UTA STUD
(Student Tracker University and Department)

CSE 5324-002
Group 3: STUDS
Iteration 3

Group Members

Sushma Kukkadapu(Group Captain)

Diksha Sharma

Karthik Gunalan

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Raja Krishna Gadde

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UTA STUD

(Student Tracker University and Department)

Deciding the courses for the next semesters, communicating with other students and checking the availability of the professors can be a tedious process when the students do not have a platform which provides an easy access to the information in one place.

UTA STUD is a student portal that allows a student to view courses, course ratings, class location, contact information of Professors and Graduate Teaching Assistants (GTA). It enables him/her to plan and view the events being organised. He/she can also have discussions with other students. This application will provide the students with a user-friendly interface facilitating access to the information he/she is looking for.

Project description and functionalities

This application will have two actors-Student and Admin.

UTA STUD Portal application will use the functionalities mentioned below:

Login

The potential users can login using their mav email and password and they can also reset their password using the forgot password function. They can logout of the application after completing the required task.

Courses
Students can view the enrolled courses. The admin can modify the courses enrolled by a student.

Course Ratings
Students can rate classes in which they are enrolled in based on factors like course structure and level of difficulty. The rating will be on a scale of 1 to 5 (5 = highest and 1 = lowest). They can also view ratings made by the other students which will help them decide the courses for the next semesters. The admin will also have the access to course rating and will act as a moderator for the text comments.

Discussions
This function will allow the student to have discussions about the courses with each other.They can view the previous chat threads along with adding and removing other students to start a conversation.

Class location and Contact info

Students will be able to find the location of the courses in which they are currently enrolled. A function for the contact details of the Professor and Graduate Teaching Assistant (GTA) is also available.

Events

Each event shall have a description and a venue, and if the student chooses to attend an event, that particular event will automatically be added to his/her schedule. The admin has privilege to add a new event and update an existing one on the portal.

Resources To Be Used

Android Studio, Github, Firebase, Google Maps

Experience level of the group

Sushma Kukkadapu
- Android : Intermediate
- Java : Intermediate
- Has done few Android projects

Raja Krishna Gadde
- Android: Intermediate
- Java: Intermediate
- Has created multiple Android UI designs

Diksha Sharma
- Android: Basic
- Java: Intermediate
- Worked on java projects

Karthik Gunalan
- Android: Intermediate
- Java: Intermediate
- Designed two android projects

Arbaz Shaikh
- Android : Basic
- Java : Intermediate
- Worked as an Application Developer for BNY Mellon

Wendpanga Eliab Kevin Yanogo
- Android : Intermediate
- Java : Intermediate
- Has implemented three Android apps

**Requirements

Req ID	Requirement Statement	Line
	Functional Requirements	
R1	**The app shall allow the student as well as the admin to login.**	16-19
R1.1	The app shall allow the student/admin to login using mav email and password.	derived
R1.2	The app shall validate the student's mav email and password with the database.	derived
R1.3	The app shall allow the student to login after entering valid mav email and Password.	18,19
R1.4	The app shall allow the student/ admin to login after entering valid email and Password.	derived
R2	**The app shall allow the student/admin to be redirected to the Dashboard.**	no line
R2.1	The app shall allow the student/admin to be directed to the Dashboard upon successful login.	derived
R2.2	The app shall allow the student to view the Student's name, student's mavID, student ID, courses and announcements.	no line
R2.3	The app shall allow the student to view the enrolled courses in on the Student Dashboard.	derived
R2.4	The app shall allow the Admin to be directed to the Admin Dashboard upon successful login.	derived
R2.5	The app shall allow the Admin to view the name and mail id.	derived
R3	**The app shall allow the student to view information about the courses.**	21-24
R3.1	The app shall display the courses the student has enrolled in.	23
R3.2	The app shall direct the student to the view courses page .	derived
R3.3	The app shall allow the student to select a particular course which will direct him/her to the course information page displaying information as time, place, course materials, professor name,.	derived
R3.4	The app shall allow the student to verify whether the courses have been added	derived

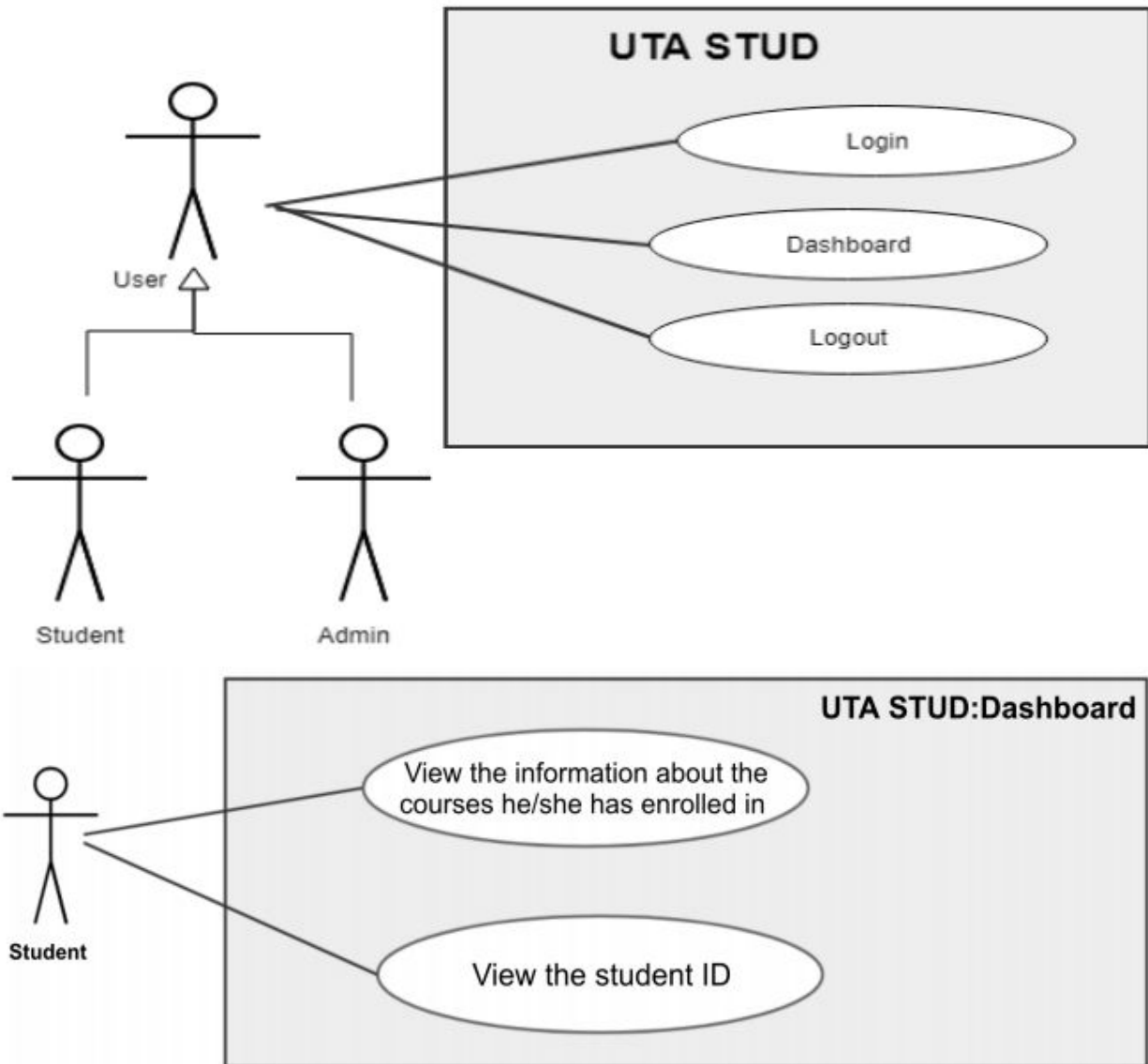|		
	by interlinking the pages with "back" option	
R3.5	The app shall allow the admin to modify the details about the course details and to manage the database.	
R4	**The app shall allow the student to rate the courses and give admin privileges to modify the comments.**	26-30
R4.1	The app shall allow the student to view the enrolled courses and select a particular course for the feedback page. The enrolled courses data will be obtained from the database.	27-28
R4.2	The app shall allow the student to fill a form in which he/she enters ratings on a scale of 1 to 5 where 1 is the lowest and 5 is the highest.	derived
R4.3	The app shall allow the admin to add and modify the factors on which ratings are based.	27-28
R4.4	The app shall allow the student to write text comments to give more information on the feedback for the course.	derived
R4.5	The app shall allow the admin to grant access to the feedbacks given by each student on the course and will be able to modify the comments based on the words that are used in the comments section.	derived
R4.6	The app shall allow the student to return back to the "course ratings page" by using the back option which will enable the student to provide feedback for another course.	derived
R5	**The app shall allow the student to have discussions with each other .**	32-35
R5.1	The app shall allow the student to view the recent chats and allow the student to select the respective chat thread which will give a history of text messages.	derived
R5.2	The app shall allow the student to search for the respective profile using the NetID. The search tab will show a drop down which will show the list with an add symbol on the right side of the name.	35
R5.3	The app shall allow the students to send text messages to each other.	derived
R5.4	The app shall show the pending message on sending a request because the user on the other side must approve the invitation in order to send text messages to each other.	derived
R5.5	The app shall allow the student to send text messages and notify the students	derived

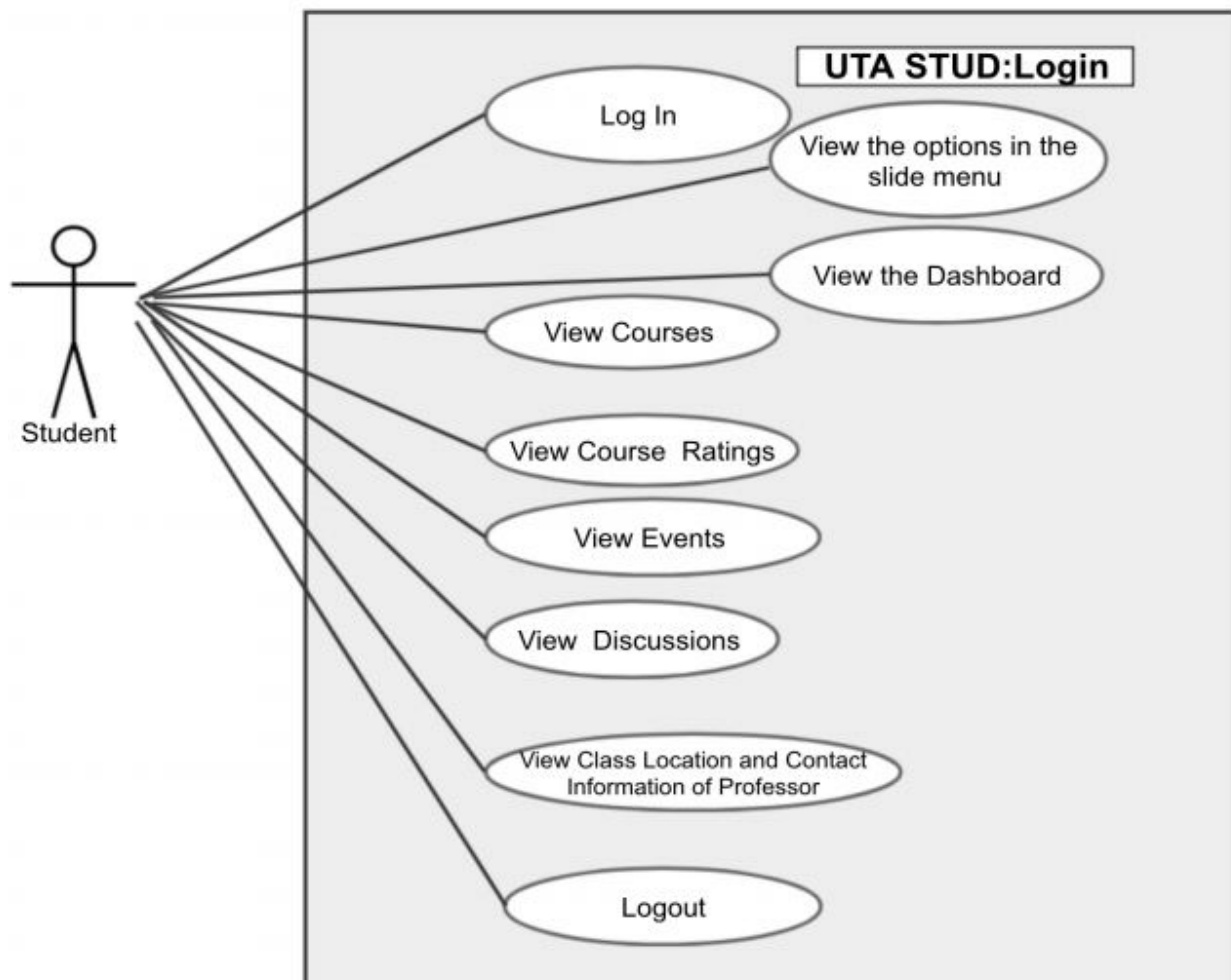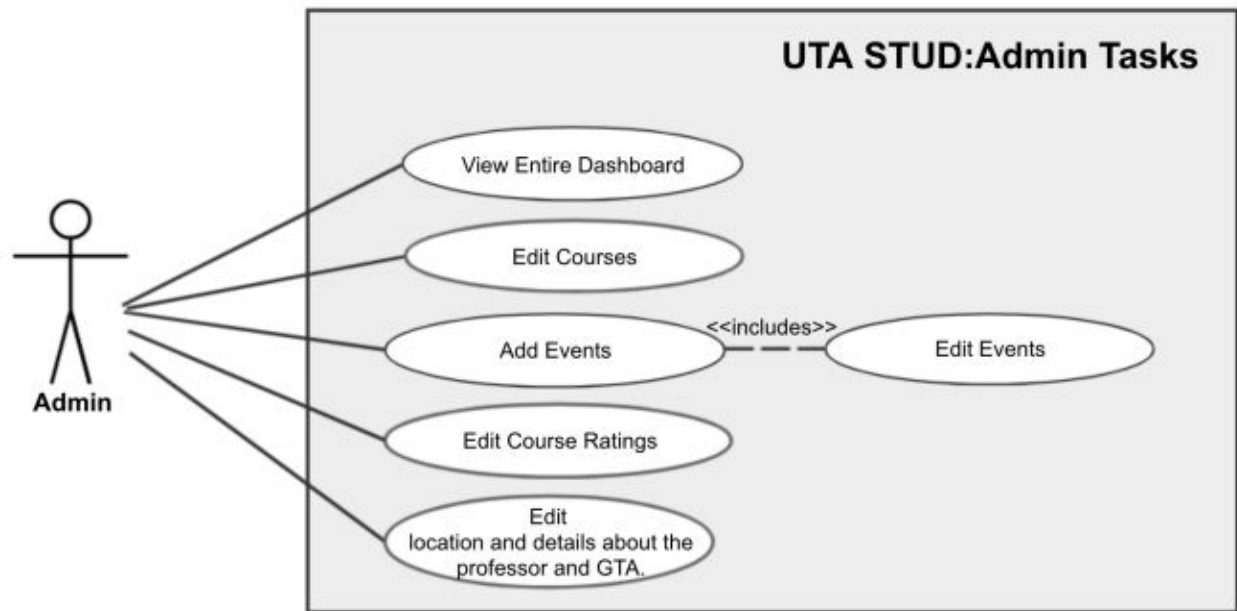|		
	whenever a text is sent or received.	
R5.6	The app shall notify the student if the invitation was rejected, and blocks the student from sending messages to the user.	derived
R6	**The app shall allow the student to view the location of the classes he/she is enrolled in.**	37-40
R6.1	The app shall allow the student to select a tab and view the course code, course timings, professor name, professor's office location, professor's work hours, GTA's name, GTA's office location and GTA's work hours.	38
R6.2	The app shall allow the student to locate the course classroom, a "locate classroom" option which will redirect the students to google maps and route the students to the classroom.	38
R6.3	The app shall allow the admin to make changes to the course classroom as every semester the classroom is updated.	derived
R6.4	The app shall allow the admin to update the database from the app by updating the location which will get loaded in google maps, and the coordinates will be stored in "locate class" link which will help the students to get directions to the respective class.	derived
R7	**The app shall allow the student to view the contact details of the Professors and the GTAs.**	39-40
R7.1	The app shall allow the student to select a one of the enrolled course from the list and view the details about the professor and gta.	40
R8	**The app shall allow the student to view the events.**	42-45
R8.1	The app shall allow the student to choose an event based on his/her interest and it will be added to announcements.	43
R8.2	The app shall allow the admin to manage the events, the app grants permission for the admin to make any type of modifications in the details with the event.	44-45
R8.3	The app shall allow the admin to manage a database with the respective students who are planning to attend the event.	derived
R8.4	The app shall allow the student to view the events.	derived
R8.5	The app shall allow the student to select and if the student is interested in	derived

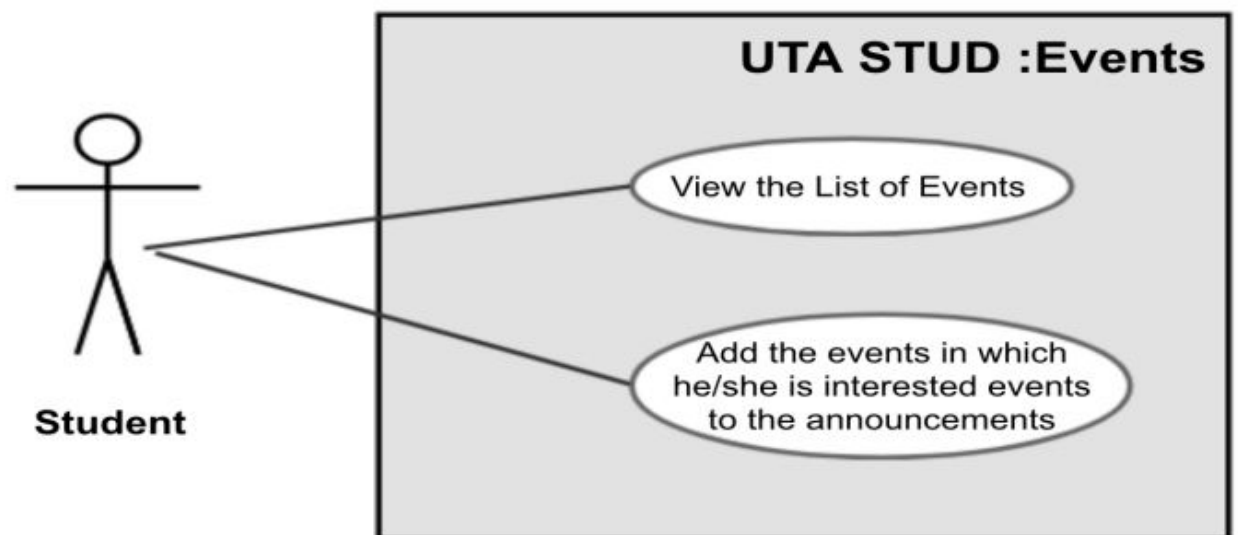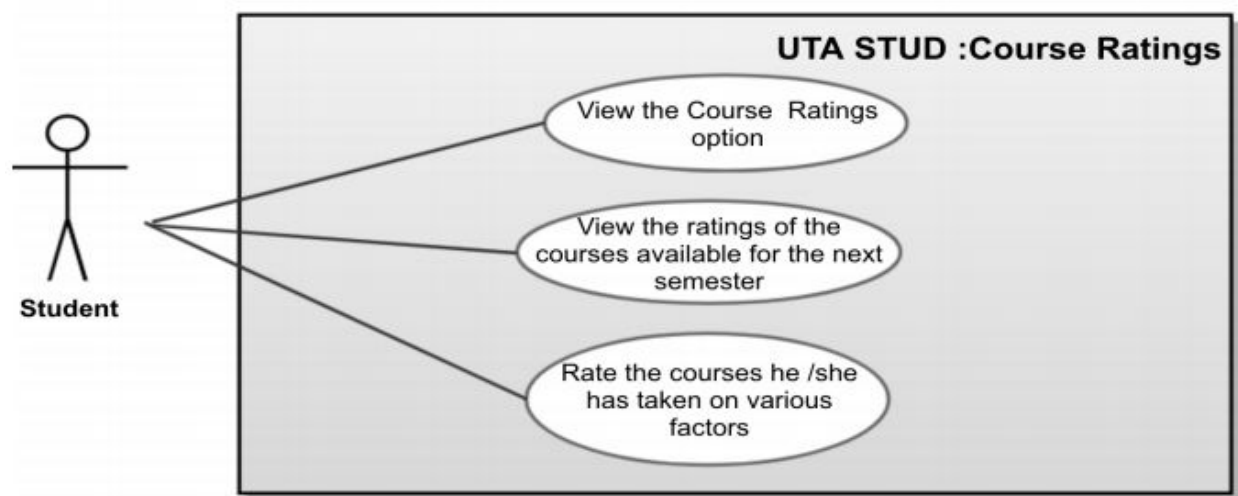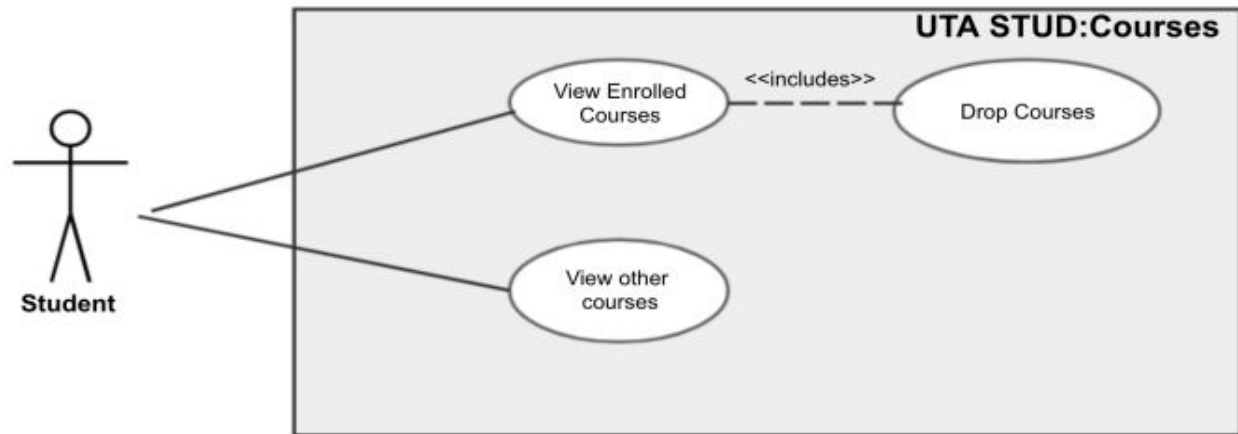|		
	attending the event then the student can add the event to google calendar.	
R9	**The app shall allow the admin to login with the credentials and will be directed to a dashboard page**	no line
R9.1	The app shall allow the admin to select the courses information tab, courses feedback tab, contact details of the professor and event management, all these options will be available in the slide menu.	no line
R9.2	The app shall allow the admin to make changes to the database by selecting any of the tabs.	no line
R9.3	The app shall allow the admin to modify the courses information tab by clicking on the courses information tab and options about the course time, place, course materials, professor name, that are viewed by the students will be granted privileges to modify the database.	no line
R9.4	The app shall allow the admin to modify the feedback database by viewing the comments and can modify the comments section based on the text that is being used.	no line
R9.5	The app shall allow the admin to select the course location option and update the course location details, this is done by saving the location coordinates to the link which will direct the students to the class location by using google maps.	no line
R9.6	The app shall allow the admin to update the contact details about the professor and GTA, whenever a professor or GTA updates the Email ID or the work hours and work location, the admin will be given privileges to modify the database and by using the app, the criterias would be changed and reflected at the locations where the students need to view the details.	no line
R10	**The Log Out option under the menu tab shall redirect the student or admins to the login page.**	18-19
Non-Functional Requirements		
R11	The app shall support Android 5.x (Lollipop) and above.	No Line
R12	The app shall store the users session data.	No Line
R13	The app shall encrypt the user password.	No Line
R14	The app shall allow the students to drop or swap classes after consulting with	No Line

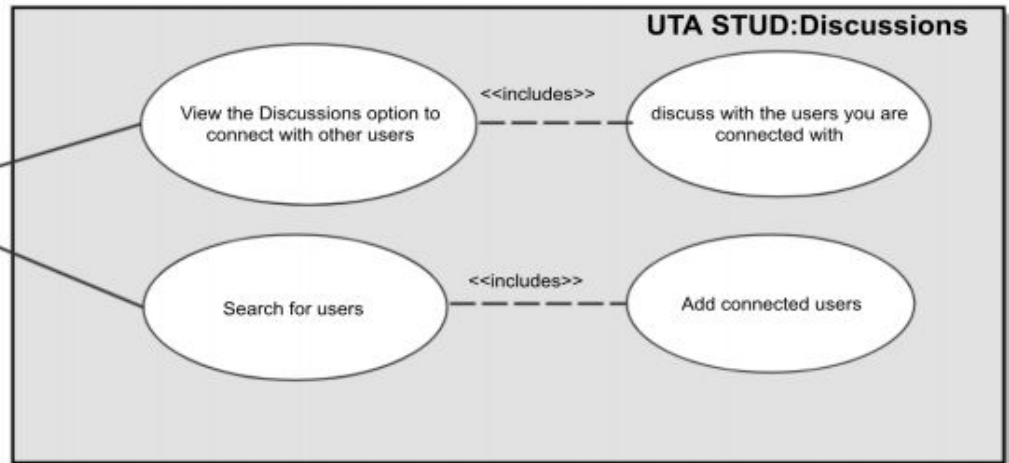|		
	the Graduate advisor.	
	Interface Requirements	
R15	The app interface shall possess a consistent view throughout.	No Line
R16	The app interface shall be designed to adapt into any mobile screen.	No Line
R17	The app interface shall have a screen orientation feature.	No Line
R18	The app interface shall be easy to navigate from one page to another.	No Line
R19	The app interface shall have a splash screen showing the logo of UTA.	No Line
R20	The app interface shall use material design.	No Line
R21	The app shall be interfaced with google maps and google calendar.	No Line

Use Case Diagrams

UTA STUD

- Login
- Dashboard
- Logout

User

Student

Admin

UTA STUD:Dashboard

Student

- View the information about the courses he/she has enrolled in
- View the student ID

UTA STUD:Admin Tasks

Admin

- View Entire Dashboard
- Edit Courses
- Add Events ----<<includes>>---- Edit Events
- Edit Course Ratings
- Edit location and details about the professor and GTA.

UTA STUD:Login

Student

- Log In
- View the options in the slide menu
- View the Dashboard
- View Courses
- View Course Ratings
- View Events
- View Discussions
- View Class Location and Contact Information of Professor
- Logout

UTA STUD:Courses

View Enrolled Courses — <<includes>> — Drop Courses

View other courses

Student

UTA STUD :Course Ratings

View the Course Ratings option

View the ratings of the courses available for the next semester

Rate the courses he /she has taken on various factors

Student

UTA STUD :Events

View the List of Events

Add the events in which he/she is interested events to the announcements

Student

UTA STUD:Discussions

View the Discussions option to connect with other users

<<includes>>

discuss with the users you are connected with

Search for users

<<includes>>

Add connected users

Student

High Level Use Cases

*Abbreviations: **TUCBW:** This use case begins with*
*   **TUCEW:** This use case ends with*

UC1: Login.
TUCBW: The student/ admin enters his Mav email id and password and clicks on the Sign in button.
TUCEW: The student/admin has logged in successfully and is directed to the Student/Admin Dashboard.

UC2: View the Student Dashboard.
TUCBW: The Student selects the home option.
TUCEW: The Student views the Student's name, student's mav-ID, student ID, courses and announcements.

UC 3: View the admin dashboard and functionalities that he/she will have to modify.
TUCBW: The Admin will be able to view the dashboard with the profile details
TUCEW: The Admin is able to edit the following from the slide menu: " Edit Courses", "Edit Ratings", "Edit course locations", "Edit Campus Events".

UC4: View the Courses tab.
TUCBW: The student clicks on the courses tab in the slide menu and view all the courses he/she has enrolled in. The courses will be displayed with the course code and the course name.
TUCEW: The student has viewed all of his/her courses, he can choose to click on a particular course to view specific details about that course and choose that particular course.

UC4.1: Choose a Particular Course.
TUCBW: The student choose a particular course for more detailed information about that course, including the building, the classroom number, the course timing and the instructor's office number and his office hours.
TUCEW: The student has viewed detailed information about a course, he/she can choose to go back to the courses list or back to the menu.

UC4.2: Edit the course information.
TUCBW: The admin edits the course information using the edit course option.
TUCEW: The admin has modified and updated the information about the course.

UC5: Open the Ratings tab.
TUCBW: The Student clicks on the Ratings tab from the slide menu.
TUCEW: The Student is directed to the ratings tab, and have options to rate his/her courses and view other courses ratings.

UC5.1: See Courses Ratings.
TUCBW: The student views a scrollable list of ratings and comments made by other students on all courses, including the ones he/she is currently enrolled in.
TUCEW: The student viewed the ratings of all courses made by the app's users. He/She can choose to click on the floating action button to rate a course, or go back to the main menu.

UC5.2: Edit the comments mentioned.
TUCBW: The Admin views the comments and edit them by clicking on the edit button of that respective comment.
TUCEW: The Admin has edited and removed the comments that are unnecessary.

UC5.3: Rate a Course.
TUCBW: The student clicks on the floating action button, to rate one of his/her classes. A form will then show-up, where the student can choose the name of the course he wants to rate from a list, set the overall note of the class, and optionally leave a comment. After validating the form, his/her rating will be added to the ratings list.
TUCEW: The student has submitted a rating, and is automatically redirected to the Dashboard.

UC6: Open the Discussions Tab.
TUCBW: The student clicks on the chat icon from the Dashboard.
TUCEW: The student is directed to the discussion tab where he sees the discussion history and can click on a particular one to open it.

UC6.1: Send invitations to classmates.
TUCBW: The Student sends an invitation to other students.
TUCEW: The Student has sent an invitation to that respective student.

UC6.2: See the previous chats.
TUCBW: The student clicks on a particular discussion to open it. He then sees all the messages he exchanged with his/her peer. He can choose to send a new message by entering text in the text input box at the bottom of the chat.
TUCEW: The student types a message in the text box, or chooses to go back to the "Discussions" tab or the main menu.

UC6.3: Send a message.
TUCBW: The student types a message in the text input box at the bottom of the chat. After typing his/her message, the user can press "Send" to send his/her message.
TUCEW: The student's message was sent. He can choose to remain in this chat, or go back to the main menu or the Dashboard.

UC7: View the location.
TUCBW: The Student clicks on the "locations" tab from the main menu.
TUCEW: The Student is directed to the page consisting of courses tab and locations.

UC7.1:Find route to the location.
TUCBW: The Student clicks on a course for the location on the locations page.
TUCEW: The Student is directed to the route for the classroom through google maps.

UC7.2: Find location and working hours about the professor and GTA.
TUCBW: The Student clicks on that respective course on the locations page and the contact details about the professor and GTA is shown.
TUCEW: The Student has viewed the location and working hours about the professor and GTA.

UC7.3: Update the location and details about the professor and GTA.
TUCBW: The Admin updates the new location of the class by clicking on the update location tab and, update the details about the professor and GTA.
TUCEW: The Admin has updated the coordinates of the class room and details about the professor and GTA.

UC8: View the Events tab.
TUCBW: The student sees a list of on-campus events. Each element of the list will consist of a picture/poster, a title and a date. However, he/she will not be able to register from the app. If registration is needed for an event, a registration link will also be provided.
TUCEW: The student has viewed the list of all on-campus events, and can choose to go back to the main menu or the Dashboard.

UC 8.1: Select the events and add it to the announcements.
TUCBW: The Student clicks on the event, views the details about the event. If interested,he/she clicks on the interested option.
TUCEW: The Student has added the event to the announcements section which would notify the students about the event.

UC 8.2: Add, modify and update the details about the event.
TUCBW: The Admin can click on the edit event page.
TUCEW: The Admin will be able to add, edit or delete the respective events.

UC9: View the contact details about the professor and GTA.
TUCBW: The Student clicks on the contact details tab to view the details about the professor and GTA.
TUCEW: The Student has viewed the email-id of the professor and GTA

UC10: Student or Admin logout.
TUCBW: The Student/Admin clicks on the logout option.
TUCEW: The Student/Admin has logged out and returned back to the sign in page.

Requirement Traceability Use Case Matrix

Req	Priority Weight	UC1	UC2	UC3	UC4	UC4.1	UC4.2	UC5	UC5.1	UC5.2	UC5.3	UC6	UC6.1	UC6.2	UC6.3	UC7	UC7.1	UC7.2	UC7.3	UC8	UC8.1	UC8.2	UC9	UC10
R1	4	X																						
R1.1	4	X																						
R1.2	4	X																						
R1.3	4	X																						
R1.4	4	X																						
R2	2		X																					
R2.1	2		X																					
R2.2	2		X																					
R2.3	2		X																					
R2.4	2		X																					
R2.5	2		X																					
R3	2				X																			
R3.1	2				X																			
R3.2	2					X																		
R3.3	2					X																		
R3.4	2					X																		
R3.5	2					X																		
R4	2							X																
R4.1	2								X															
R4.2	2										X													
R4.3	2									X														
R4.4	2									X														
R4.5	2										X													

R4.6	2							X														
R5	2									X												
R5.1	2											X										
R5.2	2									X												
R5.3	2									X												
R5.4	2												X									
R5.5	2										X											
R5.6	2										X											
R6	2													X								
R6.1	2													X								
R6.2	2															X						
R6.3	2														X							
R6.4	2																X					
R7	4																			X		
R7.1	4																			X		
R8	1																X					
R8.1	1																	X				
R8.2	1																		X			
R8.3	1																		X			
R8.4	1																	X				
R8.5	1																	X				
R9	3			X																		
R9.1	3			X																		
R9.2	3			X																		
R9.3	3			X																		
R9.4	3			X																		
R9.5	3			X																		
R9.6	3			X																		
R10	1																				X	

SCORE		120	20	12	21	4	8	2	2	2	6	4	6	4	2	2	4	2	2	2	1	3	2	8	1

Domain Model Diagram
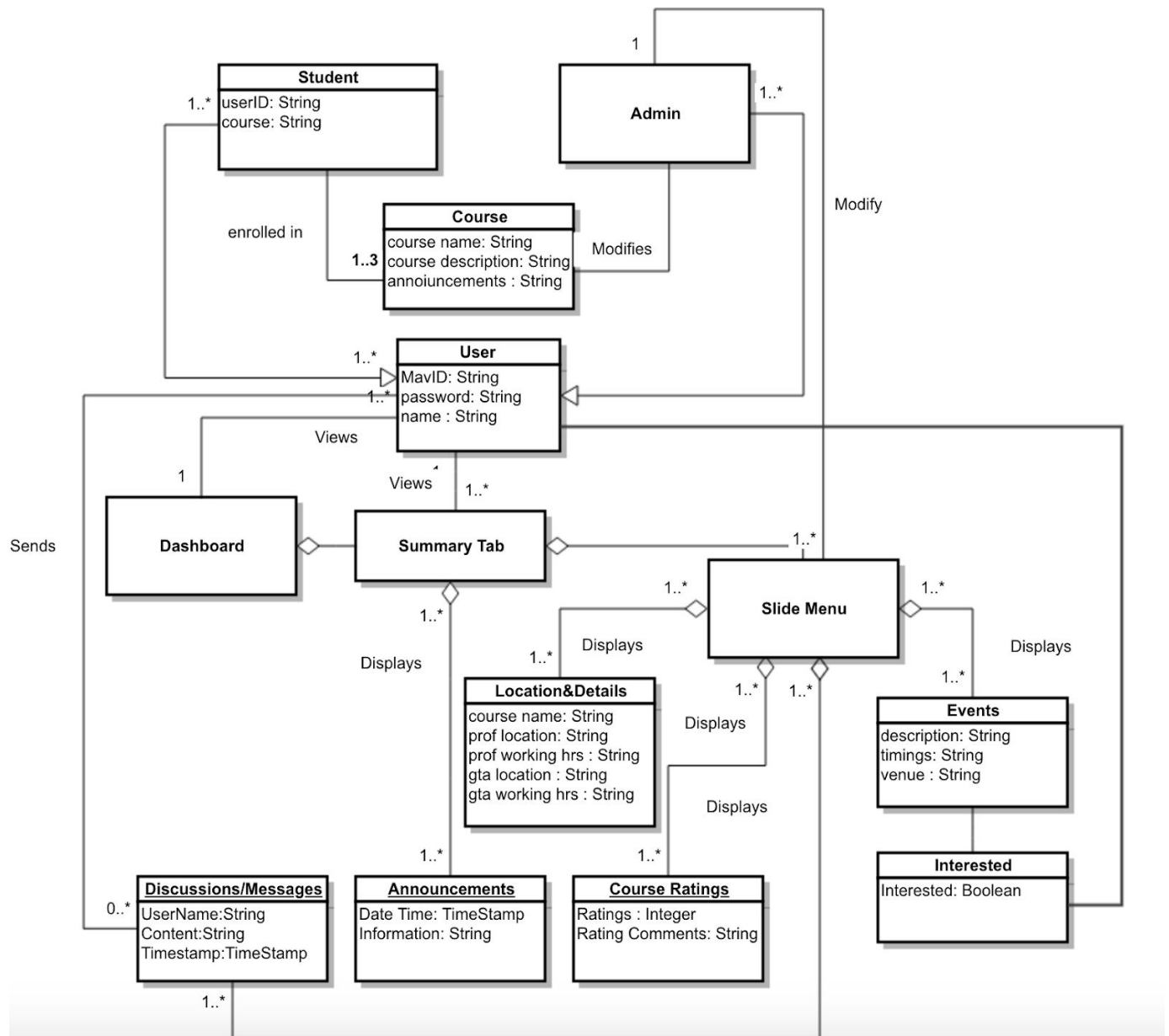
Increment Matrix

Use Cases	Priority	Effort(person per week)	Depends On	Iteration 1 (09/16/2018-10/05/2018)	Iteration 2 (10/5/2018-11/07/2018)	iteration 3 (11/07/2018-11/23/2018)
UC1	4	4	R1	4		
UC2	2	6	R2			6
UC3	3	6	R9		6	
UC4 UC4.1 UC4.2	2	8	R3			8
UC5 UC5.1 UC5.2 UC5.3	2	10	R4			10
UC6 UC6.1 UC6.2 UC 6.3	2	6	R5			6
UC7 UC7.1 UC7.2 UC7.3	2	8	R6			8
UC8 UC8.1 UC8.2	2	6	R8		6	
UC9	4	4	R7			4
UC10	1	1	R10			1
Total Effort	120	59		4	12	43

Tasks Assigned

Tasks	Use Case	Requirement	Assignee
Create the login page	UC1	R1.1, R1.2, R1.3,R1.4,	Diksha Sharma
Create the student Home Page displaying the Student's name, student's mavID, student ID, courses and announcements.	UC2	R2,R2.1,R2.2,R2.3, R2.4,R2.5	Sushma
Create the slide menu which contains the various functions.	N/A	N/A	Karthik
Create the Courses tab where a student can view information about the courses.	UC4	R3	Arbaaz
Create the available courses options and work on the functionality of adding and removing courses according to the minimum criteria.	UC4	R3.1,R3.2,R3.3,R3.4,R3.5	Raja
Create the back button to reach back to the previous page and the Home option to go back to the Student Home Page.	N/A	N/A	Kevin
Create the Course Ratings tab where a student can rate the courses in a form containing the factors and add comments .	UC5	R4.1,R4.2,R4.4,R4.6	Diksha Sharma
Create the Submit button to submit the form and the comments.	N/A	N/A	Sushma
Create a separate interface for the admin to access the feedback provided by the student and modify it accordingly.	UC5	R4.3,R4.5	Karthik
Create a discussions tab which will allow the student to communicate with other students by sending text messages.	UC6	R5.1,R5.2,R5.3,R5.4,R5.5,R5.6	Arbaaz
Create a class location tab through which a student can locate his/her classes and interface it using Google Maps.	UC7	R6.1,R6.2,R6.3,R6.4	Raja
Create a separate interface for the admin to update the locations of the student's classes, once he changes his/her subjects after the semester.	UC3	R9.1,R9.2,R9.3,R9.4,R9.5,R9.6	Kevin
Create a Contact info tab and add the GTA and Professor's timings of a particular class	UC9	R7,R7.1	Diksha Sharma

Create an Events tab and link it with the announcements and calendars to set reminders.	UC8	R8.1,R8.2,R8.3,R8.4,R8.5	Sushma
Create a logout option	UC10	R10	Kevin
Work on the designing the interface and improvements.	N/A	R11, R12, R13,R14,R15,R16, R17,R18,R19,R20, R21	Karthik, Kevin, Raja, Diksha, Sushma, Arbaaz

Expanded Use Cases

UC 1: Login	
Pre-condition-The user must possess valid credentials.	
Actor: Student/Admin	**System: UTA STUD Portal**
	0: The system displays the Login Page.
1.TUCBW the student/ admin enters his Mav email id and password and clicks on the Sign in button.	2.The system will display the Dashboard on successful login. The system will display a message asking to enter valid credentials, if invalid credentials are added.
3.TUCEW the student/admin has logged in successfully and is directed to the Dashboard or sees the unauthorized message.	
Post Condition-The user will be logged into the UTA STUD dashboard	

UC2: View the Student Dashboard	
Pre-condition -The student must have logged into the app successfully and have enrolled into courses.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the Dashboard.

	2.The system displays Student's name, student's mav-ID, student ID, courses and announcements.
1.TUCBW the Student presses the home button.	
3.TUCEW the Student views the Student's name, student's mav-ID, student ID, courses and announcements.	
Post Condition-The student will be able to view the details related to his enrolled courses.	

UC2.1: View the admin Dashboard	
Precondition-The user must have admin privileges and have successfully logged into the app.	
Actor: Admin	**System: UTA STUD Portal**
	0.The system displays the Admin Dashboard.
1.TUCBW the admin presses the home button.	2.The system displays the admin's information.
3.TUCEW the admin views his name, netID, student ID, and email.	
Post Condition-The admin will be able to view his information.	

UC 3: View the dashboard and functionalities that he/she will have to modify	
Pre-Condition-The admin has reached the Dashboard.	
Actor: Admin	**System: STUD Portal**

	0.The system displays the Dashboard.
1.TUCBW The Admin clicks the dashboard with the profile details.	2.The system displays the slide menu with options- Edit Courses, Edit Ratings, edit course locations, Edit Campus Events.
3.TUCEW the Admin is able to choose the following from the slide menu: Edit Courses, Edit Ratings, Edit course locations, Edit Campus Events.	
Post Condition-The admin has made a choice successfully.	

UC4: Open the Courses tab	
Pre-Condition-The Student has viewed the slide menu.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the Slide menu options.
1.TUCBW the student clicks on the courses tab in the slide menu.	2.The system displays the courses , with the course code and the course name.
3.TUCEW the student has viewed all of his/her courses.	
Post Condition-The student is able to view his enrolled courses.	

UC4.1: choose a Particular Course	
Pre-Condition-The student has enrolled into courses and has selected the Course tab.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the information about the courses, the student has enrolled in.

1.TUCBW the student clicks on a particular course for more detailed information about that course.	2.The system displays information including the building, the classroom number, the course timing, the instructor's office number and his office hours.
3.The student has viewed detailed information about a course.	4.The system displays the student information as well as the back button on the course information page.
5.TUCEW After viewing the student chooses to go back to the courses list or the menu or decides to stay on the same page.	

Post Condition-The student is able to view the information regarding a particular course.

UC4.2: Edit the course information	
Pre-Condition- The admin must have logged in with valid credentials and has chosen the edit course option from the slide menu.	
Actor: Admin	**System: UTA STUD Portal**
	0.The system displays the information about all the courses.
1.TUCBW the admin clicks on a particular course.	2.The system displays the building, the classroom number, the course timing, the instructor's office number and his office hours in option tabs.
3.The admin edits the displayed option tabs.	4.The system opens a new window on the basis of the chosen option.
5.The admin makes changes and clicks on the Confirm button.	6.The system displays the changes have been made successfully message.
7.TUCEW the admin has modified and updated the information about the course.	
Post Condition-The admin is able to modify the information for a course.	

UC5: Open the Ratings tab.	
Pre-Condition-The student/admin has reached the Dashboard.	
Actor: Student /Admin	System: STUD Portal
	0.The system displays the Dashboard with the slide menu.
1.TUCBW the student clicks on the Ratings tab from the slide menu.	2.The system displays the list of courses and star ratings with comments by the other students.
3.TUCEW the student is directed to the ratings tab.	
Post-Condition-The student/admin has reached the ratings window.	

UC5.1: View Courses Ratings.	
Pre-Condition-The student/admin has clicked on the Ratings tab.	
Actor: Student/Admin	**System: STUD Portal**
	0.The system displays the Ratings tab in the slide menu.
1.TUCBW the student views the ratings tab.	2.The system displays a scrollable list of courses along with star ratings and comments.
3.The student clicks on a particular course to read comments and ratings.	4.The system displays the comments and ratings for the selected course.

5.TUCEW the student has viewed all the ratings of all the courses made by all the app users.	
Post Condition-The student is able to view the ratings and comments of a course.	

UC5.2: Edit or delete inappropriate comments.	
Pre-Condition-The user must have admin privileges with successful login.	
Actor: Admin	**System: UTA STUD Portal**
	0.The system displays the list of courses and star ratings with comments by the other students.
1.TUCBW the admin clicks on a particular comment in the list.	2.The system displays the comment along with the editing options for it in a dialog box.
3.Admin clicks on a particular option.	4.The system displays the cursor on the comment for modifications.
5.TUCEW the admin has made changes accordingly.	
Post-Condition -The admin has made modifications to the ratings accordingly.	

UC5.3: Rate a Course.	
Pre-Condition-The student has enrolled into that course.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the Ratings tab.
1.TUCBW the student/admin clicks on the particular course he/she wants to rate	2.The system displays the course information and a floating action button for Rating.
3.The student clicks on the floating action button.	3.The system displays a form, where the student can set the overall note of the class, and optionally leave a comment.

3.The student rates the course and fills the form.	4.The system displays the completed form with a submit button.
5.TUCEW the student clicks on the submit button, and is automatically redirected to the Dashboard.	
Post Condition-The student is able to submit his rating successfully.	

UC6: Open the Discussions Tab.	
Pre-Condition-The student has logged in successfully.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the Dashboard.
1.TUCBW the student clicks on the chat icon from the Dashboard.	2. The system displays the chat interface for discussions.
3.TUCEW the student views the discussions window with the chats the user has been a part of before.	
Post-Condition- The student is able to view the discussions with other users.	

UC6.1: Send invitations to classmates.	
Pre-Condition-The student has to be enrolled to the same course.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the chat page.
1.TUCBW the student searches for another student using the netid.	2.The system displays a list of matching names below the search bar with an add button.
3. The Student sends an invitation to another student.	4. The system displays a request sent along with the name of the student who has been invited.

5.TUCEW The Student has sent an invitation to that particular student.	
Post Condition-The student is able to connect with other students.	

UC6.2: See chat history.	
Pre-Condition-The student has selected the discussions tab.	
Actor: Student	**System: UTA STUD Portal**
	0. The system displays the chat interface.
1.TUCBW the student clicks on a particular discussion (between him and a peer) and opens it.	2. The system displays the chat history with the selected person.
3.TUCEW the student sees all the messages he/she has previously exchanged with that contact.	
Post Condition-The student is able to view the chat history with the other contact.	

UC6.3: Send a message.	
Pre-Condition-The student has reached the chat page.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the chat interface.
1.TUCBW the student clicks on the name of another person he/she wants to have conversations with.	2.The system displays the chat window displaying the name of the person on top and a text box to type message. It also displays the previous messages ,if any.
3. The student types a message in the text input box.	4.The system displays the typed message in the chat window.
5. The student sends the message using the Send button.	6.The system displays the sent message with the name of the contact.
7.TUCEW The student's message was sent successfully. He can choose to	

remain in this chat, or go back to the main menu or the Dashboard.	

Post Condition-The student is able to communicate with other students.

UC7: Open the locations tab.	
Pre-Condition-The student has logged into the app successfully.	
Actor: Student	**System :UTA STUD Portal**
	0.The system displays the Dashboard.
1.TUCBW The Student clicks on the locations tab from the slide menu.	2.The system displays the list of enrolled courses as well as other courses with an option to see location.
3.TUCEW The Student views his/her courses and their locations.	
Post-Condition-The student is able to view the location of the chosen course.	

UC7.1: Route to the course's location.	
Pre-Condition-The student should have opened the locations tab.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the course location on a map.
1.TUCBW The Student clicks on a particular course from the locations tab.	2.The system displays a new window with the course information and the locations of the class on a Google map.
3.TUCEW The Student is directed to google maps and can route to the course's venue.	
Post Condition-The student can take the route for the location of his class.	

UC7.2: Route to the Professor and GTA's location.

Pre-Condition-The student should have opened the locations tab.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the locations tab.
1.TUCBW the Student clicks on a particular course from the locations tab.	2. The system displays the course information as well as the location of the professor and GTA on Google Maps.
3.The student clicks on the location of the professor or GTA.	4.The system displays the route of the selected professor and GTA on Google Maps.
5.TUCEW the student routes to the Professor or the GTA's office.	
Post Condition-The student can get to the location of the selected Professor or GTA.	

UC7.3: Edit the professor and GTA's location.	
Pre-Condition-The admin has reached the locations tab.	
Actor: Admin	**System-UTA STUD Portal**
	0.The system displays the locations tab.
1.TUCBW the Admin clicks on a particular course from the locations tab.	2.The system displays the edit location button in a new window.
3. Admin edits the Professor or GTA's geographical coordinates.	4.The system displays a message about the successful change of the coordinates.
5.TUCEW the admin changes the professor or GTAS location successfully.	
Post Condition -The admin is able to change the location of the professor or GTA successfully.	

UC8: View on-campus Events.	
Pre-Condition-The student has logged into the app successfully.	
Actor: Student	**System-UTA STUD Portal**
	0.The system displays the Dashboard.

	2.The system displays each element as the list consisting of a picture/poster, a title and a date.
1.TUCBW the student clicks on the Events tab from the slide menu.	
3.TUCEW the student views a list of all the on-campus events, consisting of a picture/poster, a title and a date.	
Post Condition -The student is able to view the events successfully.	

UC 8.1: View details about a particular event.	
Pre-Condition-The student has chosen the events tab.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the list of events being organized.
1.TUCBW the student clicks on a particular event in the events list.	2.The system displays the information related to the selected event.
3.TUCEW the student views the details of that particular event.	
Post Condition -The student is able to view the details of the selected event.	

UC 8.2: Add an event to his/her announcements.	
Pre-Condition-The student has chosen the events tab.	
Actor: Student	**System: UTA STUD Portal**
	0.The system displays the list of events being organized.
TUCBW The Student clicks on a particular event in the list.	1.The system displays information about the selected event to confirm adding it to the announcements.
TUCEW the student has added the event to announcements for notifications on the portal.	

Post Condition -The student has added events to the announcements successfully.

UC 8.3: Add a new event.	
Actor: Admin	**System: UTA STUD Portal**
	0.The system displays the events tab.
1.TUCBW From the Events tab, the admin clicks on the floating action button.	2.The system displays the form for adding a new event or modifying an existing one.
3.The admin fills the required details and clicks on the Add Event button.	4.The system displays the message about the successful addition of the event.
5.TUCEW Admin has added an event to the list.	

UC9: View the professor and GTA's contact details.	
Pre Condition-The student has reached the slide menu.	
Actor:Student	**System-UTA STUD Portal**
	0.The system displays the dashboard.
1.TUCBW The student clicks on the contacts from the slide menu.	2.The system displays the list of contact information of the professor as well as the GTA including email address.
3.TUCEW The Student views the emails of all his/her professors and GTAs.	
Post Condition -The student has viewed the contact information.	

UC10: Student and Admin logout.	
Pre-Condition-The Student/Admin has logged in and used the app.	
Actor: Student/Admin	**System-UTA STUD Portal**
	0.The system displays the dashboard.
1.TUCBW the Student/Admin clicks on the logout tab from the slide menu.	2.The system displays a dialog box for the confirmation of logging out.
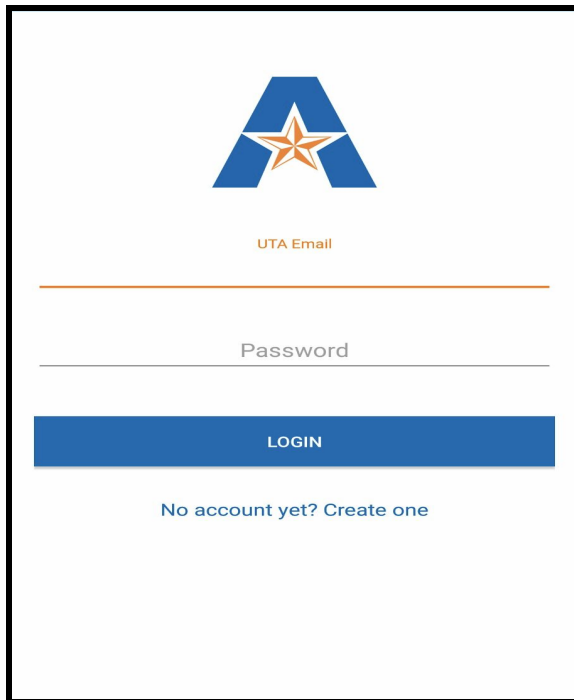
3.TUCEW The Student/Admin is logged out and redirected to the sign in page.	
Postcondition -The student/admin is able to logout successfully.	

UI Prototypes

Fig 1:Login   Fig 2:Enter valid credentials
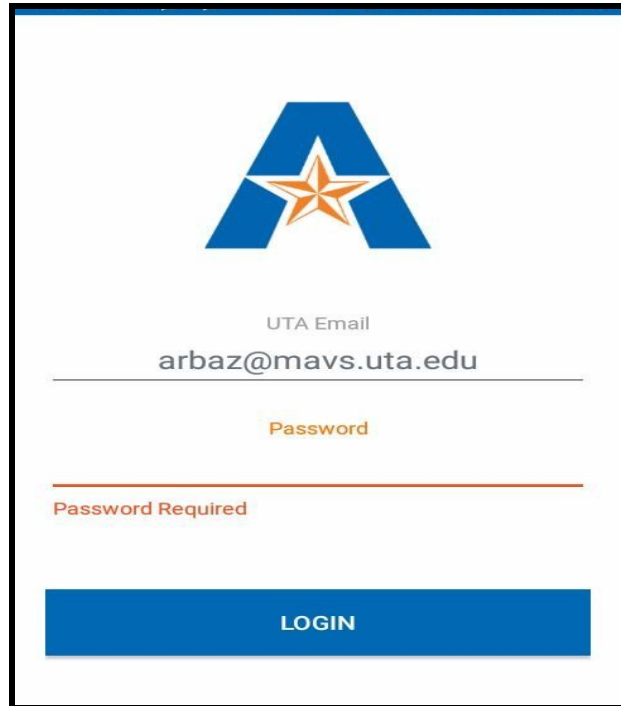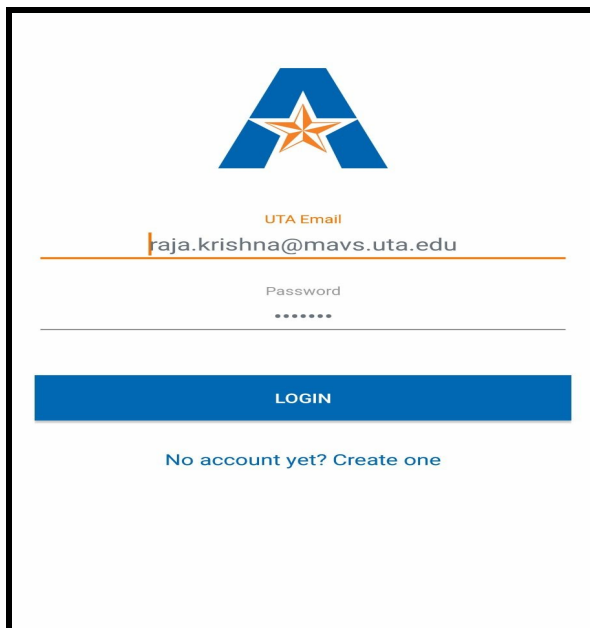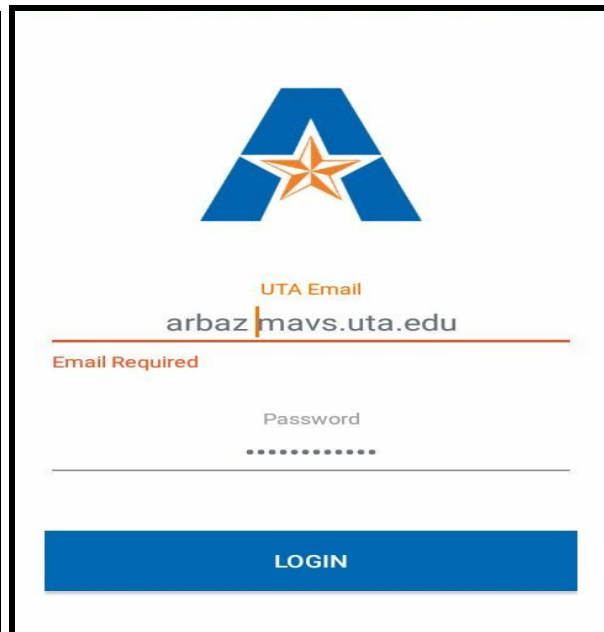
Fig 3:Enter mav email and Password   Fig 4: Enter valid credentials

Fig 5: Enter Valid credentials

Fig 6:View Dashboard

Fig 7:Slide menu with options

Fig 8: View Courses

Fig 9:Choose a particular course

Fig 10: Admin privilege to edit course info
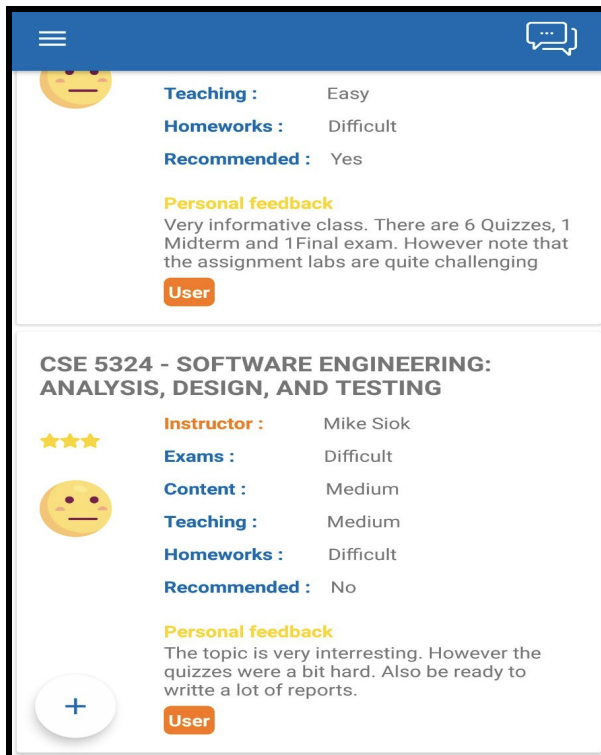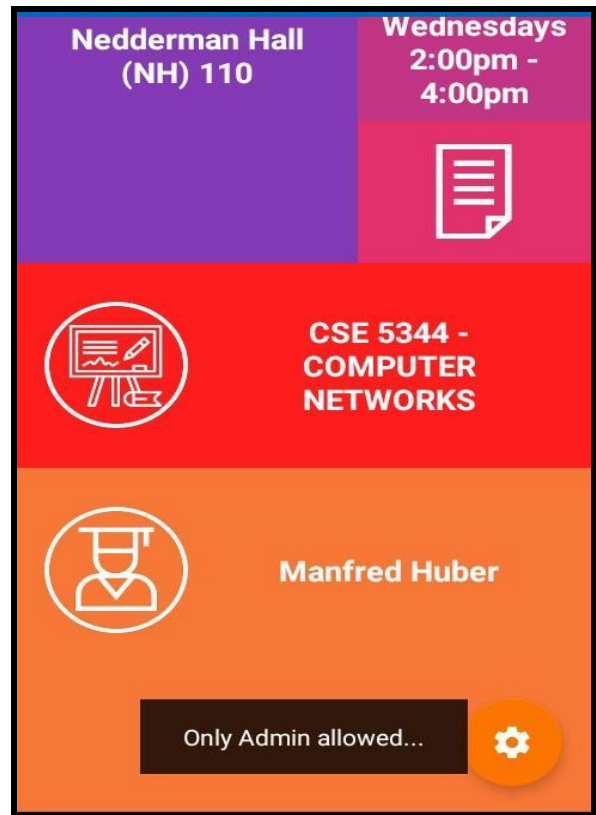
Fig 11:View course ratings
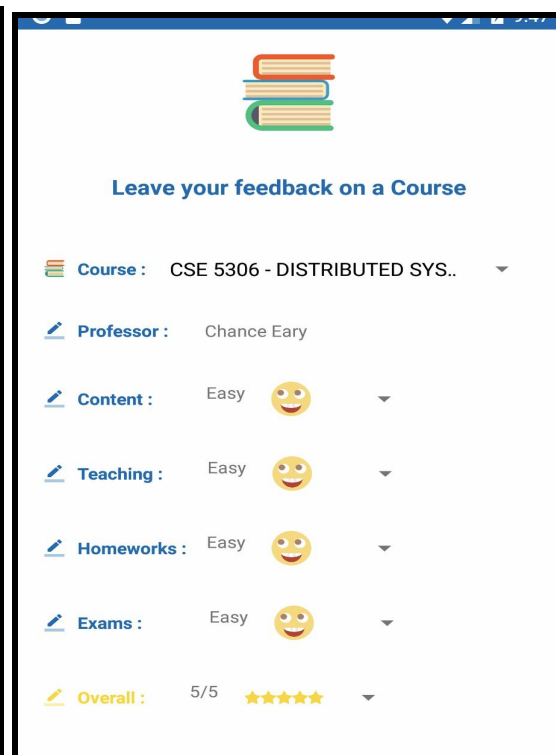
Fig 12:Rate a course form

Fig 13: Submit ratings and comment

Fig 14 : Admin privilege to delete comment

Fig 15: Admin can delete a comment

Fig 16:Open discussions tab and type mavmail
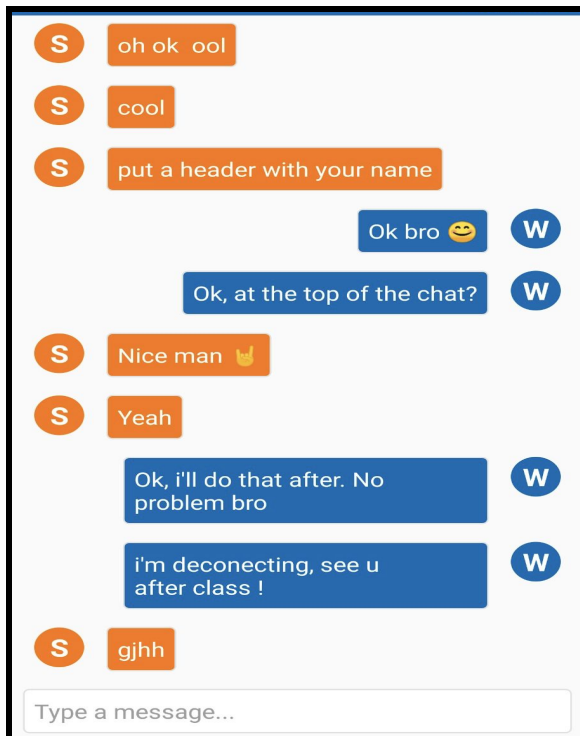
Fig 17:Send and receive messages
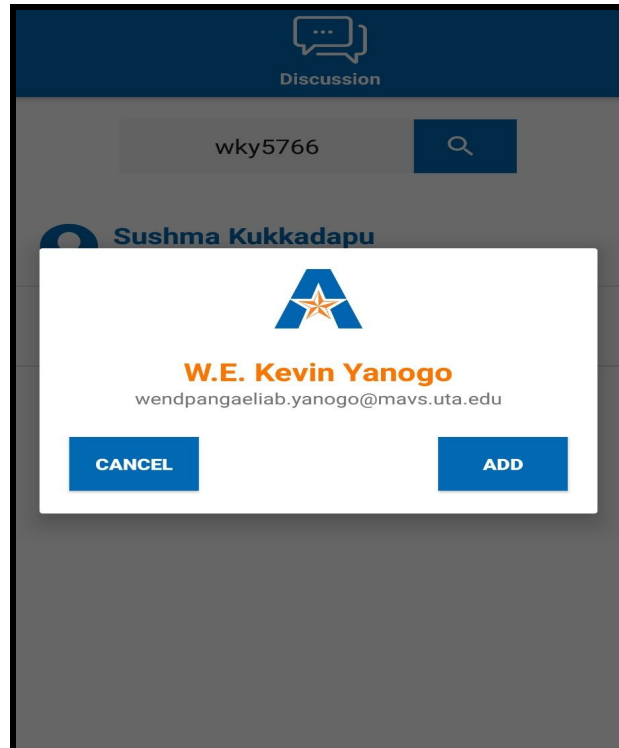
Fig 18: Add a new user /student
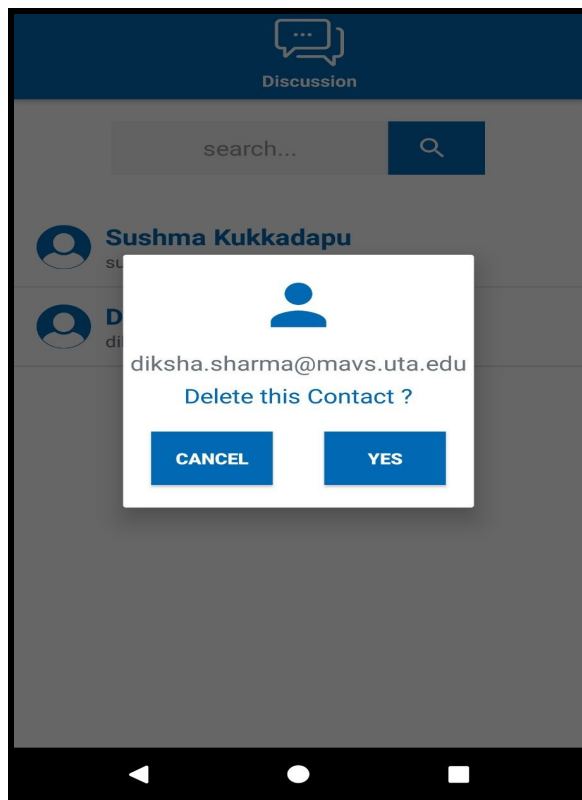
Fig 19 :Remove / Delete Contact
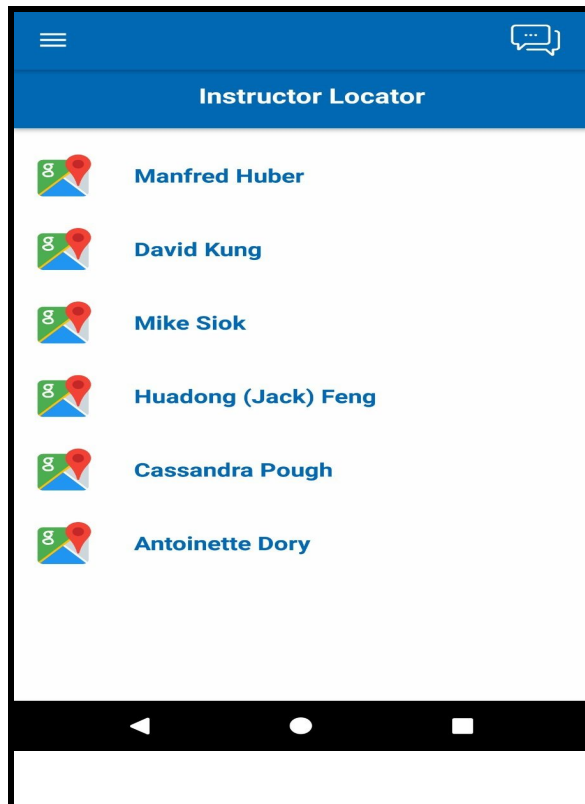
Fig 20 : Open locations tab
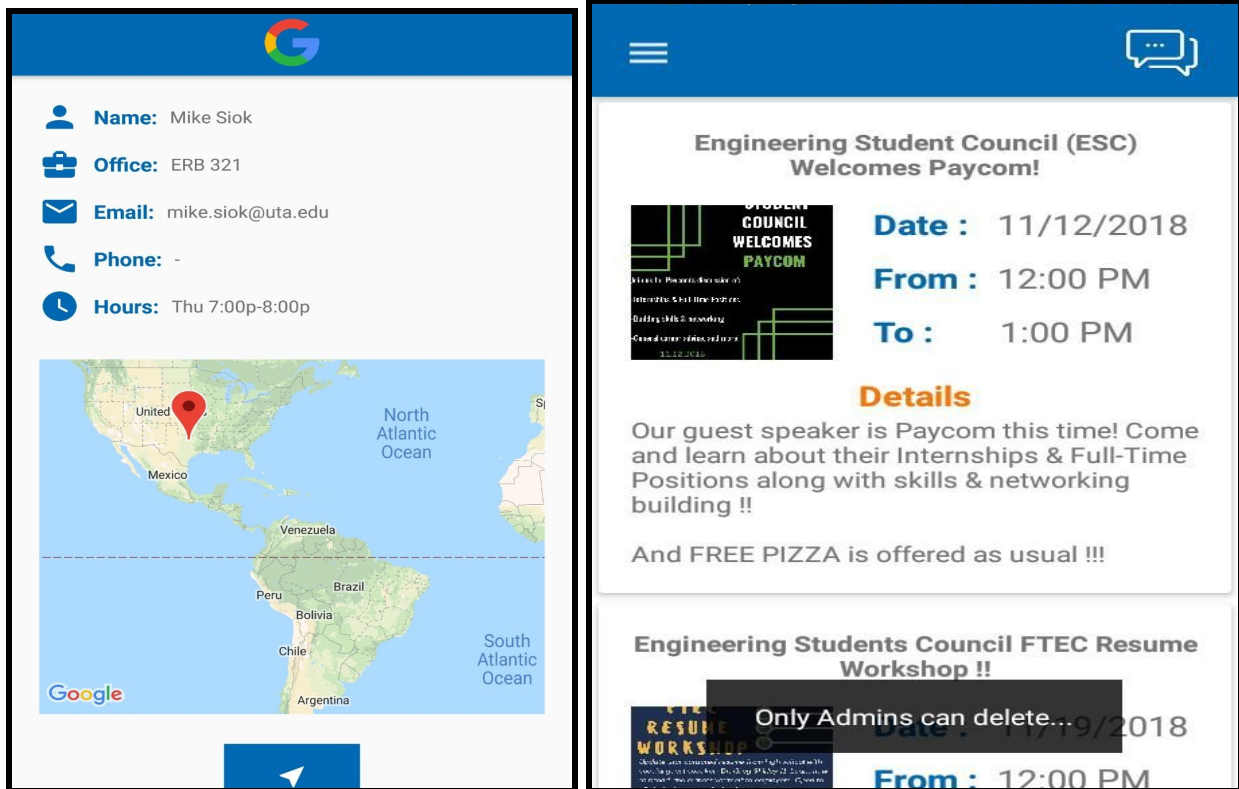
Fig 21 : View the location of an instructor

Fig 23:View the details of the events
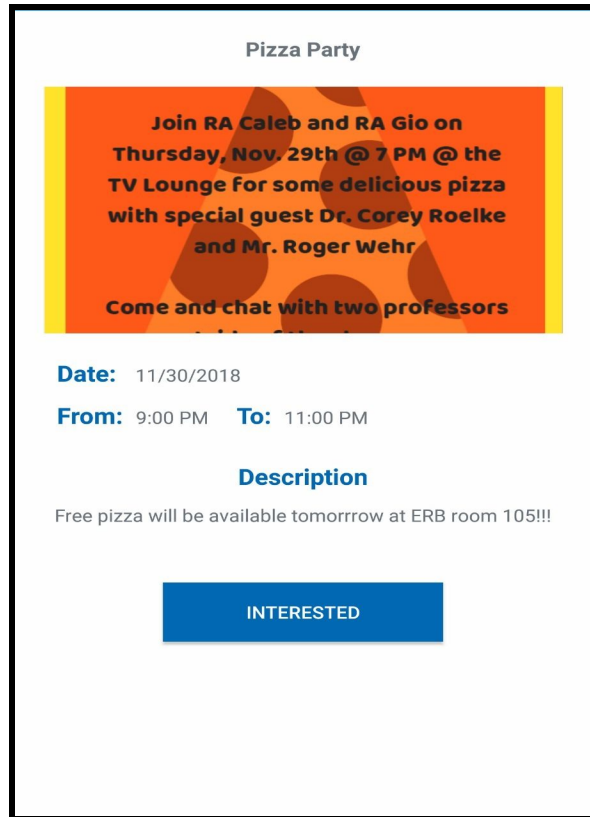
Fig 24:Mark an event as interested
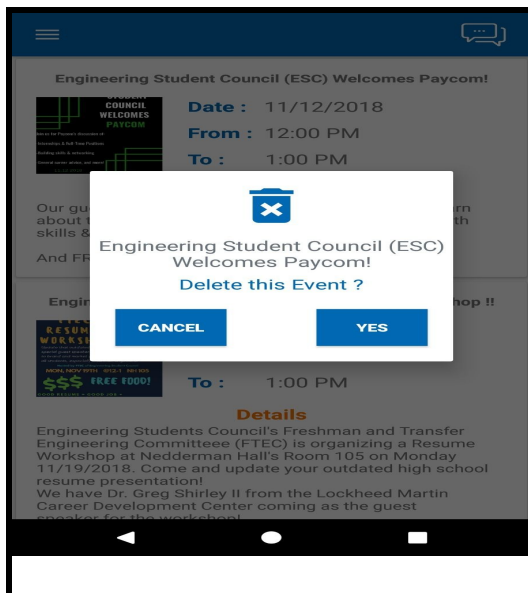
Fig 25 : Delete an event (admin)

Sequence Diagrams

Sequence diagram for Login scenario:
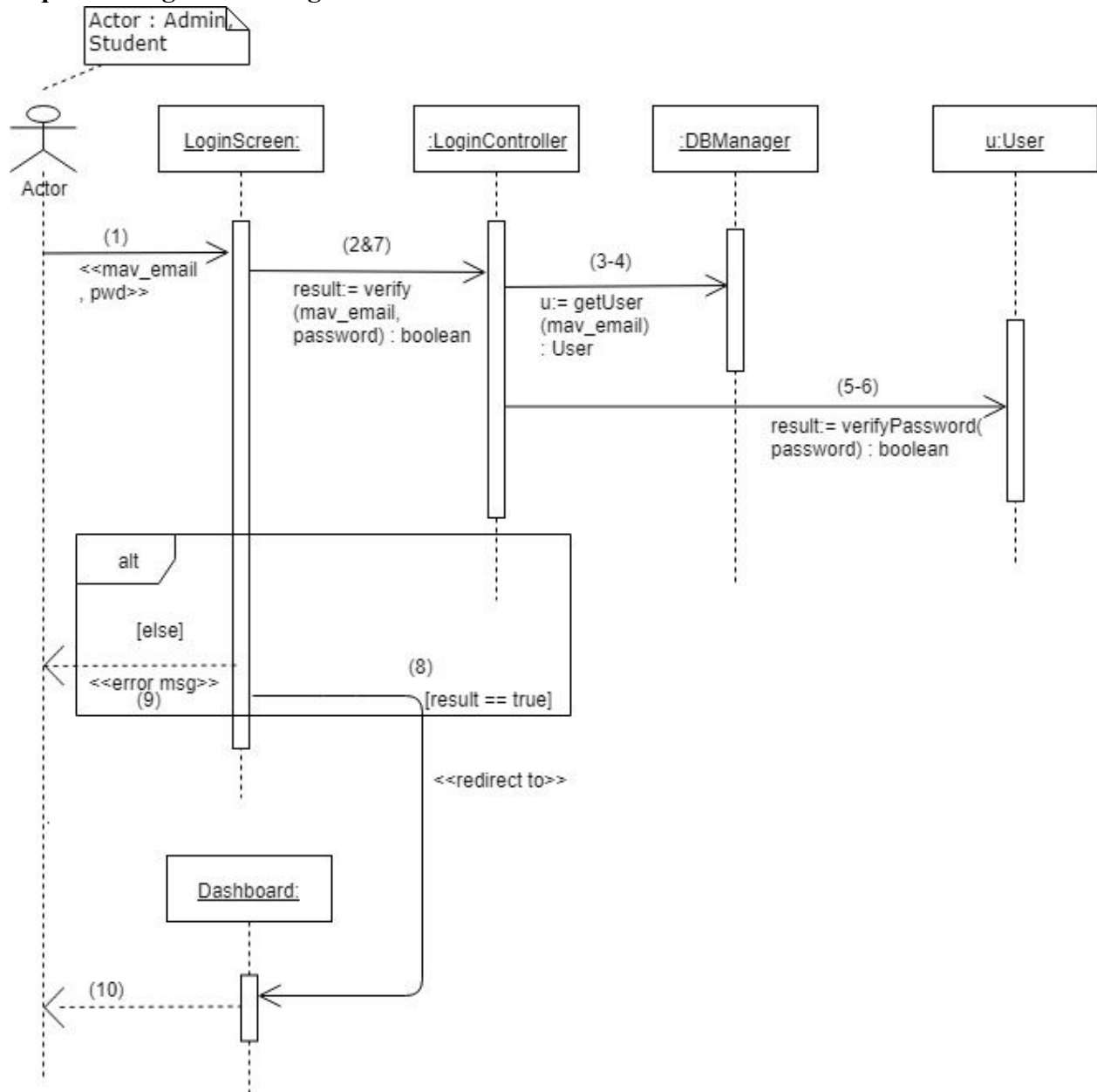
Sequence diagram for Student/Admin views Dashboard scenario :
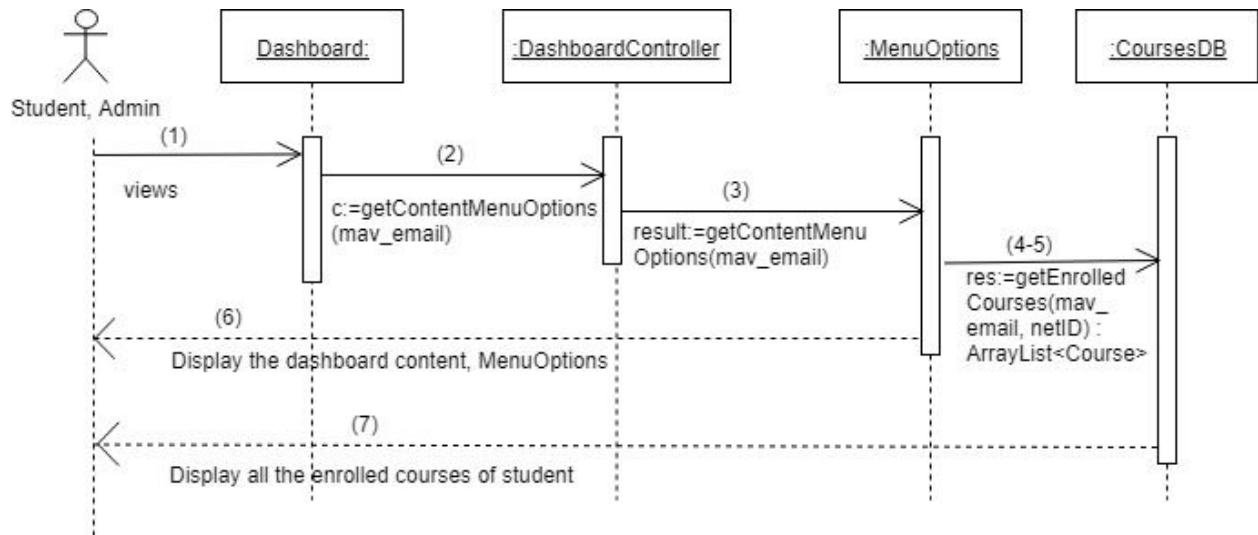
Sequence diagram for Student View Courses scenario:
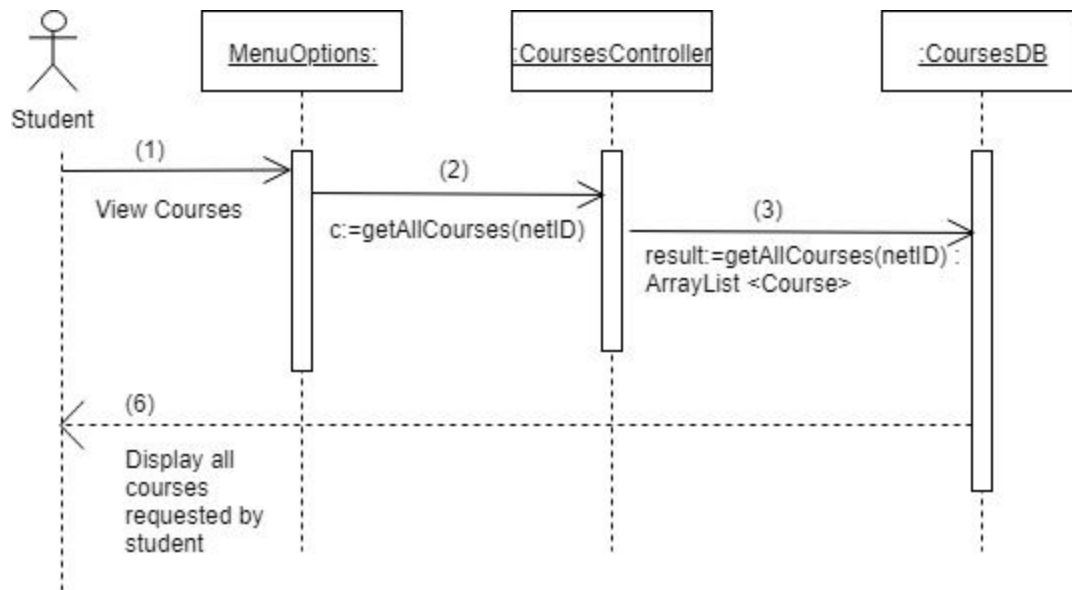
Sequence diagram for Admin View/Add Events scenario :
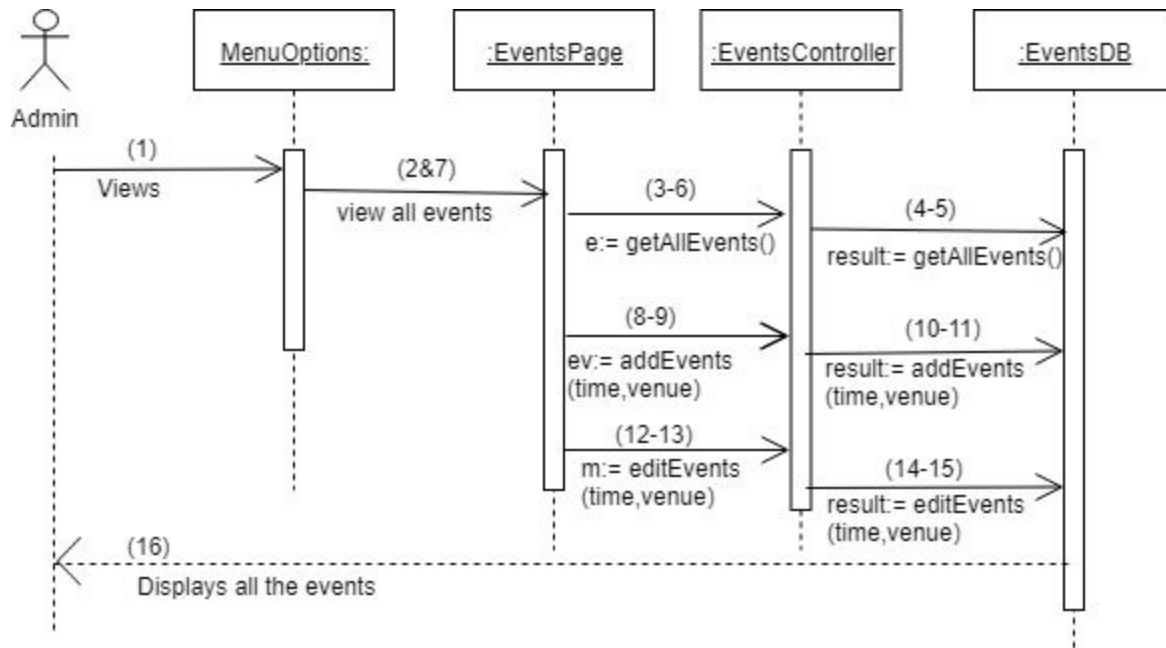
Sequence diagram for Student View Events scenario :
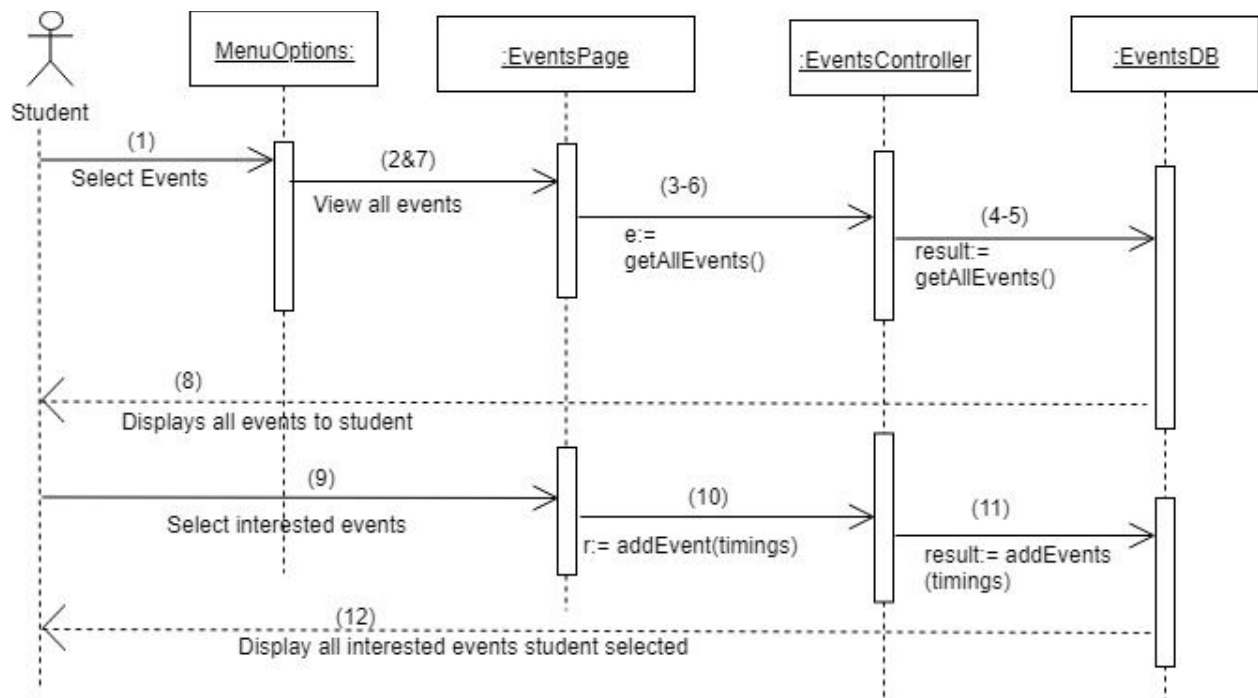
Sequence diagram for Student Discussions scenario:
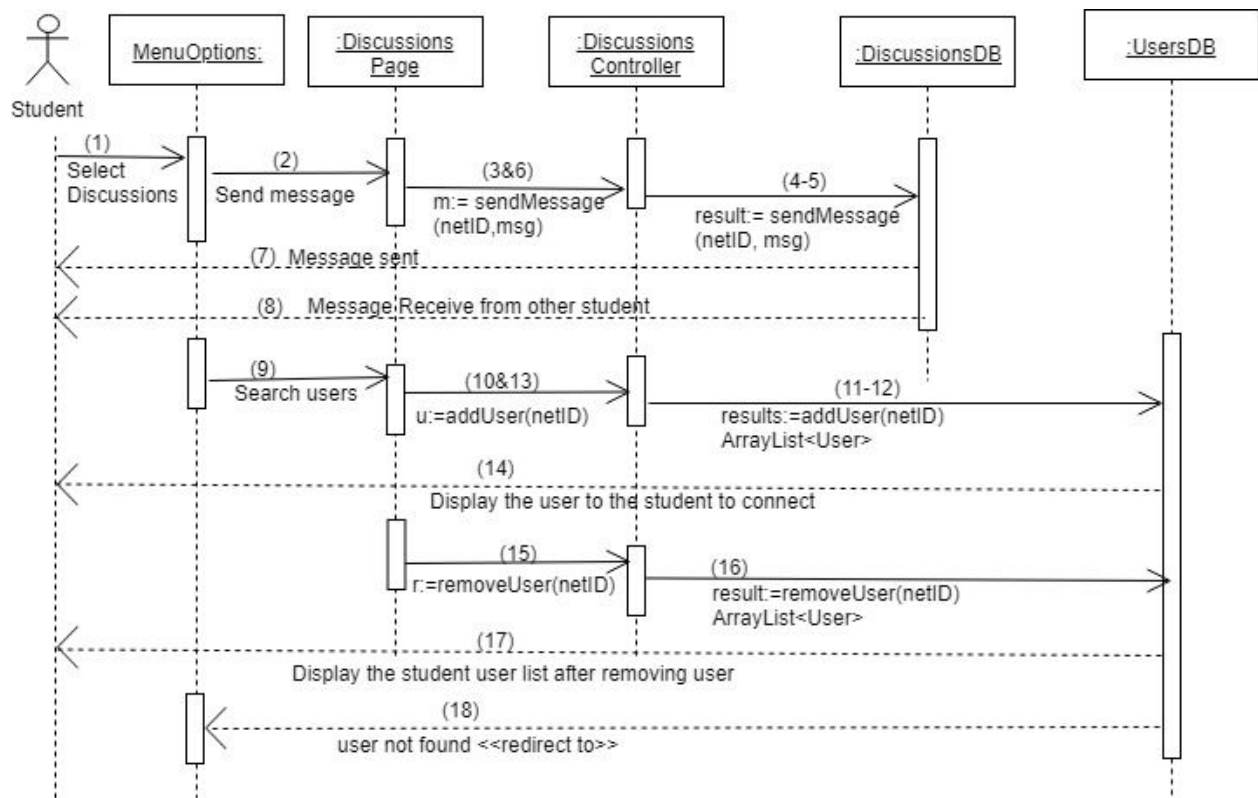
Sequence Diagram for Admin deleting inappropriate comments:
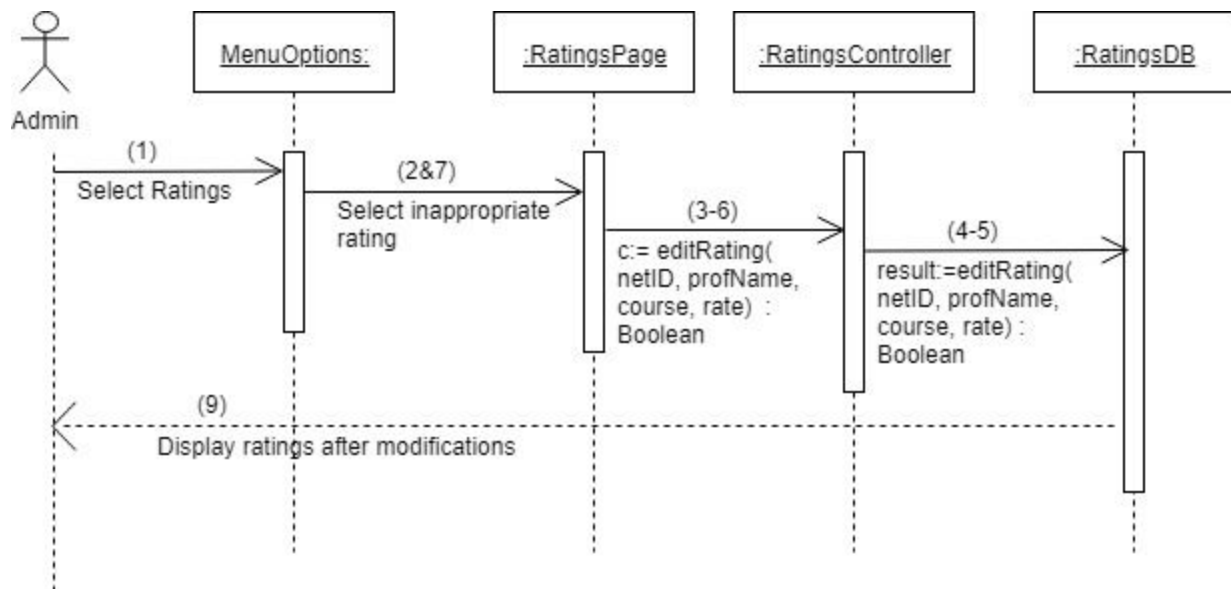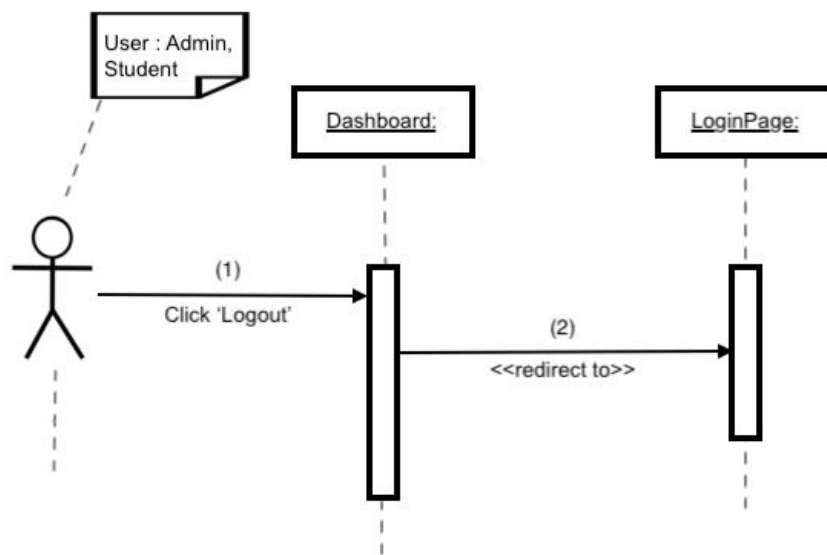
Sequence Diagram for user rating courses and viewing ratings:
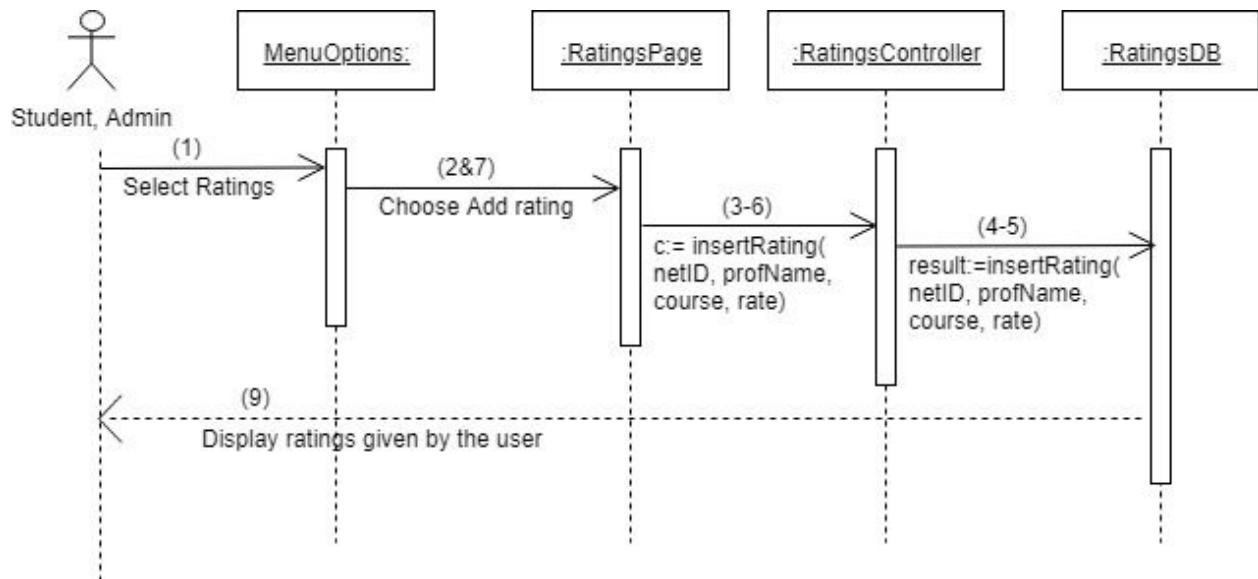
Sequence Diagram for Location route, Contact details of Professors and TAs:
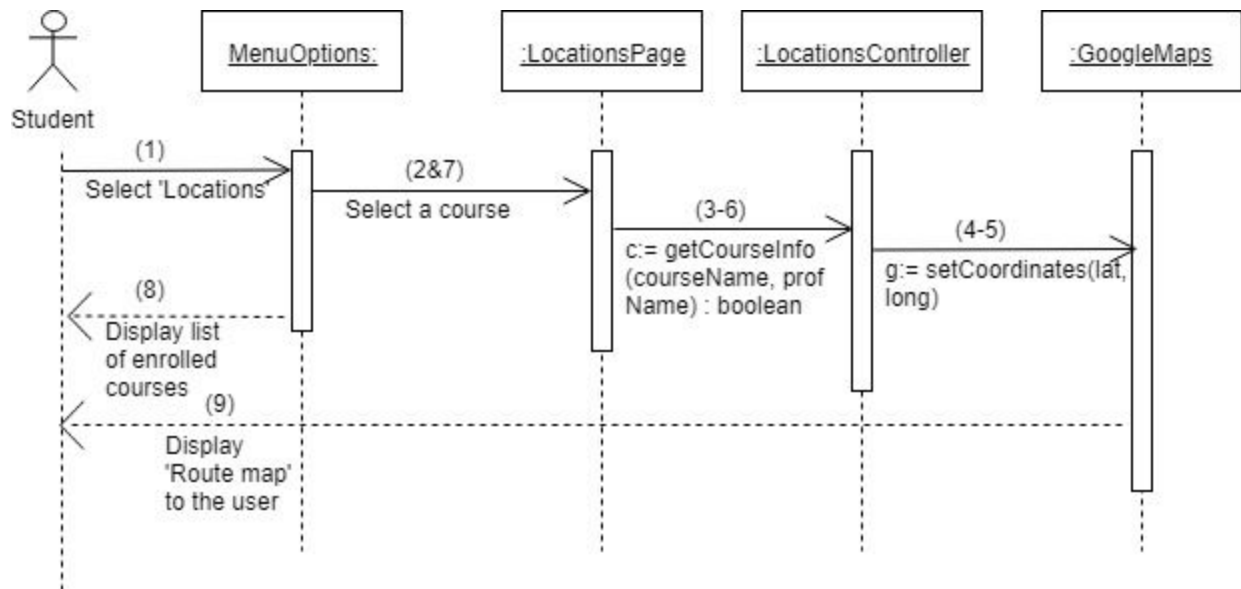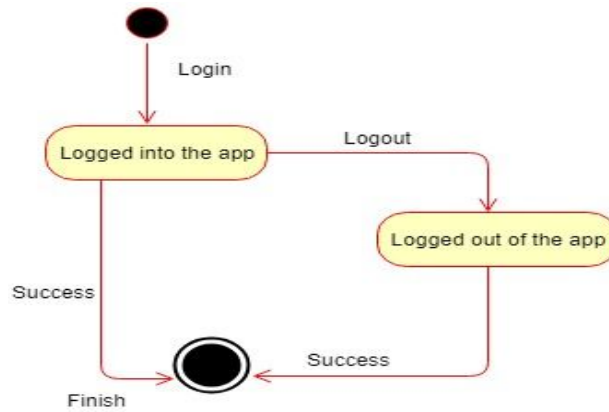
Sequence Diagram for Student/Admin logout:

User : Admin, Student

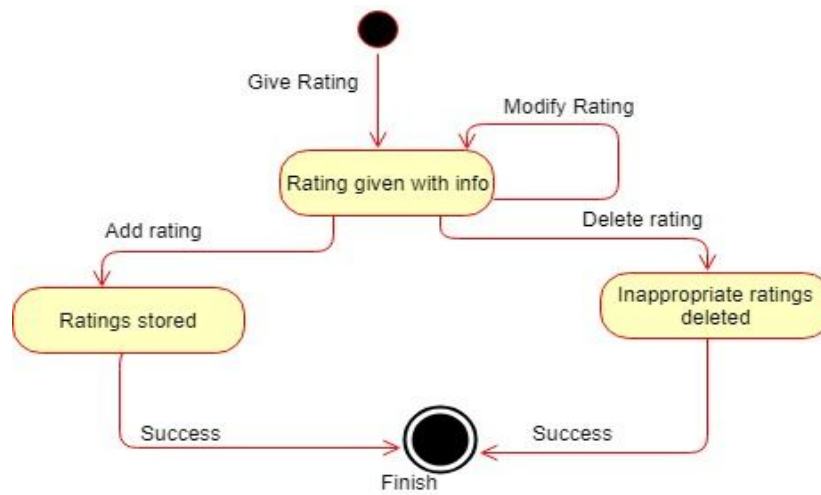Dashboard:

LoginPage:

(1)
Click 'Logout'

(2)
<<redirect to>>

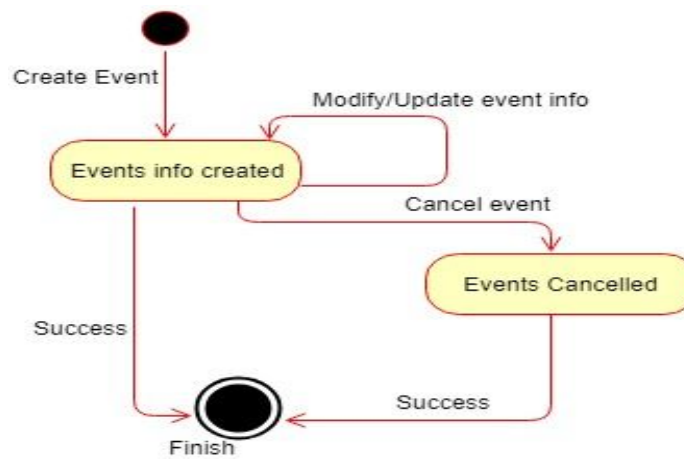# Design Class Diagram

State chart diagrams

- Login and Logout state

- Give ratings state (Admin view)

- Update/Create Events state

Youtube Demo Link