ITIS-6112 Software Systems Design and Implementation

Edu Avenue

Project Report



Group 2 5-6-2015

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1. Executive Summary

1.1 Project Overview

Edu Avenue application would provide undergraduate and graduate students platform for communicating and gathering information which will help them decide the right University. Often students find it difficult to find right university as per their interest and constraints. Too many factors like research opportunities, on campus culture, fee, and cost of living play important role when it comes to select a specific university other than just the university ranking. Using Edu Avenue website prospective students would be able to view university profiles, get all the information about the same, would be able to interact with currently enrolled and alumni of the university they would like be part of. Currently enrolled students would be able to post and follow up coming and ongoing events on the campus.

1.2 Purpose and Scope of this Specification

The main purpose of this project is to give a clear and concise description of the functionality of the University Selection System to help the current, alumni and prospective students to be connected with each other like a social networking website. This system further provides the facility to the professors of the universities to be connected with the students and help them out regarding the courses offered first hand. Social Networking is a system which the students are actively engaged in and this system will be very helpful to retrieve relevant data to the prospective students. This system further helps the alumni to be associated/connected with the universities. This system basically helps the prospective students to connect with the university and accumulate relevant information using the university profile, discussion boards, etc.

1.2 Project Scope and Objectives

This project will consist of creating a web application to which students, universities and professors can login in and access Student profile, university profile and professor profile, share information, and interact. The application will include following features:

Audience

The intended audience for this project are the students who want to search for a university depending on various criteria. This project will help the new students find a suitable university on various factors such as fees, the research areas provided by the college, cost of living, on-campus opportunities etc.

In scope:

For Prospective Students:

- View University, Professor and Student Profiles
- Interact with fellow Students and Professors
- Post and Comment on University public forum.

For Current Student:

- View University, Professor and Student Profiles
- Interact with fellow Students and Professors
- Post and comment on University Private and Public Forum.

- Provide information to the prospective students about the University.
- View and post Events on the University Private Forum

For Alumni:

- View University, Professor and Student Profiles
- Interact with fellow Students and Professors
- Post and Comment on University Public and Private forum.
- View but not post on the Events on University Private Forum

For Professor:

- View University, Professor and Student Profiles
- Interact with fellow Students and Professors
- Post and comment on University Private and Public Forum.
- Provide information to the prospective students about the Department.
- View and post events on the University Private Forum

For Administrative Staff:

- View University, Professor and Student Profiles
- Interact with fellow students, professors
- Post, comment and delete on University Private and Public Forum.
- Update/Delete information of the University on the profile
- Post, View and Delete events on the University Private Forum

Out of Scope:

The following items in phase 3 of Edu Avenue Project are out of scope:

- The Perspective Student cannot be recommended to be placed to the university even if the student has a good reputation on the University public discussion board.
- No other group can be created except the original University group already created during design phase.
- There will be no integration at this phase with any other API's Eg: LinkedIn, Facebook.

2. Requirements

This section describes all the requirements for this product. Each requirement is give a priority and a short description for the designers to understand the importance of each requirement.

2.1 Functional Requirements

Following are the functional requirements of this product

Req#	Requirement	Comments	Priority	Date Rvwd	SME Reviewed / Approved
EDU_A_01	The system should allow authenticated students, professor and university Admin to log in,	Functions of the product can be accessed only by the authorized users.	1		
EDU_A_02	The system should allow registration of different actors (Students, Professor, and university Admin).	Registration is one the important features of this product	1		
EDU_A_03	The system should allow authenticated university admin to add/update the University profile and statistics.)	This feature allows the university Admin to keep track of University profile statistics.	2		
EDU_A_04	Perspective students can search for Universities based on their academic	This feature will help the perspective students to search for universities.	1		
EDU_A_05	The system should allow each actor to update their profile.	This feature will allow the actors to update their profile.	1		
EDU_A_06	The system should allow authenticated actors to add friends	This feature will help actors to get connected to other actors.	2		
EDU_A_08	The system should allow perspective student to post their queries on common discussion board of specific university.	university related	3		
EDU_A_09	The system should allow	This feature will help	3		
	current students, alumni, professors to post answers to perspective student's queries on common discussion board	students to resolve their university related queries.			

	of specific university.			
EDU_A_10	The system should allow current students, alumni, professors to post on internal discussion board of specific university.	This feature will allow current students, alumni, professors to be updated about the ongoing events in university.	3	
EDU_A_11	The system should allow current students, alumni, professors to comment on post on internal discussion board of specific university.	This feature will allow current students, alumni, professors to express their comments about ongoing events in university.		
EDU_A_12	The system should allow authenticated actors to search and view other actor profiles	This feature will help the actors to get information about other actors	2	

2.2 User Interface Requirements

The following will be the User Interface Requirements:

- All screens will have the name of the system and logged in user name on each page.
- The system will have a list of options to help the user navigate through various functions of the system.
- The system will have tooltips for the users which will provide them with some more information about what that feature does for them.

2.3 Usability

This product will be very user friendly. This would be similar to other social networking site. So the users would be comfortable using an already know interface. We would also provide user manual for better understanding of the working of the website.

- The user will be able to search for Universities and profiles of other students of the universities.
- This user manual will also help the users to understand how to use various functions of the system and achieve specific tasks.

2.4 Performance

- Static numerical requirements-
 - This system is expected to host a number of users working in parallel since this system will help the user to multitask. This system will be able to host 200 members parallel.
 - Eg: The user will be able to chat as well as search for university profile at the same time.
- Dynamic numerical requirements- The search research will fetch 95% results within 1 second.

2.4.1 Capacity

- 1. As this product will be running on Apache Tomcat, the minimum number of simultaneous users supported is 200.
- 2. The maximum number of users supported at a time will depend upon the memory and processor of the server on which the product is hosted.

2.4.2 Availability

- Hours of operation- The system will up and running 24 X 7
- Level of availability required- Moderate.
- Coverage for geographic areas- Local
- Impact of downtime on users and business operations- Moderate.
- Impact of scheduled and unscheduled

2.5 Manageability/Maintainability

2.5.1 Monitoring

- 1. A server log will be maintained to keep track of all the server activities.
- 2. Exceptions will handled and logged efficiently.
- 3. Server troubleshooting will be available.

2.5.2 Maintenance

This application will be easy to maintain as this product is not too complex. Any new features will not be too tedious.

2.5.3 Operations

The web-site will be maintaining a session for each user. The session will last for 2 minutes for an idle user after which the user will be logged out.

2.6 System Interface/Integration

EDU Avenue system will be Content management system to store University, students and Professors data. This will allow easy access at any time. A database would be created to store the data of University, students and professor which would be entered by themselves. This is created using MySQL. The system being a web service, it has no restriction on the operating system used. It works on Windows, Linux and Mac. The systems require a local server Apache tomcat or a web server to go live.

2.6.1 Network and Hardware Interfaces

For the Edu Avenue which is a web application, a desktop computer, laptop, tablets, or mobile would be required. Regardless of an operating system, the application can be accessed from Windows, Linux or Mac. The application could be accessed with a browser. A port on the host machine would be accessed and all the data would be forwarded to the guest machine using TCP or UDP. The guest machine would be running

in a web server listening to port 80, so the mapping would be to post 8080 on host machine. Then the application will be accessed with browser to localhost:8080 and browse the website.

2.7 Data Management

The Database system of Edu Avenue would store the following types of data:

- Character or email type for login username.
- Alphanumeric type for password.
- User information
- University Profiles
- Student Profiles
- University Groups

2.8 Standards Compliance

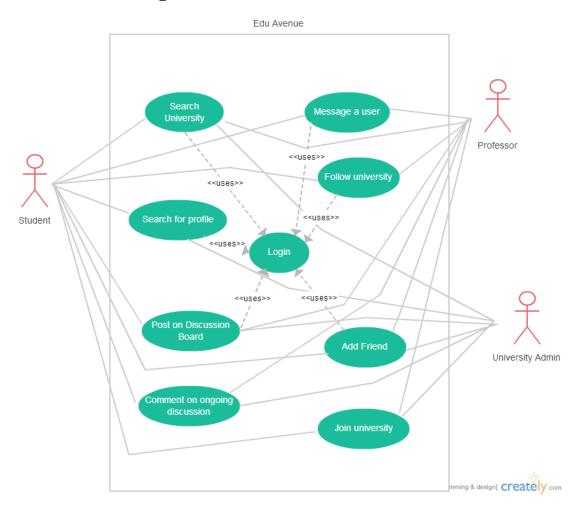
All language used in the software (including manuals and documentation) should comply with current University of North Carolina, Charlotte guidelines for decency and equal opportunities. The data of the players should be stored in the database so that the performance of the player could be traced over time.

2.9 Portability

This web services uses open source tools like WordPress, Apache Tomcat, MySQL. This will be very easy to expand, scale and move. There is no restriction on the operating system used. The web service can be transferred to any system with Apache Tomcat server or over the web.

3. User Scenarios/Use Cases

3.1 Use-case diagram



3.2 Actors:

- New Student
- Current Student
- Alumni
- Professor
- University Admin

3.3 Use Case Description:

Author (s):	Team 2	Date:	03/23/2015

Version: 2.0

USE CASE NAME:	Login	USE CASE TYPE	
USE CASE ID:	Case_1	Abstract:	
PRIORITY:	6	Extension:	
INVOKED BY:	All other use cases except Sign Up		
PARTICIPATING ACTORS:	Student, Professor, University Admin		
DESCRIPTION:	Actors Log in		
PRE-CONDITION:	Open Website		
TYPICAL COURSE OF EVENTS:	Step 1: Enter Login credentials		
	Step 2: Click on Login		
ALTERNATE COURSES:	-		
POST-CONDITION:	Actor Logs in		

Author (s): Team 2 Date: <u>03/23/2015</u>

USE CASE NAME:	Sign Up	USE CASE TYPE		
USE CASE ID:	Case_2	Abstract:		
PRIORITY:	6	Extension:		
INVOKED BY:				

PARTICIPATING ACTORS:	Student, Professor, University Admin
DESCRIPTION:	Actors sign up for website
PRE-CONDITION:	Click on New User
TYPICAL COURSE OF EVENTS:	Step 1: Enter user details
	Step 2: Click Submit
ALTERNATE COURSES:	-
POST-CONDITION:	Actor signs up

Version: 2.0

USE CASE NAME:	Search University	USE CASE TYPE		
USE CASE ID:	Case_3	Abstract:		
PRIORITY:	1	Extension:		
INVOKED BY:				
PARTICIPATING ACTORS:	Student, Professor, University Admin			
DESCRIPTION:	Students and professor can search for universitie	Students and professor can search for universities.		
PRE-CONDITION:	Be logged in			
TYPICAL COURSE	Step 1:Click the search bar and enter keyword to search			
OF EVENTS:				
	Step 2: Get results			
ALTERNATE COURSES:	Step 1a: Click the search bar and select advanced search			
	Step 1b: Select the filters required and enter the keyword			
	Resume at Step 2			
POST-CONDITION:	List of Universities related to keywords and filte	ers will be displayed.		

Author (s): Team 2 Date: <u>03/23/2015</u>

Version: 2.0

USE CASE NAME:	Search for profile	USE CASE TYPE	
USE CASE ID:	Case_4	Abstract:	
PRIORITY:	1	Extension:	
INVOKED BY:			
PARTICIPATING ACTORS:	Student, Professor, University Admin		
DESCRIPTION:	Actors search for other actors		
PRE-CONDITION:	Be logged in		
TYPICAL COURSE	Step 1: Enter the name of the user to search		
OF EVENTS:			
	Step 2: get results		
ALTERNATE COURSES:	Step 1a: Click the search bar and select advanced search		
	Step 1b: Select the filters required and enter the	keyword	
	Resume at Step 2		
POST-CONDITION:	List of users matching the keyword and filters w	rill be displayed	

Author (s): Team 2 Date: <u>03/23/2015</u>

USE CASE NAME:	Post on Discussion Board	USE CASE TYPE	
USE CASE ID:	Case_5	Abstract:	I
PRIORITY:	2	Extension:	ם
INVOKED BY:			

PARTICIPATING ACTORS:	Student, Professor, University Admin
DESCRIPTION:	Users can post to the discussion board.
PRE-CONDITION:	User clicks on the discussion board option
TYPICAL COURSE OF EVENTS:	Step 1: Click on post topic button
	Step 2: Enter the details of the post (Topic and description)
	Step 3: Click post to forum
ALTERNATE COURSES:	-
POST-CONDITION:	Topic is posted to the forum

Version: 2.0

USE CASE NAME:	Comment on an ongoing discussion	USE CASE TYPE	
USE CASE ID:	Case_6	Abstract:	$\overline{\mathbf{Q}}$
PRIORITY:	2	Extension:	
INVOKED BY:			
PARTICIPATING ACTORS:	Student, Professor, University Admin		
DESCRIPTION:	Users comments on an ongoing discussion		
PRE-CONDITION:	User clicks on the specific discussion topic		
TYPICAL COURSE OF EVENTS:	Step 1: User clicks on reply button (comment)		
	Step 2: User enters content of the reply		
	Step 3: User clicks on post reply		
ALTERNATE COURSES:	-		
POST-CONDITION:	Comment is posted.		

Author (s): Team 2 Date: <u>03/23/2015</u>

USE CASE NAME:	Message a user	USE CASE TYPE					
USE CASE ID:	Case_7	Abstract:					
PRIORITY:	3	Extension:					
INVOKED BY:							
PARTICIPATING ACTORS:	Student and Professor						
DESCRIPTION:	Users can send a message to other users	Users can send a message to other users					
PRE-CONDITION:	Visit the user's profile page who you want to set	nd the message to					
TYPICAL COURSE	Step 1: Click on message button						
OF EVENTS:							
	Step 2: Enter the content of the message						
	Step 3: Click on send message						
ALTERNATE COURSES:	Step 2a: User is blocked message is displayed						
POST-CONDITION:	Message sent						

USE CASE NAME:	Follow university	USE CASE TYPE						
USE CASE ID:	Case_8	Abstract:						
PRIORITY:	4	Extension:						
INVOKED BY:								
PARTICIPATING ACTORS:	Students and Professor							
DESCRIPTION:	Follow a university to get relevant information of	Follow a university to get relevant information on your timeline						
PRE-CONDITION:	Visit the university's profile page.							
TYPICAL COURSE	Step 1: Click on the follow button							
OF EVENTS:								
ALTERNATE COURSES:	Step 1a: User is already following the university	(Unfollow is displayed)						

POST-CONDITION:	User is following the University

Version: 2.0

USE CASE NAME:	Add Friend	USE CASE TYPE				
USE CASE ID:	Case_9	Abstract:				
PRIORITY:	5	Extension:				
INVOKED BY:						
PARTICIPATING ACTORS:	Student, Professor, University Admin					
DESCRIPTION:	A user can add another user as his/her friend and the other user needs to accept this					
PRE-CONDITION:	Visit the user's profile who you want to add					
TYPICAL COURSE	Step 1: Click on add friend					
OF EVENTS:						
	Step 2: Second user clicks on the notification					
	Step 3: Second user clicks accept					
ALTERNATE COURSES:	Step 3a: Second user clicks decline					
POST-CONDITION:	Users are added to each other's friend list					

Author (s): Team 2 Date: <u>03/23/2015</u>

USE CASE NAME:	Join university	USE CASE TYPE				
USE CASE ID:	Case_10	Abstract:				
PRIORITY:	6	Extension:				
INVOKED BY:						
PARTICIPATING ACTORS:	Student, Professor, University Admin					
DESCRIPTION:	User can join a university					
PRE-CONDITION:	Visit the university profile page which you want	to join				
TYPICAL COURSE	Step 1: Click on join university button					

OF EVENTS:	
	Step 2: Enter .edu email address
	Step 3: Verify .edu email address
ALTERNATE COURSES:	Step 3a: User does not get email and clicks resend email
	Step 4a: Verify .edu email address
POST-CONDITION:	User has joined the university

3.4 Scenarios

- Login- Students, University profile Admins, Professors can login into the system using their Username and Passwords. This unique combination is maintained in the database.
- Sign Up- Students, University profile Admins, Professors can register for the system and create a unique username and password combination.
- Search University- The student and professor can search for a University.
- Search for profile- The students and professors can search for a student profile, university profile or a professor profile. The results display all the profiles related to the searched term.
- Post on Discussion Board- All the university groups have a forum/discussion board related to them. Only members of the group can post of the discussion board.
- Comment on an ongoing discussion- All the group members can comment on the discussion board.
- Message a user- Any user can message another user only if they are friends with each other. There is an add friend button provided to add the person.
- Follow university- Every university profile page contains a follow button. When enabled, the university updates are displayed on the activity feed of the user.
- Add Friend- Add button is provided to add another user as a friend.
- Join university- Every university has a group. Any user can join the group by clicking on the join button. The user becomes a member of the group and then can post and receive updates of the discussion board.

4. Agile Scrum

Scrum is an iterative and incremental agile software development framework for managing product development. It defines "a flexible, holistic product development strategy where a development team works as a unit to reach a common goal".

- Product Backlog
- Sprint Backlog
- Sprint Planning
- Daily Standup/Scrum Meeting
- Sprint Review

Product Backlog:

I D	Theme	Role	Story	Prior ity	Spri nt
1	User Profiles	Register ed users	As a site member, I want to describe myself on my own page in a semi-structured way. That is, I can fill in predefined fields, but also have room for a free-text field or two.	1	2
2	Login	Register ed users	As a site member, I want to be able to login into the site and see my profile and data relevant to me.	1	2
3	Sign-up	New user	As a new user, I want to be able to sign up and create a new account with my valid information.	1	2
4	Univers ity Profiles	Universi ty Admin	As an University admin, I want to be able to describe my University on the University page in a semi-structured way. That is, I can fill in predefined fields, but also have room for a free-text field or two.	1	2
5	Search	Register ed users	As a registered user, I want to be able to search for other users or Universities and see basic information about the same.	1	2
6	Commo n Discuss ion Board	Register ed users	As a registered user, I want to be able to post and/or comment in the common discussion board of a University .	2	2
7	Closed Discuss ion Board	Member of Universi ty	As a member of a University, I want to be able to post and/or comment in the closed discussion board of the University.	3	2
8	Add Friend	Register ed user	As a registered user, I should be able to add other registered users as friends. (Relationship will not hold till other user accepts)	3	3
9	Chat	Register ed user	As a registered user, I should be able to have a conversation with my friends through instant messaging.	3	3

Sprint Backlog:

The Sprint Backlog is a document that lists the tasks to be performed as part of a Sprint. The main aim is to document the list of activities to be implemented during a Sprint and also implement and possibly deliver a working increment of the software.

Sprint backlog in our application:

Sprint 1 backlog:

I	Rol	Story	Notes	Effo	Prior	Team	Status	Spri
D	e			rt	ity	member/s		nt
1	Mis	Environment	Basic	1d	8	All	Comple	1
	c	setup(XAMPP/WAMP)	installations				ted	
2	Mis	Database installation and	DB	6h	8	All	Comple	1
	c	connectivity	connectivity				ted	
3	Mis	BuddyPress Installation	Basic	4h	8	All	Comple	1
	c		installations				ted	

Sprint 2 backlog:

I D	Role	Story	Notes	Eff ort	Pri ori	Team membe	St at	Sp rin
ע				OIt	ty	r/s	us	t
1	Start point of the applicatio n	Role based registration	Users can register according to the roles.	2d	2	All	Co mp let e	2
2	New Student/Pr ofessor/Ex isting	Add friend	Student/Existing students and Professors can add friends in the network	2d	5	Pragya and Preeti	Inc om ple te	2
	Students	Follow university feature	Student/Existing students and Professors can follow the University of their choice	1d	5	Nikhil and Ojas	Inc om ple te	2
		View and Send messages	Student/Existing students and Professors can send and view messages in their inbox	1d	4	Preeti and Nitin	Inc om ple te	2
		View,Post and comment on discussion board	Student/Existing students and Professors can view post and comment on forum of University	1d	5	Nikhil and Pragya	Inc om ple te	2
3	University Admin	Create events	University Admin can create events on University Forum	6h	5	Nikhil and Nitin	Inc om ple te	2
		Comment and edit any posts on discussion board	University Admin can comment and edit any post on forum	6h	5	Pragya and Ojas	Inc om ple te	2

		Update university information	University Admin can update university information	1d	3	Nitin and Pragya	Inc om ple te	2
4	Professor/ Existing Students	Create and modify events on university page created by them	Professor and Existing Students of the University can create events and modify/delete events created by them	1d	5	Nikhil and Preeti	Inc om ple te	2
5	System	Login validation	The System will validate the email of the user upon signup by sending an email verification.	2d	3	Ojas and Preeti	Inc om ple te	2
		Design Recommender System	Recommendations will be provided based on the search history of the user.	5d	2	Ojas and Nitin	Inc om ple te	2
6	All users	Basic search to search university, student, events	All the users can search for anything using the basic search on the system	1d	3	Nikhil and Ojas	Inc om ple te	2
		Advance search with filters to search particular university profile, student profile.	All the users can use advanced search to search for particular profile of the student, university or professor using filters	2d	2	Nikhil and Nitin	Inc om ple te	2
		View profile	All the users can view profiles of any student, professor or university	6h	6	Preeti and Nitin	Inc om ple te	2

Sprint 3 backlog:

_				17.66	D	Team		C
I D	Role	Story	Notes	Eff ort	Prior ity	memb er/s	Status	Spri nt
		Implement Recommender	Recommendations will be provided based on the search history			Ojas and	Incomp	
		System	of the user.	4d	2	Nitin	lete	3
		Chat	User can do personal or group real time			Pragya and	Incomp	
1	System	functionality	chat.	3d	2	Preeti	lete	3
		GUI	Asthetics of the application	3d	2	Preeti and Nikhil	Incomp lete	3
						Nitini and	Incomp	
		Project Report	Documentation	2d	2	Pragya	lete	3

2	Student/Pro fessor		For joining college group the user is supposed to submit their edu email id and			Ojas		
	168801	Verification of	a verification url will			and	Incomp	
		edu id	send to their id.	3d	3	Nikhil	lete	3

Sprint Planning:

In Scrum, every iteration begins with the sprint planning meeting. The stories that are of the highest priority to the release and the ones which will generate the highest business value are decided during this meeting.

Daily Standup/Scrum Meeting:

The Daily Scrum is a short meeting held every day to coordinate the effort and overcome roadblocks during a Sprint.

Sprint Review Meeting:

A Sprint Review Meeting is held at the end of each Sprint. During the meeting, the team presents what they could achieve by demoing the software functionality (the Increment of Product Functionality). The meeting is informal, with the intention to bring people together and demonstrate progress and seek for feedback.

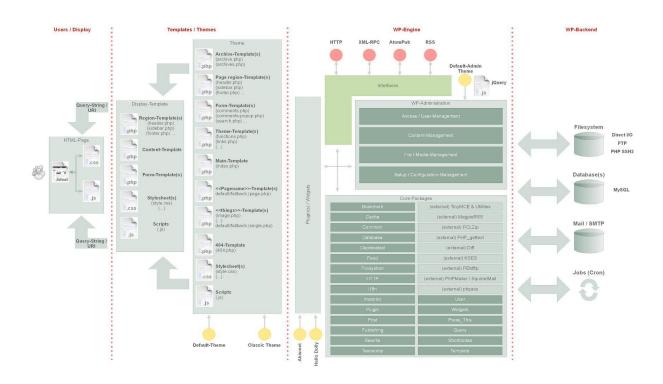
Sprint Retrospective:

The Sprint Retrospective is intended to answer two fundamental questions:

- What went well during the last Sprint that we continue doing?
- What could we do differently to improve?

The Sprint Retrospective meeting must end with a list of action item that have been agreed upon and that will be implemented. Those changes may be added to the Product Backlog.

5. Architecture

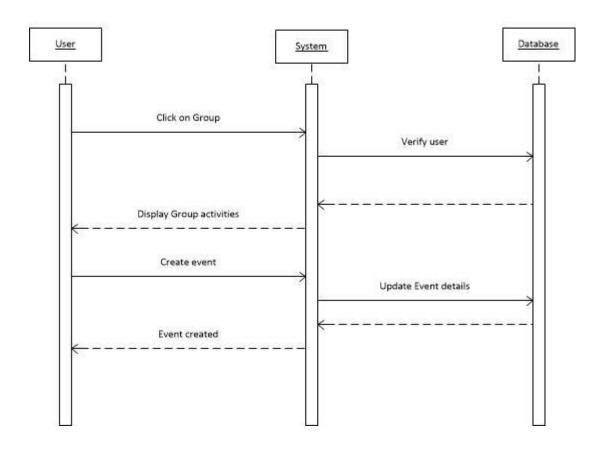


The System is based on a WordPress theme called Buddy Press. The architecture of WordPress is shown above

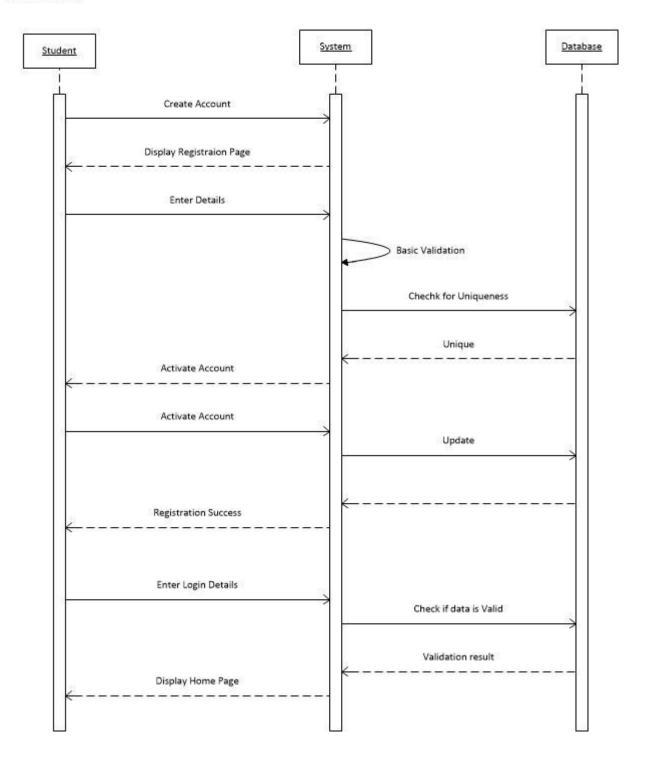
6. UML Diagrams:

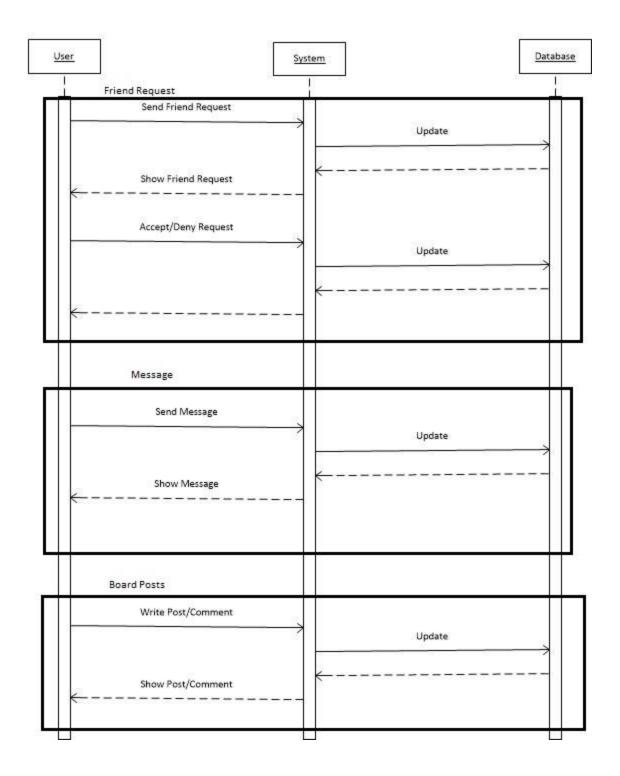
Sequence Diagram:

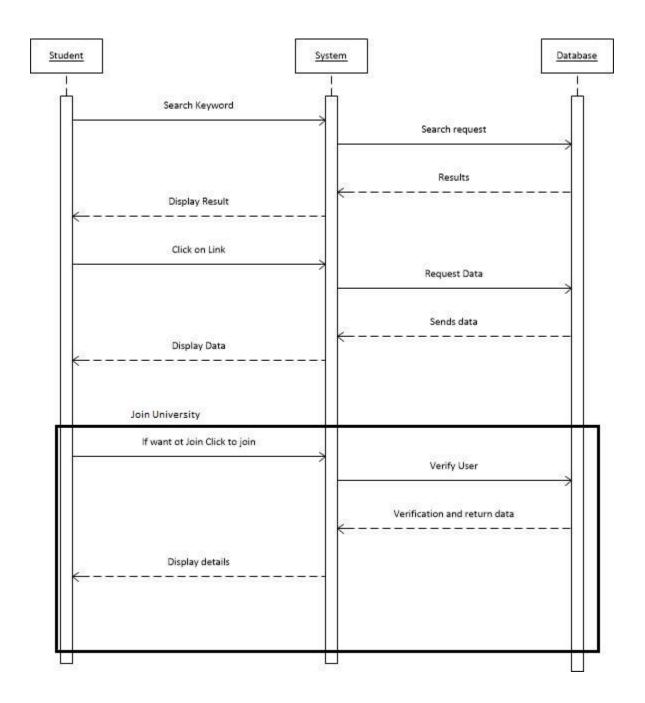
Create Event



Registration

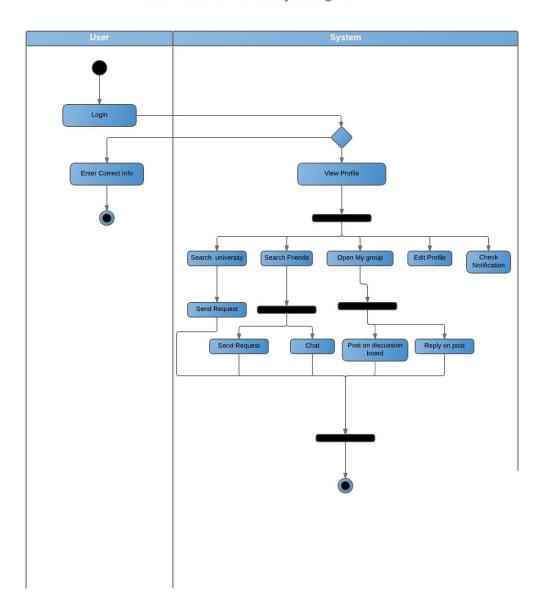






Activity Diagram:

EduAvenue Activity Diagram



7. Technologies Used

Software:

- Apache Tomcat
- BuddyPress
- MySQL
- Browser
- Windows 7
- Windows 8
- Linux

Hardware:

- Intel Pentium 4
- 80 GB Hard Disk
- 2 GB RAM

8. Future Scope

- Better Recommendations The current recommendation system can be enhanced to provide better university recommendations to the students.
- Calendar Integration This feature allows the user to view the scheduled dates notified in the calendar integrated in the application.
- Hosting- This application can be hosted on the web servers.
- Automated Notification Service Integration of a texting notification service, so that an email can be sent instantly to the students
- Porting the Web application to Mobile application Port this web application to mobile application or a tablet.

9. Deleted or Deferred Requirements

Following are the use-cases which are deferred to next phase.

	EDU_A_07	The system Should authenticated actors to and interact with their friend	allow chat	Deferred on 04/12/2015	3	
--	----------	--	---------------	------------------------	---	--

10. Design Evaluation:

Functionalities:

University:

Login-Complete
Search user- Complete
Create a Group- Complete
Post on Discussion board- Complete
Accept a Member add request- Complete
Provide email verification to add a new student to the group- Complete

Student/Professor:

Login – Complete
Search University- Complete
Search another user - Complete
Join University - Complete
Post on Discussion Board - Complete
Add a friend – Complete
Receive Recommendation of Universities- Complete

Completion Percentage- 13/13

Design Accuracy-90%

Group Members:

Nikhil Sanil Preeti Harkanth Pragya Rai Nitin Kabra Ojas Deshpande