Homepage

*J.O.L.T.*

Profile

Support

Log Out

## CSIS-XXX Section Homepage

Administrator  
Announcements

Course Coordinator  
Announcements

Faculty  
Announcements

No New  
Announcements

View  
Gradebook

View  
Assignments

# MAIN CONTENT

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# Student Screen: Active Assignments

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Profile

Support

Log Out

## Pending Active Assignments for CSIS-XXX-NN

Return to Course Home

Sort by: ↓ ↑	Sort by: ↓ ↑	Sort by: ↓ ↑
<u>Assignment Name</u>	<u>Due Date</u>	<u>Grade</u>
<u>Binary Search</u>	11/17/2010	—
<u>Recursion</u>	11/18/2010	—
<u>String Practice</u>	11/19/2010	—
<u>Boolean Practice</u>	11/19/2010	—

*J.O.L.T.*

Profile

Support

Log Out

## Problem Set: String Practice

Return to Course Home

Problem Name	Category	Point Value	Status
<a href="#">Name1</a>	Strings	20	--
<a href="#">Name2</a>	Recursion	10	--
<a href="#">Name3</a>	Arrays	10	--
<a href="#">Name4</a>	Algorithms	20	--
<a href="#">Name5</a>	Trees	40	--
Total:		100	

Select New Problem Set

Continue to first problem

\*You can click on any problem's name to jump right to that problem\*

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# Student Screen: Answer Problem

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Log Out

**Problem Set Name:** Problem Set 1

Previous

Back to Overview

Next

**Problem Name:** Problem Name 1**Problem Description:**

For problem 1 of this problem set you must code an iterative binary search algorithm. The method takes 2 parameters the first being a sorted array of integers containing the data, the second parameter is the number I want you to find.

Source Code:

Reset Problem

```
*****  
public Int findMe (int [ ] theData, int searchFor)  
{  
//Insert Your Code Here  
}
```

Compile, Save, Run

# Student Screen: Compiler Error

*J.O.L.T.*

Profile

Support

Log Out

Problem Set Name: Problem Set 1

Problem Name: Problem Name 1

**Problem Description:**

For problem 1 of this problem set you must code an iterative binary search algorithm. The method takes 2 parameters the first being a sorted array of integers containing the data, the second parameter is the number I want you to find. If you can find the number return true, if you can't return false.

Previous

Back to Overview

Next

**Your attempt failed to compile !**



Compilation Error  
Main.java:81: ';' expected  
return n

Source Code:

Reset Poble

```
*****  
public Int findMe (int [ ] theData, int searchFor)  
{  
  
return n  
}
```

Compile, Save, Run

J.O.L.T.

Profile

Support

Log Out

Problem Set Name: Problem Set 1Problem Name: Problem Name 1Problem Description:

For problem 1 of this problem set you must code an iterative binary search algorithm. The method takes 2 parameters the first being a sorted array of integers containing the data, the second parameter is the number I want you to find. If you can find the number return true, if you can't return false.

Source Code:

Reset Problem

```

*****
public int findMe (int [ ] theData, int searchFor)
{
//Insert Your Code Here
}

```

Compile, Save, Run






Previous

Back to Overview

Next

Your attempt did not meet all of the provided test cases!

## Test Cases:

Case	Expected	Results	Pass/Fail	Passed In
#1	True	True	Pass 	findMe (theData, 5)
#2	True	True	Pass 	findMe (theData, 6)
#3	False	False	Pass 	findMe (theData, 21)
#4	True	False	Fail 	findMe (theData, 28)
#5	False	True	Fail 	findMe (theData, 100)

# Student Screen: Timeout Error

*J.O.L.T.*

Profile

Support

Log Out

Problem Set Name: Problem Set 1

Problem Name: Problem Name 1

Problem Description:

For problem 1 of this problem set you must code an iterative binary search algorithm. The method takes 2 parameters the first being a sorted array of integers containing the data, the second parameter is the number I want you to find. If you can find the number return true, if you can't return false.

Source Code:

Reset Problem

```
*****
public Int findMe (int [] theData, int searchFor)
{
while(true){
}
}
}
```

Compile, Save, Run






Previous

Back to Overview

Next

**One or more of your test cases have timed out!**

Test Cases:

Case	Expected	Results	Pass/Fail	Passed In
#1	True	Timeout	Fail 	findMe (theData, 12)
#2	True	Timeout	Fail 	findMe (theData, 24)
#3	False	Timeout	Fail 	findMe (theData, 167)
#4	True	Timeout	Fail 	findMe (theData, 36)
#5	False	Timeout	Fail 	findMe (theData, 100)



# Student Screen: Correct Attempt

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Profile

Support

Log Out

Problem Set Name: Problem Set 1

Problem Name: Problem Name 1

Problem Description:

For problem 1 of this problem set you must code an iterative binary search algorithm. The method takes 2 parameters the first being a sorted array of integers containing the data, the second parameter is the number I want you to find. If you can find the number return true, if you can't return false.

Source Code:

Reset Problem

```
*****
public Int findMe (int [ ] theData, int searchFor)
{
}
}
```







Previous

Back to Overview

Next

You Have Passed All Test Cases!

Test Cases:

Case	Expected	Results	Pass/Fail	Passed In
#1	True	True	Pass 	<i>findMe (theData, 5)</i>
#2	True	True	Pass 	<i>findMe (theData, 6)</i>
#3	False	False	Pass 	<i>findMe (theData, 21)</i>
#4	True	True	Pass 	<i>findMe (theData, 6)</i>
#5	True	True	Pass 	<i>findMe (theData, 6)</i>
#6	<i>XXX</i>	<i>XXX</i>	Pass 	<i>findMe (XXXXXXX)</i>

Italics Denote Hidden Test Cases

Return to Problem Set

Compile, Save, Run

# Student Screen: Section Gradebook

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Profile

Support

Log Out

## Student Gradebook for CSIS-XXX-NN

Return to Course Home

Sort by: ↓ ↑	Sort by: ↓ ↑	Sort by: ↓ ↑
<u>Assignment Name</u>	<u>Due Date</u>	<u>Grade</u>
<u>Problem Set 1</u>	11/17/2010	100
<u>Recursion</u>	11/18/2010	--
<u>String Practice</u>	11/19/2010	--
<u>Iteration</u>	11/20/2010	--
		Average: 100

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[About J.O.L.T.](#)[Support](#)[Register](#)

# J.O.L.T.

JAVA ONLINE LEARNING TUTOR

Log in

Username

Password

Log in

[Reset Password](#)

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# Faculty Screen: Faculty Home

*J.O.L.T.*

Profile

Support

Log Out

Welcome (Faculty Username)

Administrator  
Announcements

Course Coordinator  
Announcements

No New  
Announcements

Create  
Announcement

## List of Current Courses:

-CSIS-210 Data Structures Section-05  
-CSIS-225 Object Oriented Section-04

## List of Previous Courses:

-CSIS-110 Data Structures Section-03 Fall 2008  
-CSIS-120 Object Oriented Section-08 Spring 2009

# Faculty Screen: Create Problem

*J.O.L.T.*

Profile

Support

Log Out

## Create/Edit Problem

### Problem Information

Title

Category

Method Name

### Description

Return the length of the string provided.

### Parameters

Name	Type	Result
<input type="text" value="param1"/>	<input type="text" value="String"/>	<input type="text" value="int"/>

### Test Cases

Test Case	Input	Output	Hidden
Test Case 1	<input test\""="" type="text" value="\"/>	<input type="text"/>	<input checked="" type="checkbox"/>
Test Case 2	<input test2\""="" type="text" value="\"/>	<input type="text"/>	<input type="checkbox"/>
Test Case 3	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
Test Case 4	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>
Test Case 5	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

Add Test Case

Solution Code:  Publish

```
public stringLength(String param1)
{
    return param1.length();
}
```

Save Problem

Create Problem

## Faculty Screen: Create Problem Set

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**Create Problem Set** [Course Homepage](#) [View Sandbox](#)

Private Pool Sort by: ↓ ↑      Course Pool Sort by: ↓ ↑      Global Pool Sort by: ↓ ↑

Name	Category
<a href="#">Binary Search</a>	Recursion
<a href="#">Boolean Practice</a>	Boolean
<a href="#">Integer Practice</a>	Integers
<a href="#">String Practice</a>	Strings

Name	Category
<a href="#">Binary Search</a>	Recursion
<a href="#">Boolean Practice</a>	Boolean
<a href="#">Integer Practice</a>	Integers
<a href="#">String Practice</a>	Strings

Name	Category
<a href="#">Binary Search</a>	Recursion
<a href="#">Boolean Practice</a>	Boolean
<a href="#">Integer Practice</a>	Integers
<a href="#">String Practice</a>	Strings

**Problem Set**

Title

Description

Category

Name	Category	Point Value
<a href="#">Binary Search</a>	Recursion	<input type="text" value="5"/>
<a href="#">Boolean Practice</a>	Boolean	<input type="text" value="5"/>
<a href="#">Integer Practice</a>	Integers	<input type="text" value="5"/>
<a href="#">String Practice</a>	Strings	<input type="text" value="5"/>
<b>Point Total:</b>		25

[Create Problem Set](#)

# Faculty Screen: Gradebook

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Profile

Support

Log Out

## Gradebook for CSIS-XXX

Save Changes

Return to Course Home

Select Course

Sort by: ↓ ↑	Sort by: ↓ ↑	Sort by: ↓ ↑	Sort by: ↓ ↑
<u>Student Name</u>	<u>Assignment Name</u>	<u>Due Date</u>	<u>Grade</u> <u>Delete</u>
Jon Doe	<u>Binary Search</u>	11/17/2010	80 <input type="checkbox"/>
Jane Smith	<u>Recursion</u>	11/18/2010	85 <input type="checkbox"/>
Jesus Christ	<u>String Practice</u>	11/19/2010	90 <input type="checkbox"/>
			High: 90 Average: 85 Low: 80



# Faculty Screen: Edit Profile

*J.O.L.T.*

Profile

Support

Log Out

## Edit Profile

All fields are required

First Name

Last Name

Email

Confirm Email

Password

Confirm Password

Security Question

Security Question Answer

Save Changes

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About J.O.L.T.

Support

Register

# J.O.L.T.

JAVA ONLINE LEARNING TUTOR

Log in

Username

Password

Log in

Reset Password



- Profile
- Support
- Log Out

Welcome (Course Coordinator Username)

- Administrator Announcements
- No New Announcements
- Create Announcement

Manage Faculty

Genrate Reports

### List of Current Courses:

- CSIS-210 Data Structures Section-05
- CSIS-210 Data Structures Section-06
- CSIS-210 Data Structures Section-07
- CSIS-225 Object Oriented Section-04

### List of Previous Courses:

- CSIS-110 Data Structures Section-04 Fall 2008
- CSIS-110 Data Structures Section-03 Fall 2008
- CSIS-110 Data Structures Section-02 Fall 2008
- CSIS-120 Object Oriented Section-08 Spring 2009

*J.O.L.T.*

Profile

Support

Log Out

## Create Announcement

Title

New Problem Set Activated

Announcement

New Problem Set Activated for students of CSIS-120 (all sections)

### Recipients

CSIS-120-05  
 CSIS-120-04  
 CSIS-225-03  
 Lim, Darren (Administrator)  
 Flatland, Robin (Faculty)  
 Egan, Mary Anne (CC)

Invert  
Selection

### List

All Students  
 CSIS-120-05  
 CSIS-120-04  
 CSIS-225-03  
 Albert, Joseph  
 Bernard, Andrew  
 Bosc, Christina  
 Brennan, Julie  
 Colbert, Stephen  
 Doe, John  
 Sanders, Stephen  
 Schrute, Dwight  
 Smith, John  
 Valenti, Angela  
 Zabinski, Joe

Invert  
Selection

Post Announcement

*J.O.L.T.*[Profile](#)[Support](#)[Log Out](#)

Your announcement has been successfully sent to:

CSIS-120-05

CSIS-120-04

CSIS-225-03

Darren Lim (Administrator)

Robin Flatland (Faculty)

Mary Anne Egan (CC)

[Return to Course Home](#)[Return to Course Select](#)

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Profile

Support

Log Out

## Create Faculty Account

Course

Sort by: ↓ ↑

All fields are required

First Name

Last Name

Email

Confirm Email

Username

Password

Confirm Password

Security Question

Security Question Answer

Course-Section	Assign
<u>CSIS-120-04</u>	<input type="checkbox"/>
<u>CSIS-120-05</u>	<input type="checkbox"/>
<u>CSIS-120-06</u>	<input type="checkbox"/>
<u>CSIS-120-07</u>	<input type="checkbox"/>
<u>CSIS-110-05</u>	<input type="checkbox"/>
<u>CSIS-220-04</u>	<input type="checkbox"/>
<u>CSIS-220-05</u>	<input type="checkbox"/>

Create Account

*J.O.L.T.*[Profile](#)[Support](#)[Log Out](#)

## Edit Course Section For CSIS-XXX

Semester Number Time Days [Update  
Section](#)Powered By 

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# Agenda

- Team Introduction
- Restatement of Problem
- Project Progression
- User Case Narratives
- Data Flow Diagrams
- Requirements Inventory
- Data Design and Dictionary
- Testing
- Student Screens
- Faculty Screens
- Course Coordinator Screens
- Administrator Screens
- What's Next?
- Questions

[About J.O.L.T.](#)

[Support](#)

[Register](#)

# J.O.L.T.

JAVA ONLINE LEARNING TUTOR

Log in

Username

Password

[Log in](#)

[Reset Password](#)

# Administrator Screen: Admin Home

*J.O.L.T.*

Profile

Support

Log Out

Welcome Dr. Lim

Course Coordinator  
Announcements

Faculty  
Announcements

Administrator  
Announcements

Create  
Announcement

Manage  
Course  
Coordinators

Manage  
Faculty

Genrate  
Reports

MAIN  
CONTENT

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[Support](#)

[Log Out](#)

## Create Course Coordinator Account

Sort by:

All fields are required

First Name

Last Name

Email

Confirm Email

Username

Password

Confirm Password

Security Question

Security Question Answer

Course	Assign
<u>CSIS-110</u>	<input type="checkbox"/>
<u>CSIS-114</u>	<input type="checkbox"/>
<u>CSIS-116</u>	<input type="checkbox"/>
<u>CSIS-120</u>	<input type="checkbox"/>
<u>CSIS-210</u>	<input type="checkbox"/>
<u>CSIS-220</u>	<input type="checkbox"/>
<u>CSIS-225</u>	<input type="checkbox"/>

[Create Account](#)

# Administrator Screen: Create Course

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Profile

Support

Log Out

## Create Course

Course Number

Course Title

Description

Assign Course Coordinator

Add Course

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Profile

Support

Log Out

## Manage Students

Back to  
Home

Name	Select
Ernesto Roldan	<input type="checkbox"/>
Stephen Sanders	<input type="checkbox"/>
Lucas Ferrara	<input type="checkbox"/>
Alex Wehren	<input type="checkbox"/>
Joe Rao	<input type="checkbox"/>
Lisa Cuddy	<input type="checkbox"/>
Gregory Haus	<input type="checkbox"/>
Stephen Colbert	<input type="checkbox"/>
Dwight Schrute	<input type="checkbox"/>



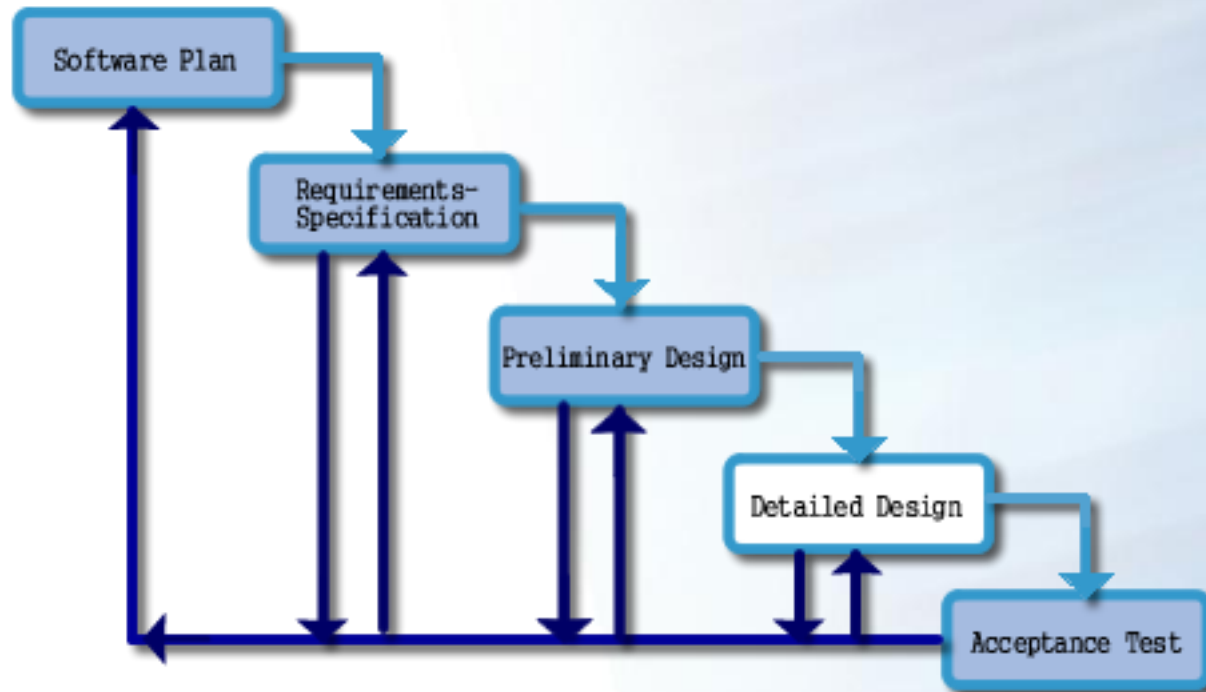
Edit Selected

Add New  
Student

# Agenda

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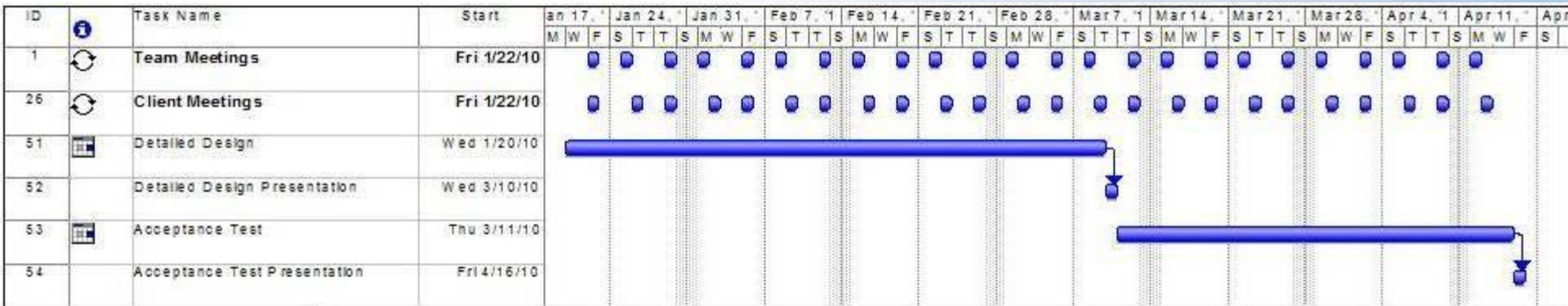
# What's Next









# Timeline Next Semester



Project: Java Online Learning Toolkit  
 Team: 518 Interactive  
 Date: Sun 12/6/09

Task   
 Progress 





*518 Interactive*

*J.O.L.T.*

Questions?

Thank You For Coming