

Preliminary Design

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1. Product Overview and Summary

The clients, Dr. Breimer and Professor Matthews, need an easy to use application that keeps track of Computer Science alumni. C.S-A.C.T.I.O.N.S will be a web application with a collection of alumni profiles that will be accessible by other alumni, current Siena Computer Science majors, and high school students. The goal of C.S-A.C.T.I.O.N.S is to also allow current Siena Computer Science or prospective students a chance to see what career paths Siena Computer Science graduates have taken and allow them to reach out to a specific alumnus. C.S-A.C.T.I.O.N.S will also keep Siena College Computer Science alumni connected to each other.

2. Use Case Narratives

2.1 User (Student)

The user will navigate to the webpage. Once the user is on the webpage, the user is able to interact with the map. The user can click on pins and view the information available to the public on any of the Alumni profiles. If the user is interested in contacting an alumnus, they have the option to send the alumnus a request for contact using the user's own email address. The user will have to enter in contact information and a note indicating why the user wishes to contact the alumnus. The email entered in the contact information will indicate whether the user is a current Siena student or not.

2.2 Alumni

The Alumnus will navigate to the webpage. The alumnus will go to the login screen where the options to register, log on or change password will be offered. To register the alumnus will provide information and answer a survey to fill in the information on the profile. This information will not be shown to the public until the administrator approves the alum. To log on the alumnus will enter a unique username and password that was provided to the alumnus by email to log into C.S.-A.C.T.I.O.N.S. Once logged in, the alumnus has the ability to edit the alumni profile and the ability to change the password. The alumnus is able to disable certain content from being shown on the webpage such as contact information. As well, the alumnus may hide their profile all together from the map. The alumnus has the option to receive a new auto generated password if the alumnus forgets their password. The alumnus also has the ability to view the map and click on pins to view any other Alumni profiles. Alumni are able to send other alums a request for contact by sending the other alum contact information and a note indicating the reason for contact.

2.3 Administrator

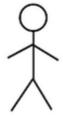
The administrator is in charge of all alumni profiles. The administrator is able to log into C.S.-A.C.T.I.O.N.S with the username and password. Once the administrator has logged in, the administrator has the ability view all of the content generated from the alumni survey. The administrator has the ability to approve or deny pending alumni profiles. The administrator is also able to delete, create, or edit the content on any of the alumni profiles. The administrator can also delete inappropriate content. If the administrator wishes to contact the alumni, they have the option to send a message to all alumni with an account on the system. The administrator can also interact with the map in the same way as the alumni and users.

3. UML Use Case Diagram

3.1 UML Use Case Legend



An activity or action - Actors outside the system will interact with activities.



Actors - External entity that interacts with the activities.



Participation Line – Lines that connect actors with uses showing their participation.

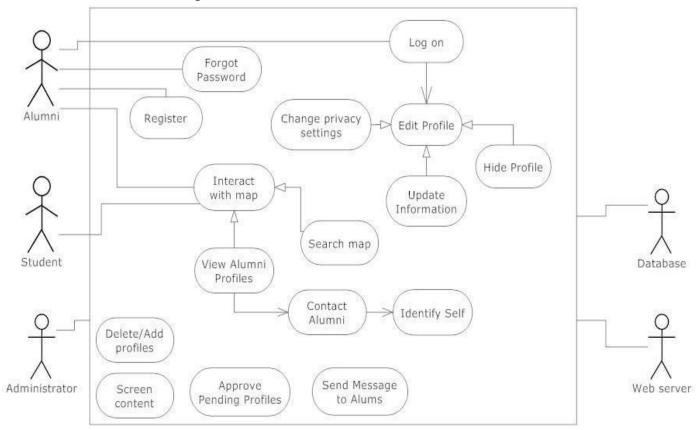


Extends Arrow – Shows sub uses that may not necessarily be accessed when their parent use is accessed.



Includes Arrow – Shows items that are included in a use.

3.2 UML Use Case Diagram

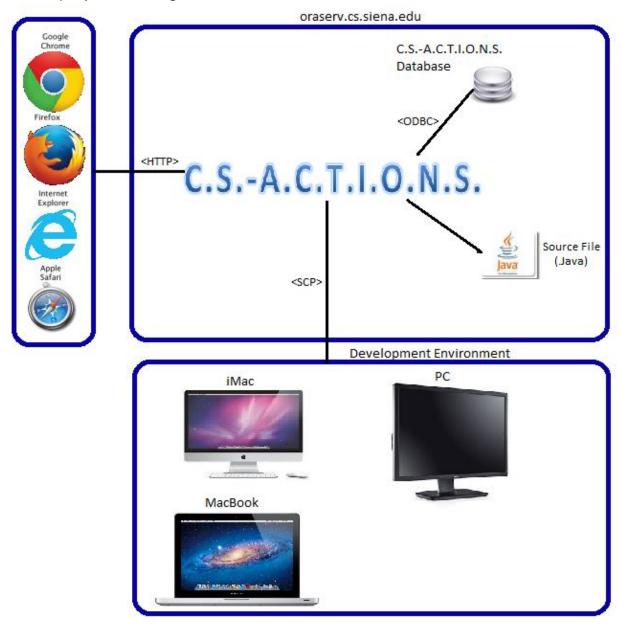


4. Deployment Diagram

4.1 Deployment Diagram Legend

<http></http>	and transmission of messages, and the actions servers and browsers should execute in response to commands.
<scp></scp>	SCP: Secure Copy Protocol is a way for hosts to securely transfer files.
<odbc></odbc>	ODBC: Open Database Connectivity is the standard for accessing a database.
	System Boundary: Items within this boundary are considered to be of the same system.
	Connection: Displays relationships between boundaries.

4.2 Deployment Diagram

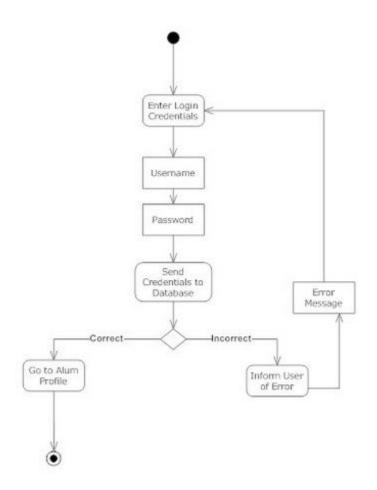


5. Activity Diagrams

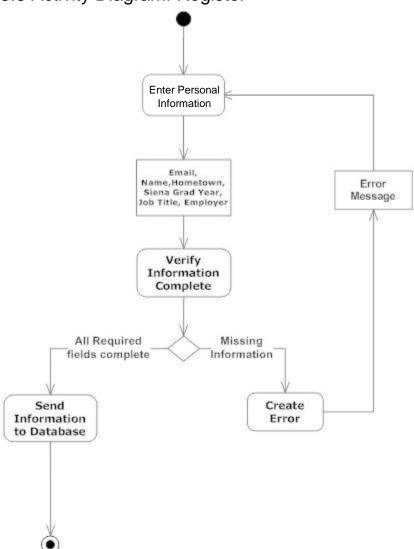
5.1 Activity Diagram Legend Initial Node - The first node, where the process begins. Final Node - The final node in the process. Process is over when activity reaches this node. Activity Node - Describes the activity or step that takes place at this position in the activity. Data Object - Data used as input or output for the process Decision Node - Used to branch in the activity. Usually branch in answer to a question. Flow must follow one of the arrows branching from this node. Split/Join - Either splits or joins two activities that are run simultaneously.

Flow - Shows movement of data from one node to another.

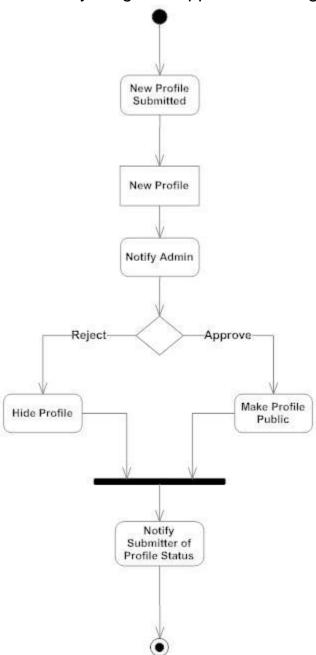
5.2 Activity Diagram: Login

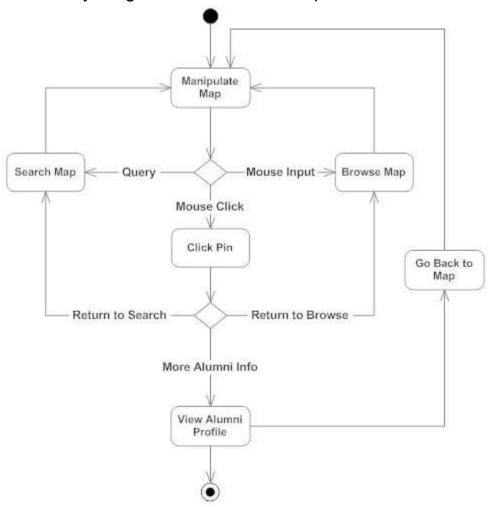


5.3 Activity Diagram: Register



5.4 Activity Diagram: Approve Pending Profiles

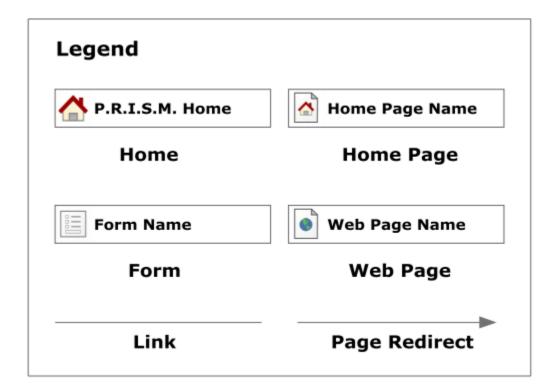




6. Website Map

The web site map shows the structure of our C.S. ACTIONS application. The map indicates how the various web pages interact with each other and how to navigate through every part of our application. Below are the various symbols that help visual represent the planned structure of our application.

6.1 Website Map Legend



Home - This represents the main page of C.S. ACTIONS to a user..

Home Page - Represents the user's main page when they initially login to their account.

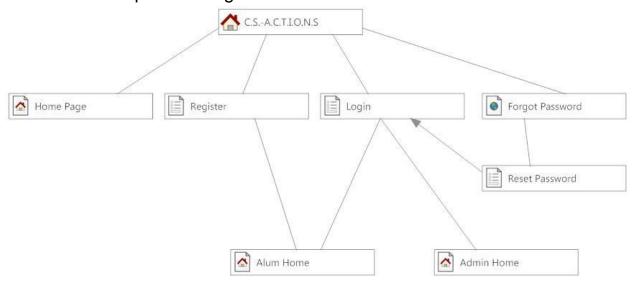
Form - Represents data fields which require user input.

Web Page - Represents a web page within our system.

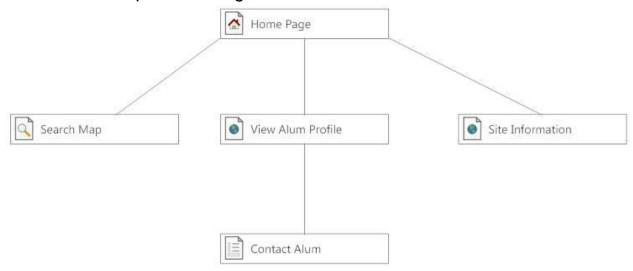
Link - Represents a page being accessible from another page.

Page Redirect - Indicates a forced reroute to a new page depending on the user's action.

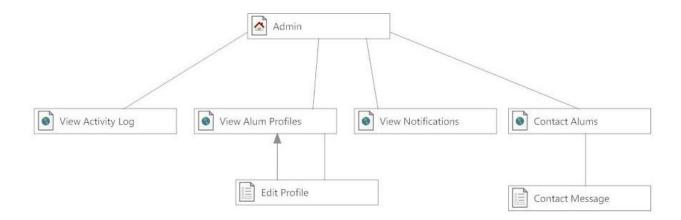
6.2 Website Map: Main Page



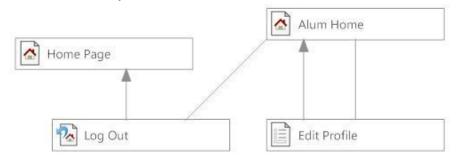
6.3 Website Map: Home Page



6.4 Website Map: Admin Home



6.5 Website Map: Alum Home



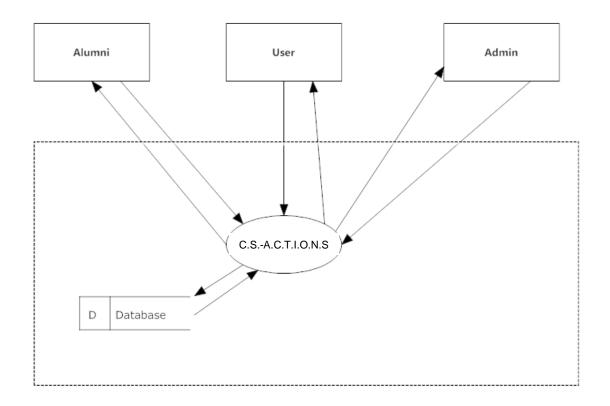
7. Data Flow Diagrams

7.1 Data Flow Legend

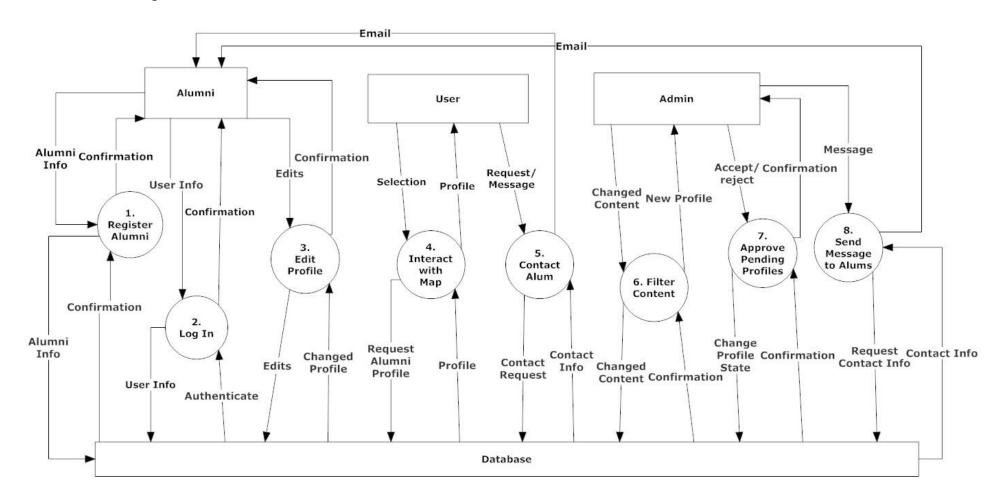
Data Flow Diagrams (DFD) show the movement of data as it flows through the system as well as data flows from outside entities. It is a means to document where data will be retrieved and stored through different processes. Each level of DFD's represent different levels of detail within the system.

	External Entity : Outside source that contributes and/or receives information.
	Process: Manipulates data
c	<u>Data Flow:</u> Shows flow of data between processes and/or entities. C is the data being transferred.
	<u>Data Store:</u> Where data are held temporarily or permanently.
	System Boundary: Anything within these bounds is considered part of the system. Anything outside is considered external to the system.

7.2 Context Diagram



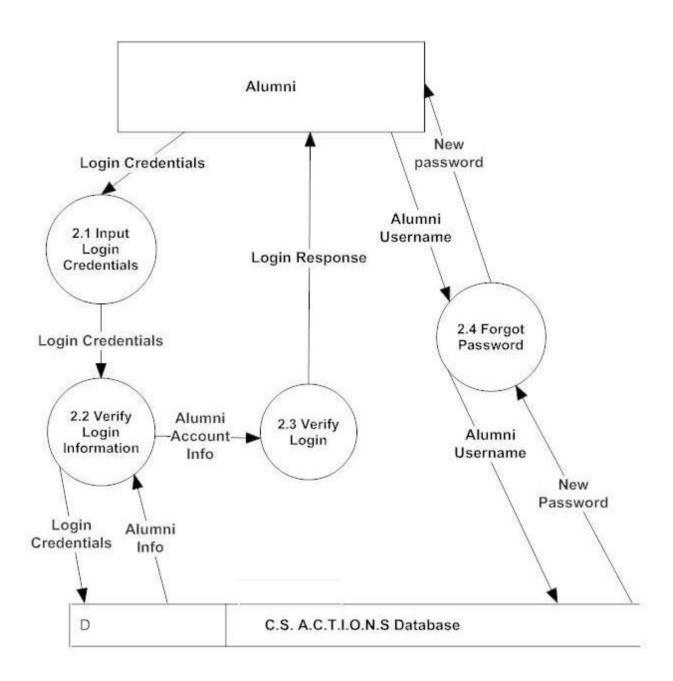
7.3 Level 0 Diagram¹



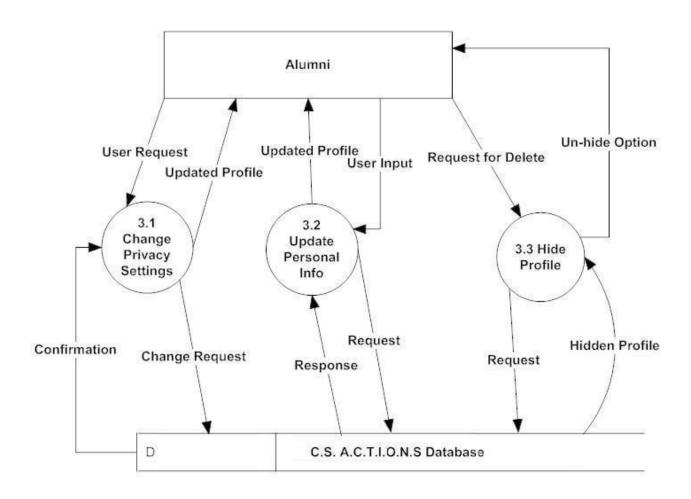
¹ An Admin has all the capabilities of an Alumni and the Alumni has all those of a User.

7.4 Level 1 Diagrams

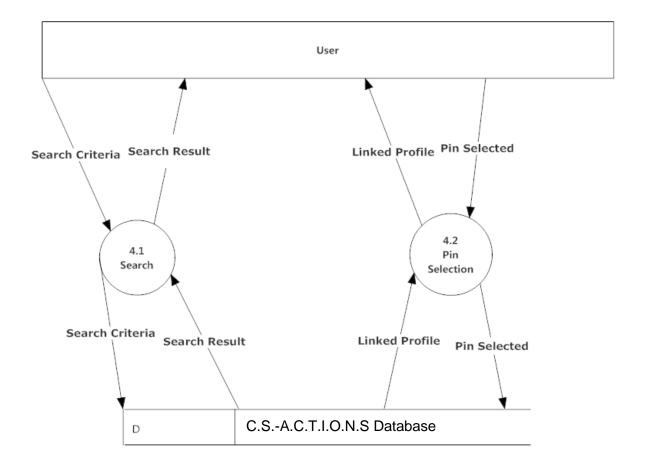
7.4.1 Log on



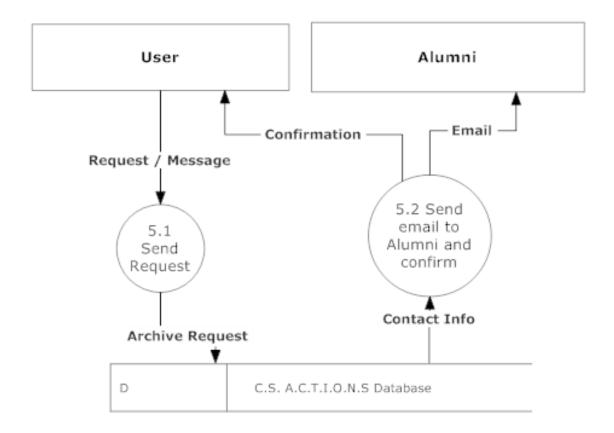
7.4.2 Edit Profile



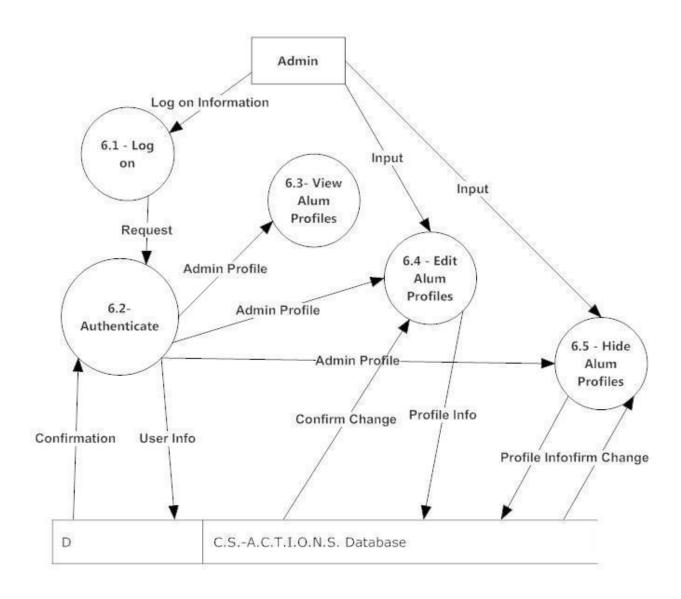
7.4.3 Interact with map



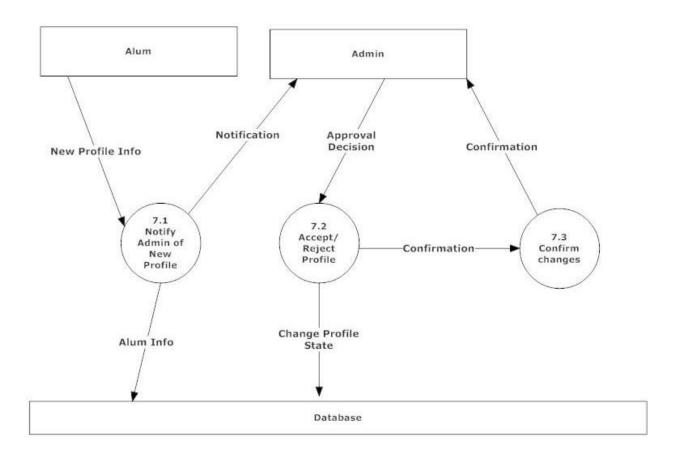
7.4.4 Contact Alumni



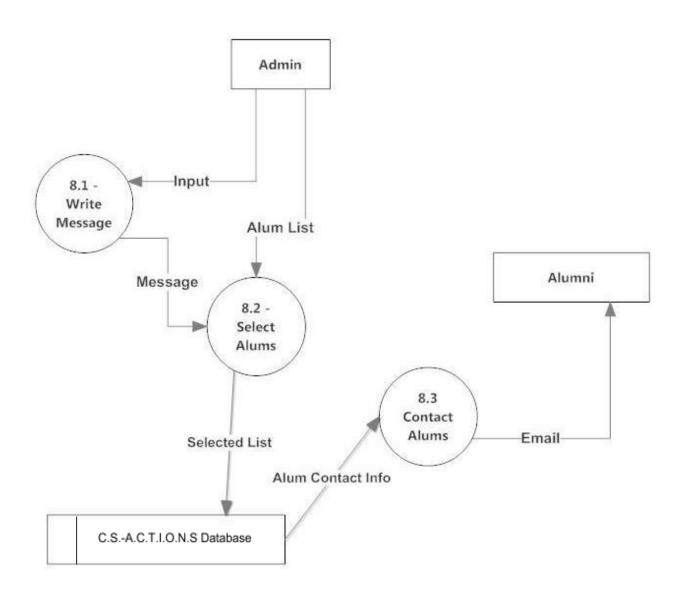
7.4.5 Screen Content



7.4.6 Approve pending profiles



7.4.7. Send message to Alumni



8. Functional Requirements Inventory

8.1 Alumni:

- Will be able to set up an account on C.S.-A.C.T.I.O.N.S.
- Will be able to log into C.S.-A.C.T.I.O.N.S.
- Will be able to change password
- Will interact with map using pins representing locations of alumni
- Will be able to view other Alumni profiles
- Will be able to edit/make changes to own profile
- Will be able to change privacy settings
- Will be able to log out of C.S.-A.C.T.I.O.N.S.

8.2 User:

- Will interact with map using pins representing hometowns of alumni
- Will be able to view Alumni profiles
- Will be able to contact Alumni

8.3 Administrator:

- Will be able to log into C.S.-A.C.T.I.O.N.S.
- Will interact with map using pins representing hometowns of alumni
- Will be able to view Alumni profiles
- Will be able to send message to all Alumni
- Will be able to edit/make changes to any information in an alumni profile
- Will be able to approve/deny pending profiles
- Will be able to log out of C.S.-A.C.T.I.O.N.S.

9. Non-Functional Requirements

The following is a list of non-functional system requirements that specify how the system is intended to work.

- C.S-A.C.T.I.O.N.S will be user friendly
- C.S-A.C.T.I.O.N.S will run efficiently
- C.S-A.C.T.I.O.N.S will be easy to access
- C.S-A.C.T.I.O.N.S will be fully functional on multiple browsers
- C.S-A.C.T.I.O.N.S will be stable

10. Data Dictionary

Data Name	Applicable To	Data Type	Data Size	Description	Acceptable Input	Good Example	Bad Example	Notes
userName	Add user to system	varchar	6 - 30 characters	email to be used to log in to the system	email address	admin@siena.edu	username	Username must be unique
password	Add user to system	varchar	6 - 30 characters	password to be used to log in to the system	Ascii characters 65 to 122	KBC715r	password	Must include on capital letter and one number
firstName	Add user to system	varchar	1 - 30 characters	name to show on profile	A-z, a-z, -	Mark	M@rKy M@Rkk	
lastName	Add user to system	varchar	1 - 50 characters	name to show on profile	A-z, a-z, -	White	WH!t3	
sessionTime	alum/admin	date	Date	Date of log in	Date format	9:09 11/10/2014	0:00:00	
picture	Add user to system	varchar	0-64 characters	filename to profile picture	path of picture file	picture of alum	picture of bear	
alumnHometown	Edit profile, All users who view profiles	varchar	0-50 characters	hometown alum is from	Ascii characters 65 to 122	Brunswick	B-wick	
highschoolName	Edit profile, All users who view profiles	varchar	0-50 characters	high school alum graduated from	Ascii characters 65 to 122	Tamarac High School	T-rac	
highschoolState	Edit profile, All users who view profiles	varchar	2 characters	state high school is located in	A-Z	NY	11th state	

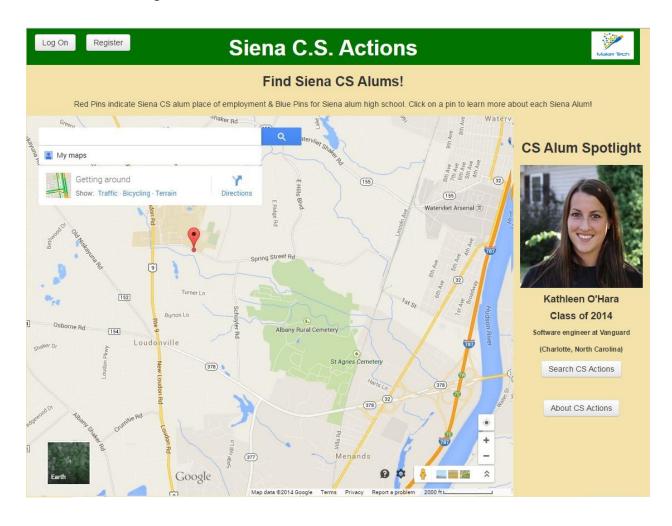
	Edit profile, All users who view			year graduated				
sienaGradYear	Edit profile, All users who view	number	0-128	from siena	Ascii characters 32 to 122	2015	I do important stuff	
jobResponsibilities	Edit profile, All users who view profiles		0-1024 characters	job position description of/responsibilites at job	Ascii characters 32 to 122	Write code, write test scripts to test code	Make that C@\$H M0n3y \$\$\$\$	
employer	Edit profile, All users who view profiles	varchar	0-64 characters	name of company employed at	Ascii characters 32 to 122	Pitney Bowes	P!tn3y B0w3\$	
aboutMe	Alum Profile View	varchar	0-2048 characters	Brief description about alum	Ascii characters 32 to 122	I like computers	I am ^&^%\$	
pastJobTitles	Alum Profile View	varchar	0-512 characters	List of past job titles	Ascii characters 32 to 122	Software Engineer	Homeless	
pastEmployers	Alum Profile View	varchar	0-512 characters	List of past employers	Ascii characters 32 to 122	EMC	<>	
mostImportantClass	Alum Profile View	varchar	0-64 characters	most useful class at siena	A-Z, a-z	Software Engineering	Philosophy	Will be asked on entry survey
mostImportantClassDescription	Alum Profile View	varchar	0-2048 characters	Description of most useful class	Ascii characters 32 to 122	A paragraph describing why that course was important	An off topic answer	Will be asked on entry survey
professionalAdvice	Alum Profile View	varchar	0-2048 characters	Personal professional advice	Ascii characters 32 to 122	Professional Advice	An off topic answer	Will be asked on entry survey

prospectiveAdvice	Alum Profile View, Edit Profile	varchar	0-2048 characters	Advice to give to perspective students	Ascii characters 32 to 123	Advice for prospective student	An off topic answer	
sienaDecision	Alum Profile View, Edit Profile	varchar	0-2048 characters	Why the alum decided to come to Siena	Ascii characters 32 to 124	"I decided to attend Siena becauase they have the best Computer Science department in the world"	An off topic answer	
sienaRecommendation	Alum Profile View, Edit Profile	varchar	0-2048 characters	Would they recommend Siena and why they answered in that way	Ascii characters 32 to 125	I would/wouldn't recommend Siena because	(*#&@	
sienaBest	Alum Profile View, Edit Profile	varchar	0-2048 characters	The best part of coming to siena	Ascii characters 32 to 126	"My best Siena experience was"	An off topic answer	
sienaWorst	Alum Profile View, Edit Profile	varchar	0-2048 characters	The worst part of coming to Siena	Ascii characters 32 to 127	"My worst Siena experience was"	An off topic answer	
sienaInternshipExperience	Alum Profile View, Edit Profile	varchar	0-2048 characters	description of internships taken in college	Ascii characters 32 to 128	Pitney Bowes	P!tn3y B0w3\$	
sienaResearchExperience	Alum Profile View, Edit Profile	varchar	0-2048 characters	descriprion of research done at Siena	Ascii characters 32 to 122	"My research at Siena included"	Research done elsewhere or off topic	
userActivity	Interact with map, logon	varchar	0-128 characters	a log of profile updates	Ascii characters 32 to 122	<username> <fields updated=""> <time></time></fields></username>	Someone changed something	name/field updated/ time
profileState	Approve pending profiles	number	2 bits	privacy state of profile 0: hidden 1: pending 2:public	0-2	0	10000	
companyCity	Мар	varchar	0-64 characters	city job is located in	Ascii characters 32-122	1	Hogwarts	

resetPassword	Reset password	char	10 characters	auto generated password used when password is reset	A-Z, 0-9	a7s4vb9ds7	password
employerLat	Interact with map	float	6 digits	Employer latitude coordinate	0-9, -	-42.6674	infinity
employerLng	Interact with map	float	6 digits	Employer longitude coordinate	0-9, -	42.6677	infinity
highschoolLat	Interact with map	float	6 digits	High school latitude coordinate	0-9, -	81.6677	infinity
highschoolLng	Interact with map	float	6 digits	High school longitude coordinate	0-9, -	45.5657	infinity

11. Prototypes for Discovery

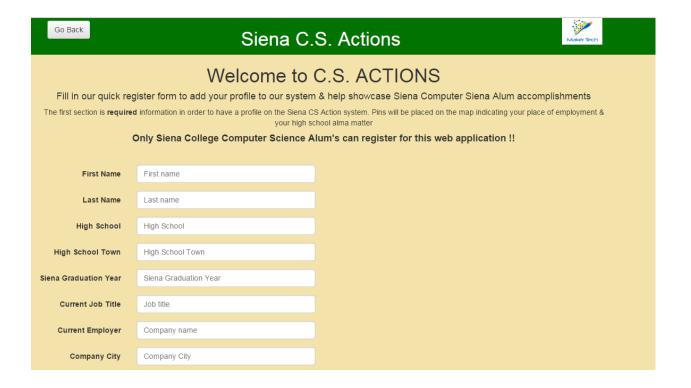
11.1 Home Page



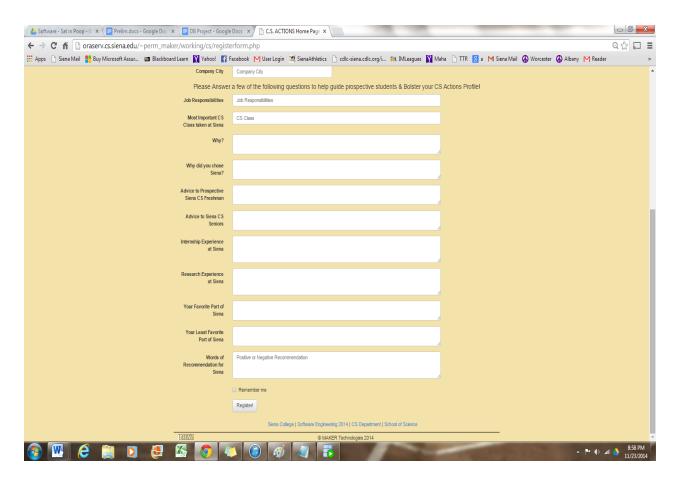
11.2 - Log in Form



11.3 - Register Screen (1 of 2)



Register Screen(2 of 2)



11.4 - Display Pin



12. Testing Plan

12.1 Overview and Strategy

C.S.-A.C.T.I.O.N.S. is a web application; therefore, it will be tested to make sure it functions properly on each major web browser. The web browsers to be tested on are Google Chrome, Internet Explorer, Mozilla Firefox, and Apple Safari. A number of unit tests were created using the functional requirements and will be used to test C.S.-A.C.T.I.O.N.S. In addition, all non-functional requirements will be evaluated to ensure that all of them are met. The testing plan will be elaborated on more thoroughly in the detailed design stage of the waterfall model.

12.2 Acceptance Test

Once the unit tests have been completed, an acceptance test will be executed to ensure that all of the functional requirements have been met. Once the acceptance test is completed, MAKER Technologies and the clients, Dr. Eric Breimer and Professor Jim Matthews, will decide whether or not all of the requirements have been sufficiently met. MAKER Technologies will design the acceptance test plan using the functional requirements gathered in previous stages.

12.3 Unit Tests

The unit tests are specific tests that will be run to ensure that the system is running properly. The unit tests have directions in the each case to direct the tester on what to input and what to look for when a test is run.

12.3.2 Test Cases

The test cases for the C.S.-A.C.T.I.O.N.S system were outlined by the team members of MAKER Technologies using the functional and non-functional requirements gathered thus far. The test cases will be used to determine whether the system meets the needs of the clients, Dr. Eric Breimer and Professor Jim Matthews, and also to ensure that the system functions properly.

12.3.1 Directory

Pass/Fail Status	Unit Number	Unit Test Name	Date Last Tested	Comments or brief description	Integrated with these units
	1	Login		Allows access to profiles	
	2	Alumni Edit Profile		Change content on an Alumni profile	1
	3	Admin Pending Profiles		Approve/Reject newly created Alumni profiles	1
	4	Register		Allows alum's to register an account on C.S Actions	1
	5	Map Interact		Allows users to interact with embedded Google Map	
	6	Screen Content		Allows admin to screen content on accounts	
	7	Contact Alum from Profile		Allows users to contact alum's with accounts	
	8	Admin Contact Alum		Allows admin to reach out to alum's with accounts	
	9	Place Alum on Map		Places a pin on Google Map in correct location for alum	
	10	Linked-In API Connection		Allow the person to sign in with Linked-In and send an automated message to fellow Siena CS Alums inviting them to CS Actions	
	11	Reset Password		Allows user to reset password	1

12.3.2 Unit 1: Login Process

	1 63	st Cases	_				_			
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	1.001	No Username, No Password	No input	Press Login	Empty Login Form	Error Message				
	1.002	Correct Username, No Password	Username	Enter Username, Press Login	Login form with Username	Error Message				
	1.003	No Username, Correct Password	Password	Enter Password, Press Login	Login form with Password	Error Message				
	1.004	Incorrect Credentials	Wrong Username and password	Enter Username and Password, Press Login	Login form completed	Error Message indicating incorrect credentials				
	1.005	Correct Credentials Alumni	Correct Username and Password	Enter Username and Password, Press Login	Login form completed	Display Alumni Homepage				
	1.006	Correct Credentials Admin	Correct Username and Password	Enter Username and Password, Press Login	Login form completed	Display Admin Homepage				
F	= Unit Su	mmary	0%	passing	0	passed		Date of la	st test =	
	6	tests			0	failed				

12.3.2 Unit 2: Alumni Edit Profile Process

	163	t Cases								
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	2.001	Put profile in editable state	Edit Button Clicked	Click Edit Button	Alum Profile in Normal State	Alum Profile in editable state				
	2.002	Change Picture	Select change picture	Click Change Picture	Alum Profile in Editable State	Form shown allows uploading of picture file				
	2.003	Upload New Picture	Input picture file	Select picture file on computer; Press submit	Form shown allowing picture to be uploaded	Alum Profile has new picture; Profile still in editable state				
	2.004	Change Employer	Click new employer button	Click new employer button; enter in new employer name	Form asking for new employer	New employer inputted is saved and shown on profile				
	2.005	Change Profile Text Fields	Edit text fields of alum information	Edit text fields; press save changes	Alum Profile in Editable State	Alum inputted changes are saved and shown on profile				

	8	tests			0	failed	
F	= Unit Summary		0%	passing	0	passed	Date of last test =
	2.008	Relocate Employment Pin on Map	Input new job location	Input new job location; Press save	Alum Profile in Editable State	Show user where new pin is located; Prompt for yes/no to keep change; If yes, relocate pin permanantely	
	2.007	Change Privacy Setting	Click change privacy setting; Select new setting	Click change privacy setting; Select new setting; Press save	Alum Profile in Editable State	Profile is now in specified privacy setting	
	2.006	Change Job Title	Click new job title	Click new job title; Enter in new job title	Form asking for new job title	New job title inputted is saved and shown on profile	

	Tes	t Cases								
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	3.001	Admin accept profile	Accept button clicked	Click accept button	Alum profile in pending state	Alum profile in public state				
	3.002	Admin reject profile	Reject button clicked	Click reject button	Alum profile in pending state	Alum profile in hidden state				
F	= Unit Su	nmary	0%	passing	0	passed	-	Date of la	st test =	-
	2	tests			0	failed				

12.3.4 Unit 4: Register

	1 e	st Cases		-	-		-	-		
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	4.001	No first name	No input	Press "Join" button	Empty first name field	Error Message indicating empty first name field				
	4.002	No last name	No input	Press "Join" button	Empty last name field	Error Message indicating empty last name field				
	4.003	No email	No input	Press "Join" button	Empty email field	Error Message indicating empty email field				
	4.004	No password	No input	Press "Join" button	Empty password field	Error Message indicating empty password field				
	4.005	Enter first name, last name, email, password, and click join button	First name, last name, email, password, button action	Enter first name, last name, email, password, and click join button	First name, last name, email and password entered into appproriate fields	Message confirming successful registration				
	4.006	Enter required fields (City and	City, State, Graduation	Press "Create My		Message confirming				

	state, Graduation year, Job title, Company)	year, Job, Title, Company	successful creation of profile	
F	= Unit Summary	0% passing	0 passed	Date of last test =
	6 tests		0 failed	

12.3.5 Unit 5: Interacting with Map

	Test Ca	Test Cases								
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	5.001	Search Map	Search criteria, locations, employer	Enter search criteria	All pins	filtered and correct pin results				
	5.002	Info Maps to correct Pin	Accurate: Info/Location	Check info shown with pins	Plain map with pins, no info displayed on map	Correct Info displayed				
	5.003	Map Functionality	Zoom/drag	Zoom and drag map	Plain map	Proper reactions to interactions				
	5.004	Select Pin	Click on pin	Click on pin	Nothing selected	Proper profile displayed with pin				
F	= Unit Summary		0%	passing	0	passed		Date of la	st test =	
	4	tests			0	failed				

12.3.6 Unit 6: Administrator Screen Content Process

	Te	st Cases								
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	6.001	Allow Admin to put alum profile in editable state	Press Edit on Alum profile page	Press Edit and then edit a field on profile	Alum profile in normal state	Alum profile in editable state				
	6.002	Allow Admin to save changes	Edit information	Edit information; then press save	Alum profile in editable state	Alum profile in normal state with saved changes				
	6.003	Allow Admin to hide profile	Press Hide Profile	Press Hide Profile button	Alum normal profile	Alum profile now hidden from the site				
	6.004	Allow Admin to disregard changes	Press edit changes; then press disregard button	Press edit; Make edit; Disregard button pressed	Alum normal profile	Alum original profile is shown; any changes are not saved				
F	= Unit Su	mmary	0%	passing	0	passed		Date of la	st test =	-
	4	tests			0	failed				

MAKER Technologies

12.3.7 Unit 7: Contact Alumni from Profile Test Cases

Tact	Cacac	

	I e	st Cases							_	
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	7.001	Contact Button shown	Locate contact button	Look for contact button	Contact button shown	Contact button leads to form				
	7.002	Fill out Form	Fill out form and hit submit to see completed form	Fill out form; Press done	Empty form	Complete form with fields filled out				
	7.003	Contact Alum	Press Send; Alum should recieve an email	Press send	Completed form	Alum gets email message with form message in it				
	7.004	Contact Button not shown for certain alums	No contact button available to be clicked	Nothing	Alum profile with no contact button	No contact button will be shown for this alum				
	7.005	Email correct Alum	Send email to alum	Send contact message to alum	Completed form	Correct alum recieves correct message				
F	= Unit Su	mmary	0%	passing	0	passed		Date of la	st test =	
	5	tests			0	failed				

	10	Si Cases								
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	8.001	No message	No input	Press send	Empty message alumni form	Error message				
	8.002	Input Message	Message in message field	Type message, press send	Complete message form	Send message to all alumni emails				
F	= Unit Su	mmary	0%	passing	0	passed		Date of la	st test =	
	2	tests			0	failed				

12.3.8 Unit 9: Place Alumni on Map

Test	Cases
1636	Cases

		31 04303						-		
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	9.001	Town and School Name			No Pin on map	Pin in correct positin on map				
	9.002	Town and Company Name			No Pin on map	Pin in correct positin on map				
	9.003	No Town and School Name			No Pin on map	Request for town info				
	9.004	No Town and Company Name			No Pin on map	Request for town info				
	9.005	No Town and No School Name			No Pin on map	Request for Info				
	9.006	No Town and No Company Name			No Pin on map	Request for Info				
F	= Unit Su	mmarv	0%	passing	0	passed		Date of la	st test =	

0 passed = Unit Summary 0% passing 0 failed tests

Date of last test =

12.3.9 Unit 10: Linkedin API Connection

	' '	est Cases								
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	10.001	Show Linked-In Button	Add Linked- In API javascript	Add Linked- In API javascript; load in browser	Register Form	Register Form shows Linked-Inlog in option				
	10.002	Log in with Linked-In	Press Linked-In log in	Press log in with Linked- In button; Confirm log in	Log in form	Successfully log in correct alum				
	10.003	Incorrect Log in with Linked-in	Press Linked-In log in	Press log in with Linked- In button; Confirm log in	Log in form	Display error; reshow log in form				
	10.004	Send Linked-In Message	Press contact Linked-In connects option	Press contact Linked-In connects option	Register Form	Send Linked- In message to connects				
	10.005	Send Linked-In Message to only CS Siena Alums	Press contact Linked-In connects option	Press contact Linked-In connects option	Register Form	Send message to only CS Siena alums				
	10.006	Do not send message if button not clicked	Linked-In message option not clicked	Regiser form filled out without Linked-In option	Register Form	Do not send message				

		sele	ected				
F = Unit Summary		0% pas	ssing 0	passed	Da	ate of last test =	
	6 tests		0	failed			

12.3.10 Unit 11: Reset Password

	Tes	t Cases	-							
Pass/Fail Status	Test Number	Description	Action to perform test (input)	Steps to be Executed	State Before Test	Expected result	Observed result	Comments	Tested By	Test Date
	11.001	Forgot password screen	press forgot password button	press forgot password button	Login screen	move to forgot password screen				
	11.002	Input email	Input email	Input email, press button	Forgot password screen	New password sent to alum email, confirmation displayed				
	11.003	No email	no input	no input, press button	Forgot password screen	Error displayed				
F	F = Unit Summary			passing	0	passed		Date of	last test =	-
	3 te	ests			0	failed				

13. Environments

13.1 Development Environment

PC:

Operating System: Windows 7 Enterprise (x64) Service Pack 1 (build 7601)

Processor: 3.20 gigahertz Intel Core i5-3470

RAM: 6100 Megabytes Usable Installed Memory HDD: 499.78 Gigabytes Usable Hard Drive Capacity

MAC:

Model Name: iMac
Model Identifier: iMac12,1

Operating System: OS X Lion 10.7.5
Processor Name: Intel Core i5
Processor Speed: 2.5 GHz
Memory: 4GB
HDD: 500GB

Server:

Server Name: oraserv.cs.siena.edu Operating System: CentOS 5.2 (final)

CPU: Intel Xeon 2.66 GHz CPU

RAM: 8 GB of Memory

13.2 Operating Environment

CS-ACTIONS will be a web-based application and will be able to run on any operating system including, Mac, Windows, or Linux, and on any browser such as Google Chrome, Mozilla Firefox, Microsoft Internet Explorer, or Apple Safari.

13.3 Maintenance Environment

Most of the maintenance to this system will be done in the Software Engineering lab on the machines listed in section 1.7.1.

14. Testing Requirements

Our team will ensure C.S.-A.C.T.I.O.N.S. functions properly by continually testing throughout the development step. Our testing will include creating sample data such as test alumni profiles, test maps, and test alumni submissions. The test alumni profiles serve the purpose of ensuring our database can handle our desired amount of alumni information before our prototype is ready to be delivered to our clients. The test maps will ensure that our mapping interface will withstand a variety of different abnormal cases, such as alumni from out of the area and out of the country. The test alumni submissions will test our screening process that integrates an alumni survey into said alumni's profile on our system. Testing will not be done only at the conclusion of our first system but will be done continually throughout the year to ensure that all parts of the system can be integrated together with minimal errors. Testing will be done with input from our clients to ensure that the system will meet their every need. Before our system will be released for public use it will need to pass a strict series of tests that ensure it will be able to withstand rigorous use.

15. Appendices

Appendix A: Sources of information

Our primary source of information will come from Dr. Breimer and Professor Matthews through emails, and client meetings. Other sources of information include lectures from Dr. Meg Fryling in class, Dr. Lim in lab and through different reliable World Wide Web resources.

Appendix B: Glossary of Terms

API - Application Programming Interface specifies a software component in terms of its operations, their inputs and outputs and underlying types

CS-ACTIONS – Computer Science Alumni Connection Through Interactive Open Networking System – This is the name and acronym for our system.

Gantt – a chart in which a series of horizontal lines shows the amount of work done or production completed in certain periods of time in relation to the amount planned for those periods.

HTML – HyperText Markup Language – language used to develop websites

Java - Object-oriented programming language developed by and maintained by the Oracle Corporation

JavaScript - Computer programming language used primarily in web browsers for based client-side scripts

SQL - Structured Query Language, language used to develop databases

Appendix C: Timeline

	Time Span		
<u>Task</u>	(days)	<u>Start</u>	<u>Finish</u>
Form Teams	1	9/5	9/5
Build Software Plan	10	9/10	9/18
Build Team Website	15	9/15	9/29
Software Plan Due	1	9/19	9/19
Software Plan Presentation	1	9/23	9/23
Team Website Due	1	9/30	9/30
Requirements Specifications	34	9/24	10/27
Requirement Documents Due	1	10/28	10/28
Requirement Presentation	1	10/28	10/28
Preliminary Design	28	10/29	11/25
Preliminary Design Due	1	11/26	11/26
Preliminary Design Presentation	1	12/2	12/2
Team Meetings	83	9/10	12/1
Client Meetings	76	9/11	11/25

