



College of Engineering

Department of Computer Science and Engineering

CMP 354: Mobile Application Development

Summer 2023

Course Project : CourseRater App

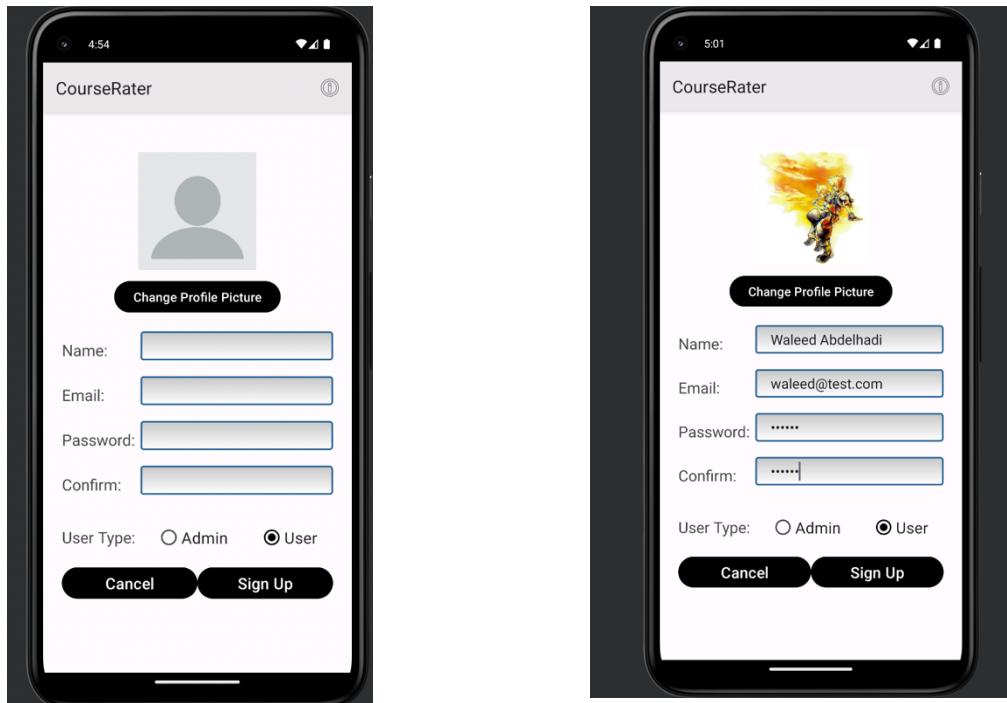
Waled Abdelhadi

B00088237

About The App:

CourseRater is a user-friendly mobile application designed exclusively for students at the American University of Sharjah. With this app, students can easily rate and review the courses offered at their university, enabling them to share valuable insights and feedback with their peers.

Sign Up Page:



The first time using the app, the user will need to sign up. Users have a choice to pick their own profile picture, or they can go with the default one as shown. Users will then have to enter their name, unique email address and password. Furthermore, there is a field for password confirmation to make sure the user entered the right password. Lastly the user can pick the account user type from either Admin or User (Normal User).

Types of Users:

1- Administrator:

Admin users could Add / Delete Departments and Courses. However, admins are not allowed to post their own reviews, yet they can still view all users reviews.

2- User:

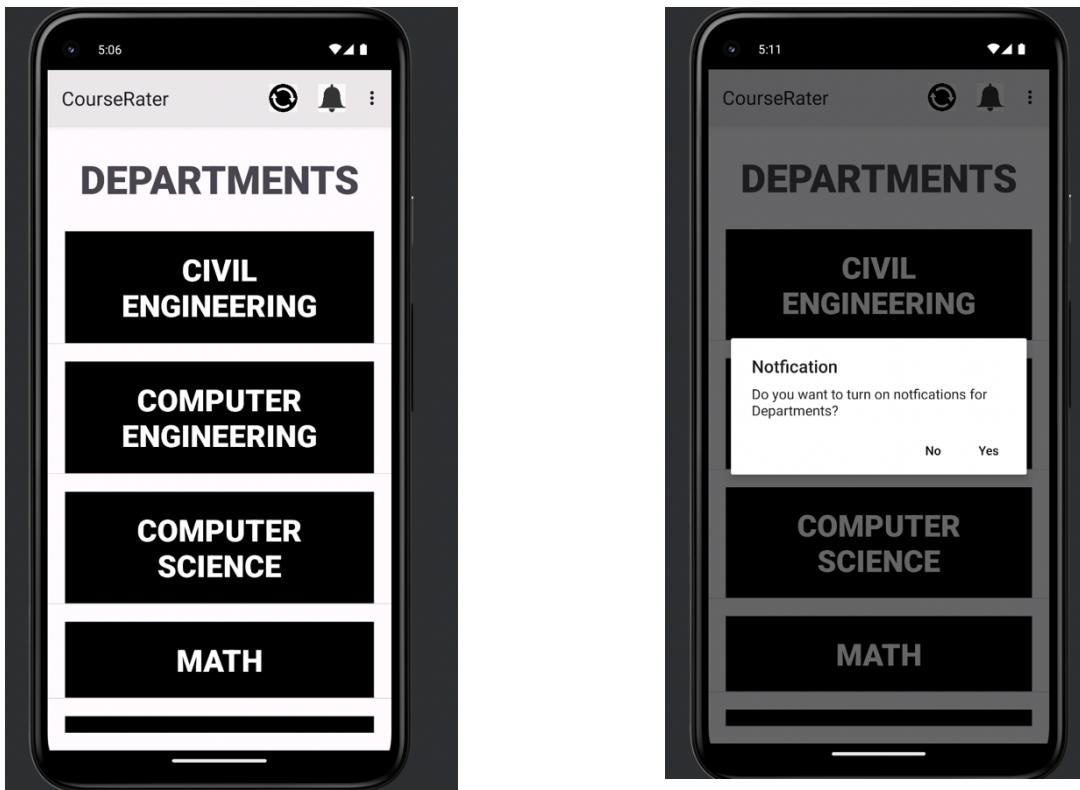
Normal users can view Departments and Courses and Add their own review in each Course.

Login Activity:

Once a user has signed up successfully, he/she will be able to sign in from the login page.



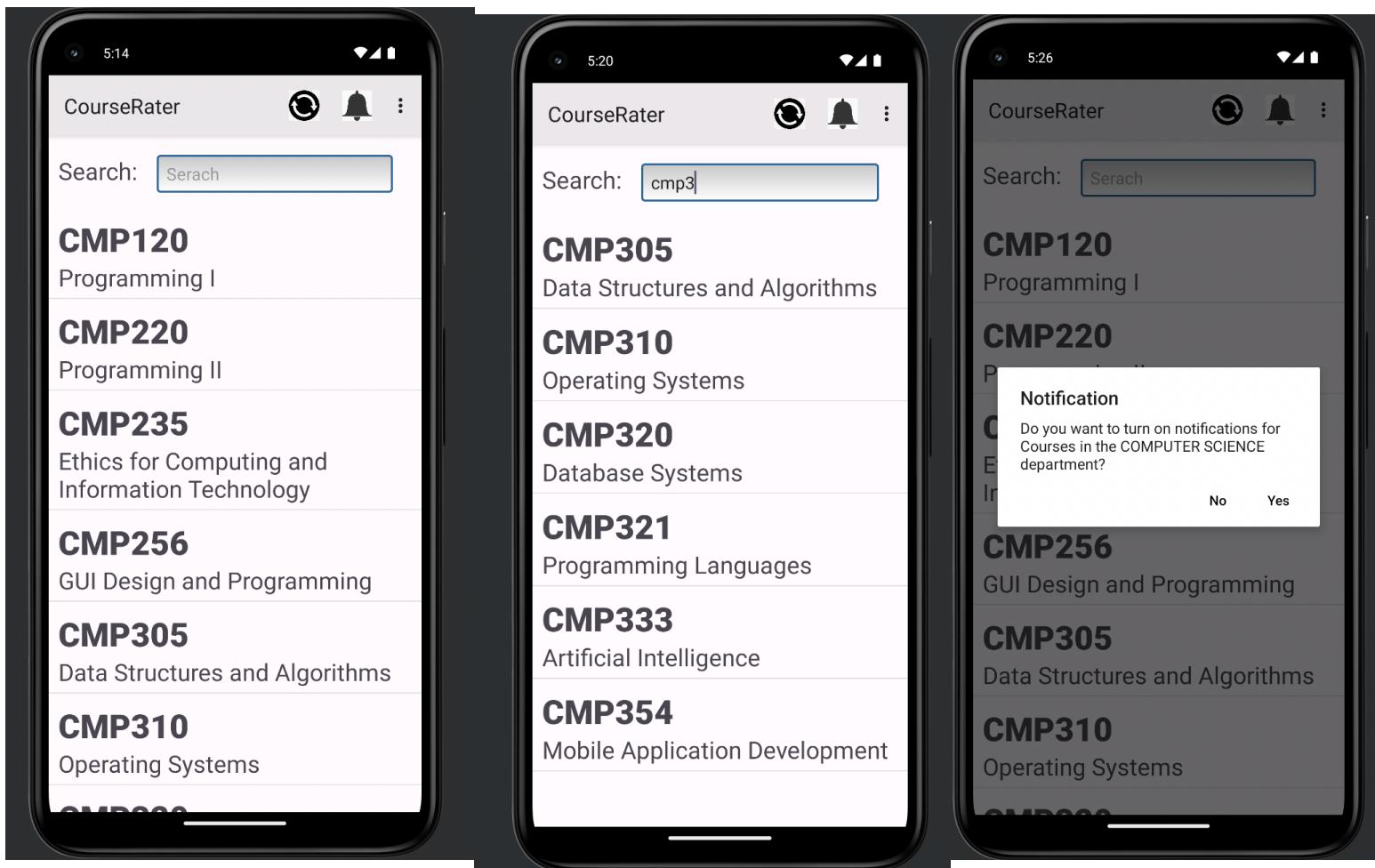
Departments Activity:



In the Departments page users can scroll and view all the available departments that the university offers and select their desired choice. Users and Admin also have the choice to use the refresh button to update and display their screen in case a new department has been added or a previous one has been deleted. Lastly, all user types can click on the bell icon to be able to turn on/off notification which sends a notification whenever a new department has been added.

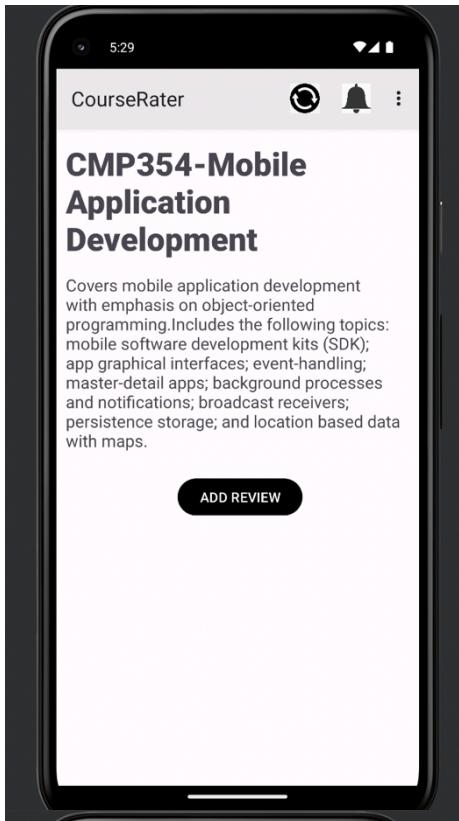
Courses Activity:

Once a user clicks on a department, he will be addressed to the corresponding Courses activity.

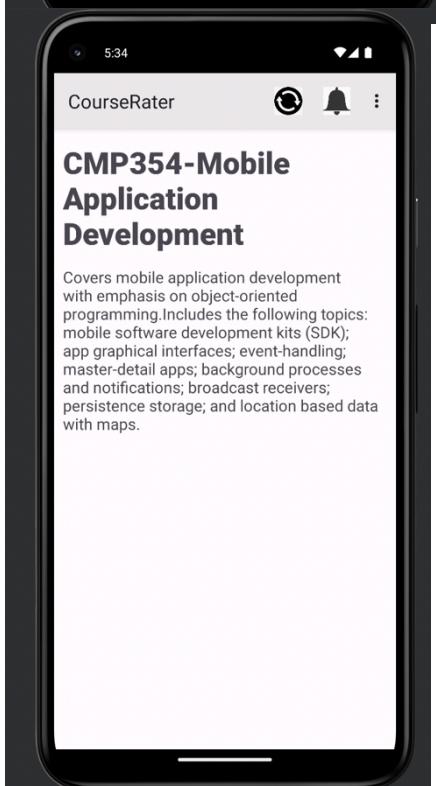


All user types have the choice to view all courses. Each course will show its unique course code in bold, and course name. Users have the choice to search for courses in the search bar, as the user enters in the search bar the courses will be updated on the screen depending on what the user is typing in the search bar. And if the characters that the user typed contains in either the course code or course name then they will show on the screen regardless of them being upper or lower case. Like Departments, there is a refresh icon and a bell icon which does the same things the department page do but for courses.

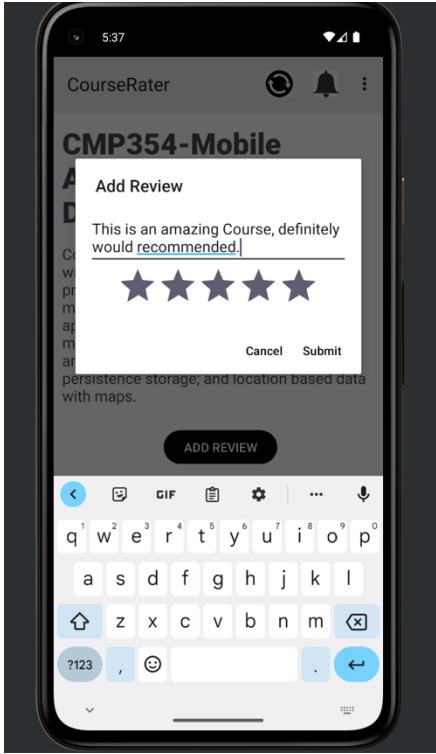
Course Page:



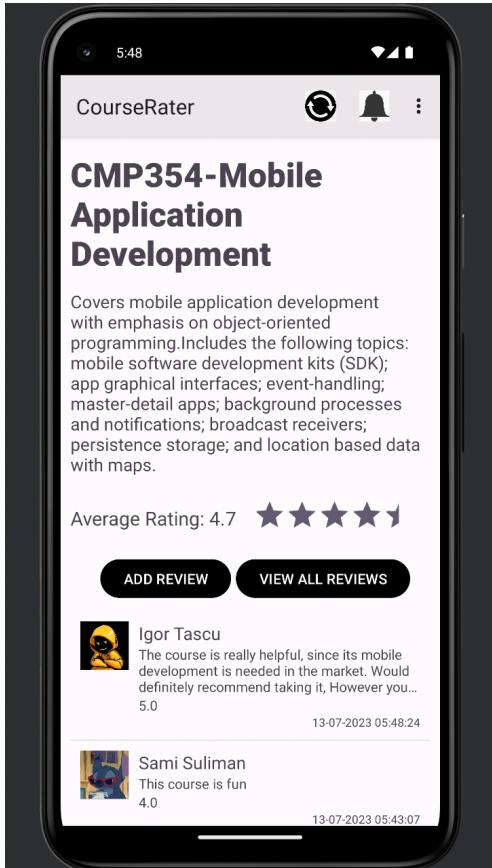
Whenever a User picks a course from the courses page, he/she will be directed to the Course activity. The course Activity has a title which contains the course code and name, a description of the course and a Add Review button which is only visible to normal users.



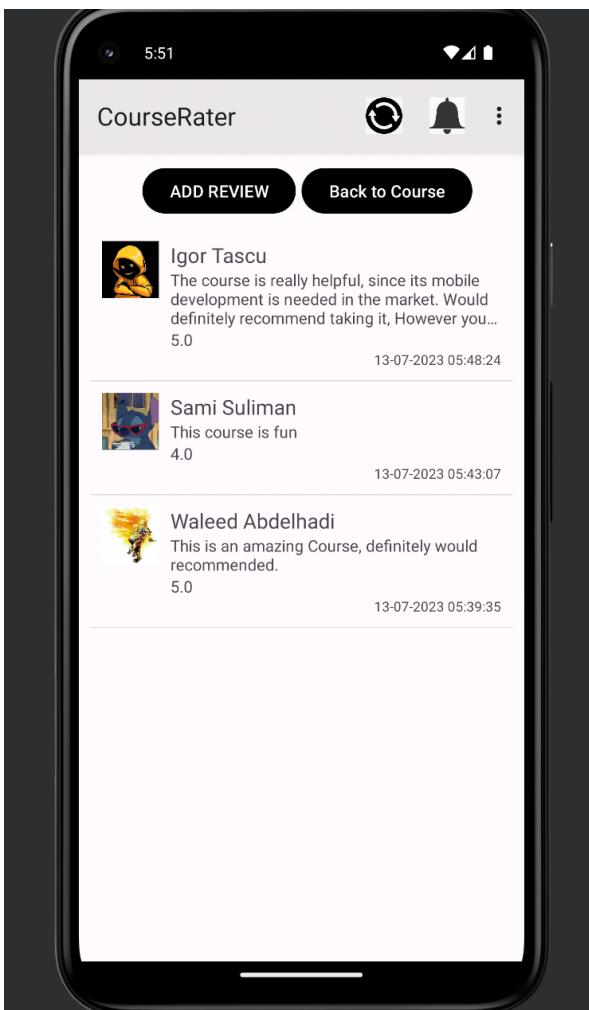
However, since admin users won't be able to Add reviews that button is not visible to them.



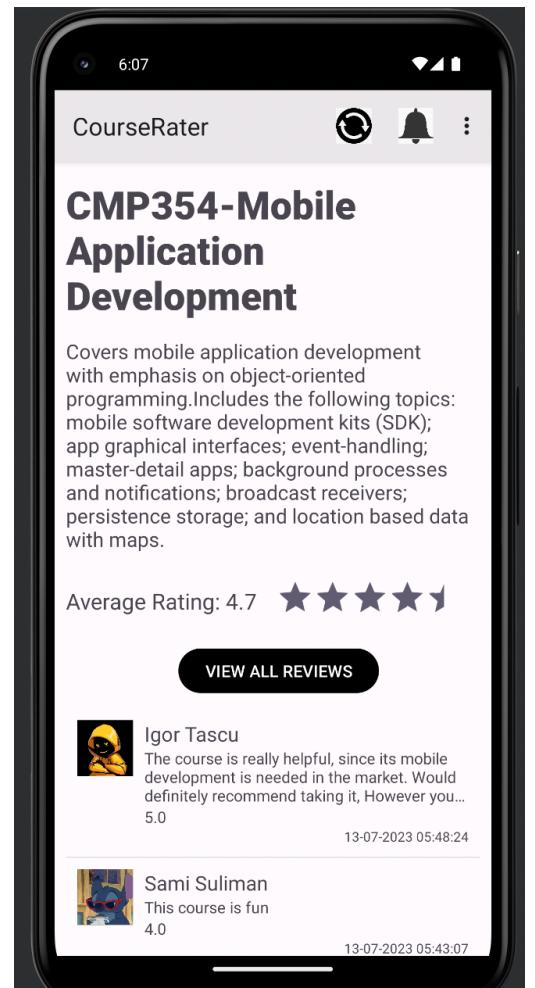
Once a user clicks on Add Review, this dialog box will show up and the user will have to fill out all the fields or else the review won't be added. The user must write out his review description and rate the course out of 5 stars using the rating bar.



Once a review has been added. The average rating for the course will show, and the “view all reviews” button will also show.

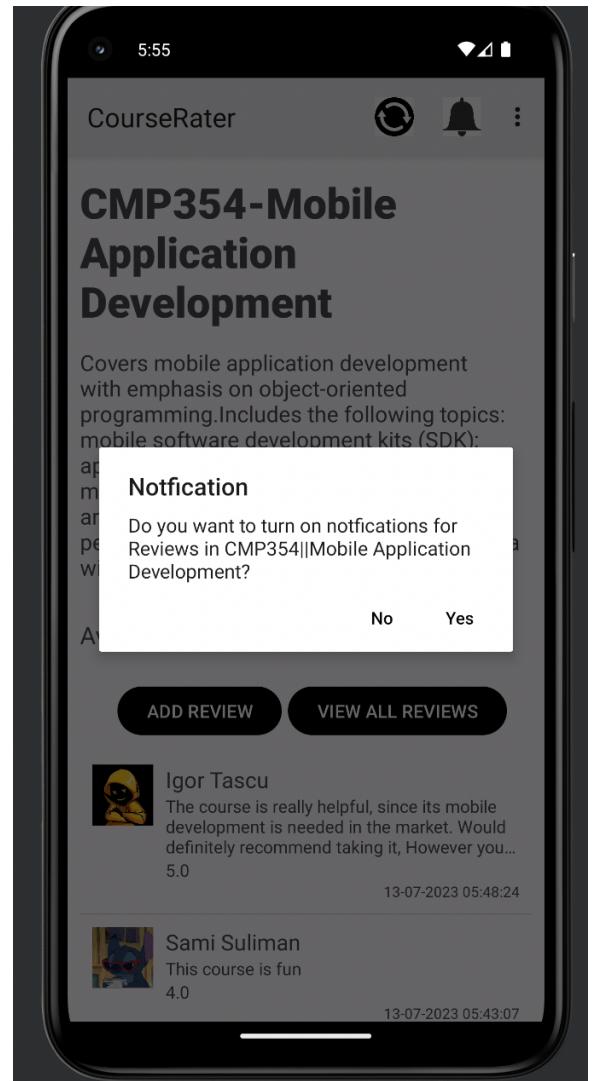


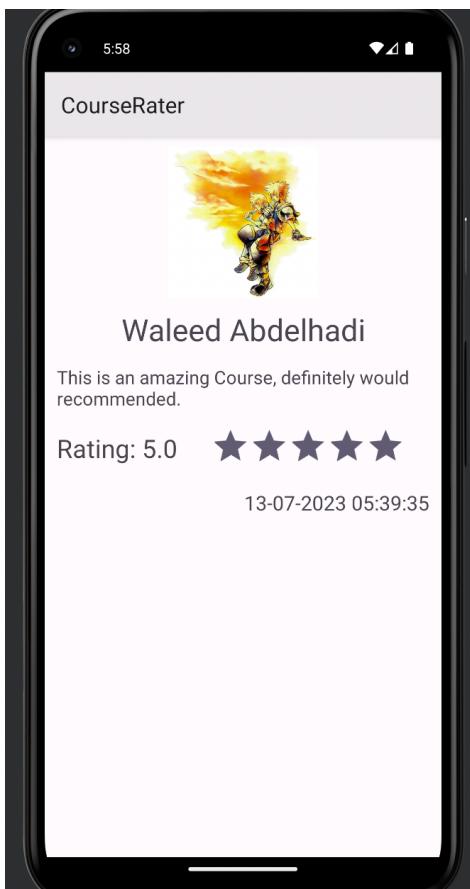
Once you click on the “view all reviews” the course title, description and average rating will disappear allowing a bigger space to display all the reviews. Lastly the button changes from “view all reviews” to “back to course”. If you click on back to course, the screen will look as how it was earlier which displays the course information. Each review item consists of the user’s profile picture, name, description, rating, and time. The description in each item will only take up to 3 lines, then the user will have to click on it to be able to view the full description.



This is how the Course activity will look like for an admin user.

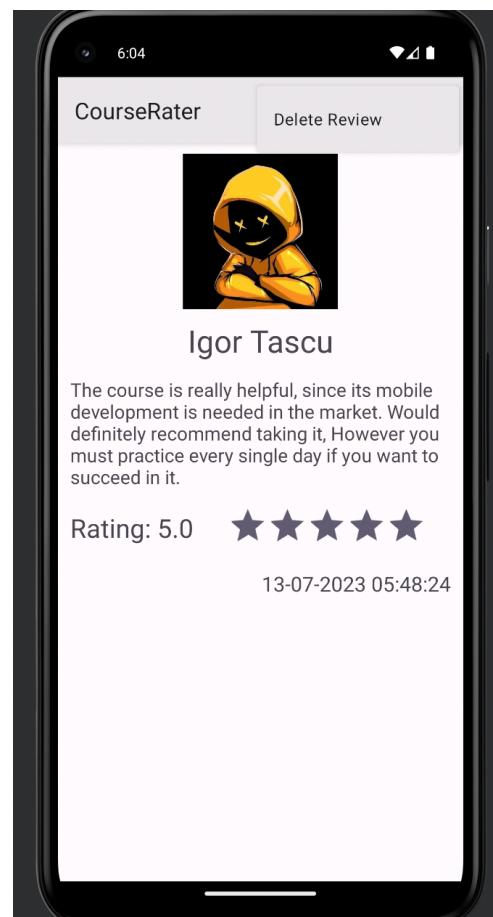
Lastly, like the previous activities, all users can turn on/off Notifications which will notify a user whenever a new review has been added in that specific course. Also, all users have the option to refresh incase a new review has been added / deleted.



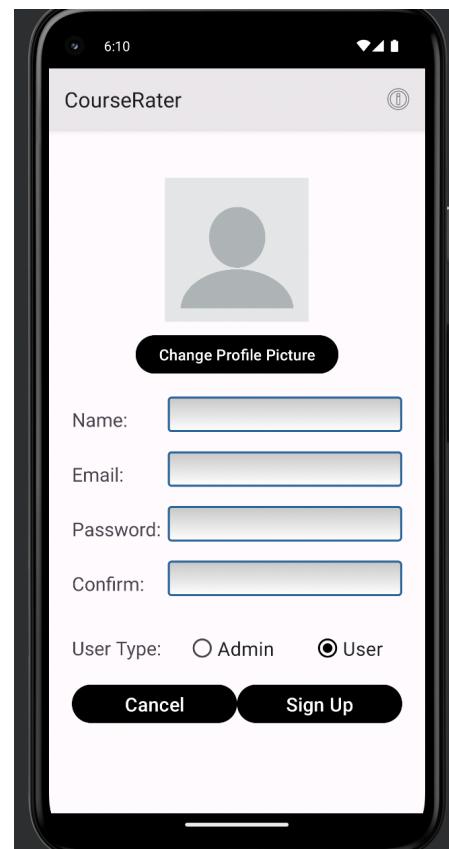


Users have the option to click on a review which will take them to the corresponding Review's activity which a user can expand the review and view its full details.

If the user clicks on the review and it's the same user who posted the review, he/she will be able to delete the review.



Menus:



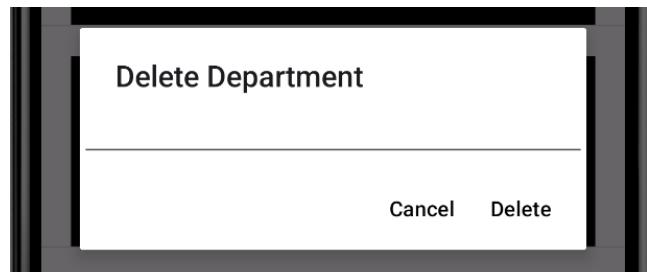
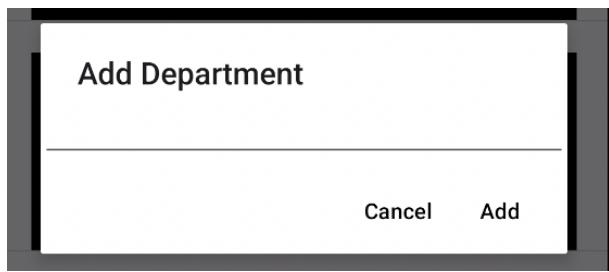
In the login and sign up activities, there is only one menu item “about” which takes the user into the About activity.



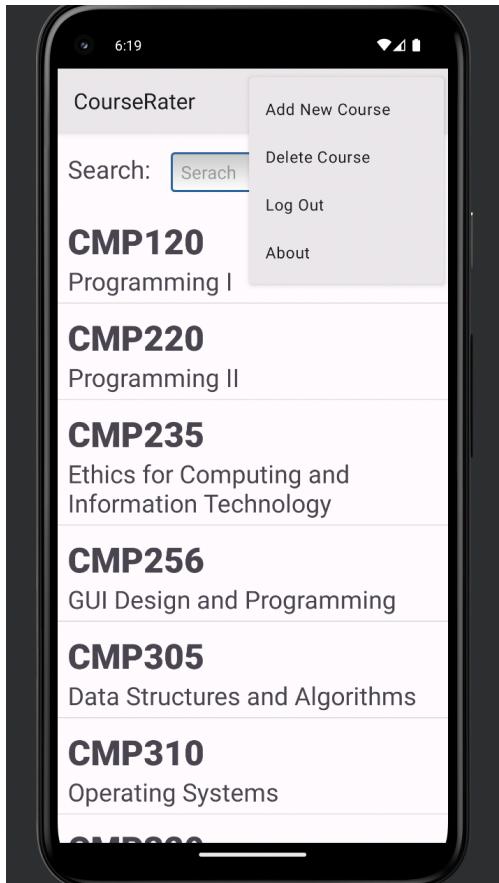
For Normal users, all activities except review have two options, either Log out, which signs the user out of his account and “about” which takes the user into the About activity.



However, for admins, it's a bit different. Admins have 2 extra items “Add New Department” and Delete Department.



Once clicked on them, the admin can simply add / delete a department by writing the name on the dialog box that pops up and click on add / delete.



The same thing goes for the Courses Activity

Add Course

Course Name

Course Code

Course Description

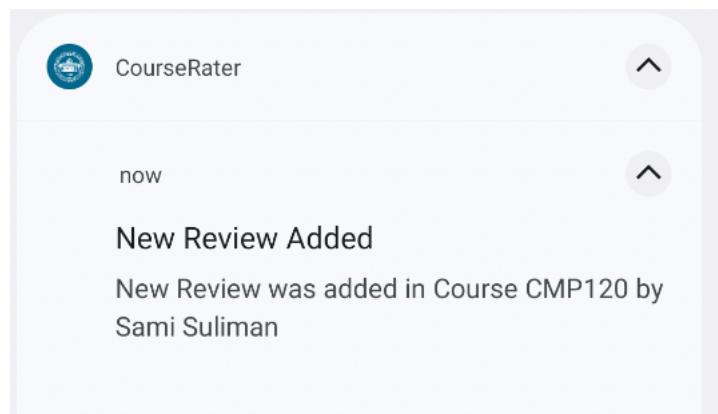
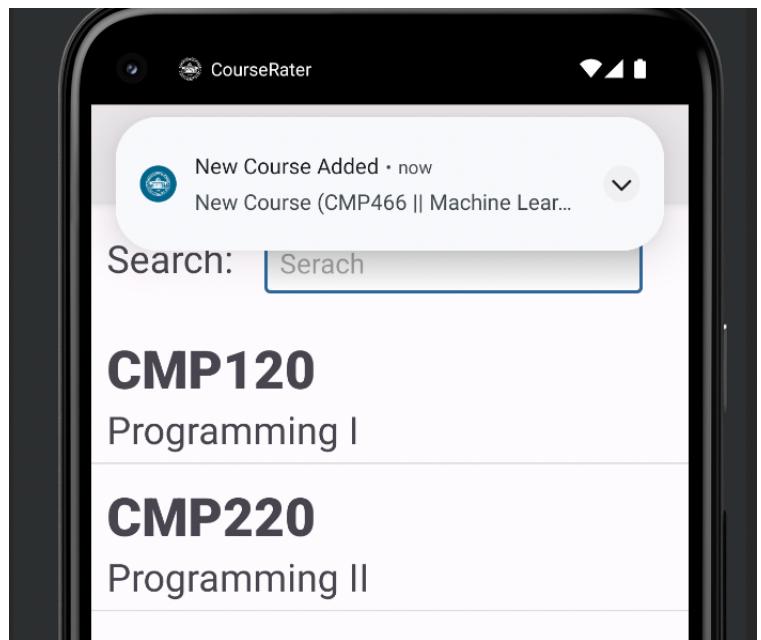
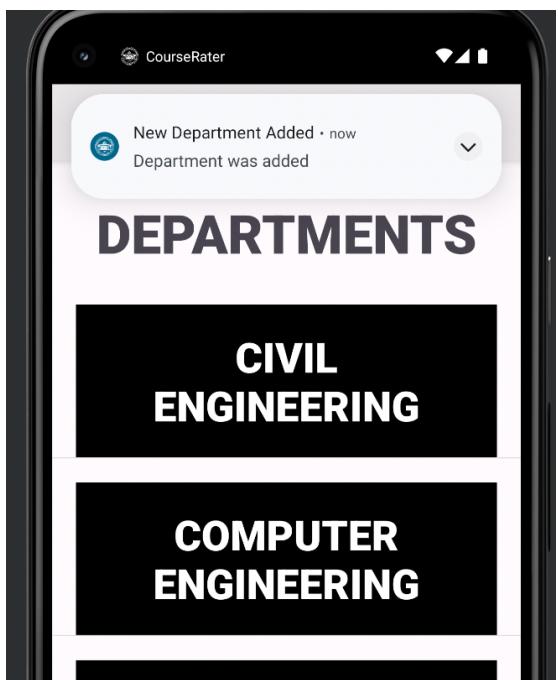
Cancel **Add**

Write the Course Code to Delete

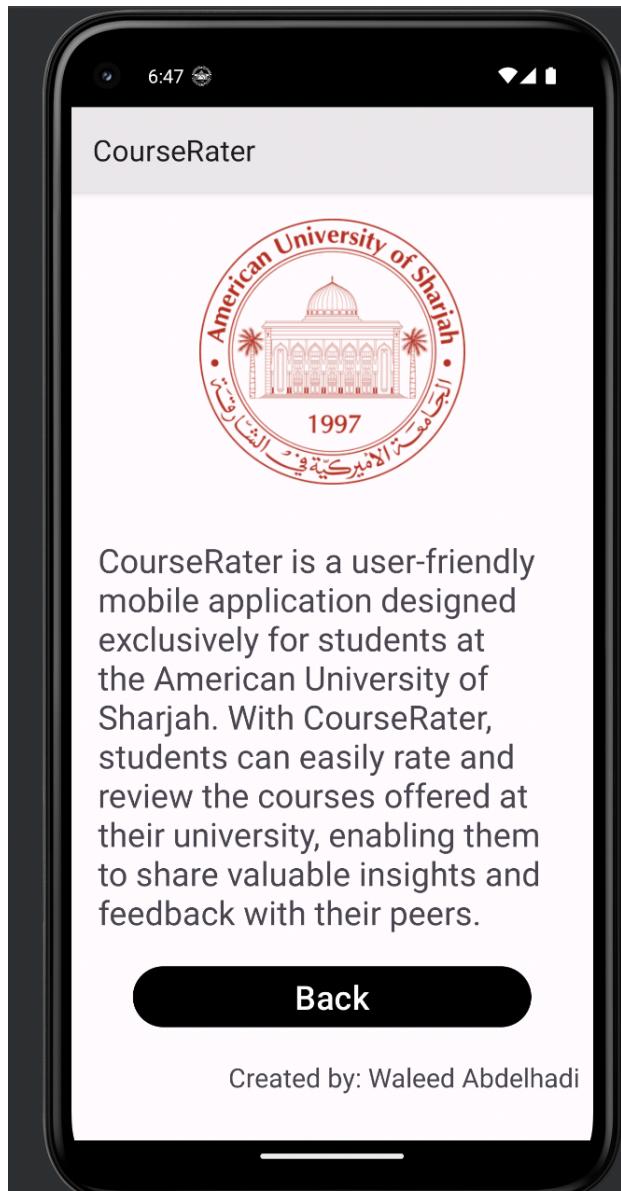
Cancel **Delete**

For Adding a new Course, the admin must enter the course name, course code and course description, however for deleting a course, the admin just enters the course code.

Notifications:



About Activity:



To end with, this is the About activity that gives a small description of what the app is about.

References:

How to retrieve / add a list in firebase:

<https://stackoverflow.com/questions/50233281/how-to-get-an-array-from-firebase>

How to store images in firebase:

<https://www.youtube.com/watch?v=mPOhnTnLcSY&t=17s>

I used chatgpt on how to retrieve the image and it recommend me to use the Picasso library

How to customize dialogs:

<https://stackoverflow.com/questions/13341560/how-to-create-a-custom-dialog-box-in-android>

How to customize buttons:

<https://stackoverflow.com/questions/18507351/how-to-create-custom-button-in-android-using-xml-styles>

How to search while typing in edittext:

<https://stackoverflow.com/questions/11134144/android-edittext-onchange-listener>

How to format decimal places:

<https://stackoverflow.com/questions/12806278/double-decimal-formatting-in-java>

How to change the app icon:

<https://www.geeksforgeeks.org/how-to-change-the-default-icon-of-android-app/>