

Purdue Course Ratings

Problem Statement

At the end of a semester, students tend to have opinions about their courses, teachers and teaching assistants. We would like to make an Android application that allows students to review their courses, professors and teaching assistants. This can be a way to provide feedback and inform other students of their experiences. There is no such method that provides students the opportunity to view what other students have to say about a course or TA and no Android application that lets students know about past experiences with a professor.

Background Information

A student's review can be very helpful for other students who want to know what courses they should take and the professors they should take it with. Feedback like this can also help professors improve courses and can help advisors know more when advising students. We intend on making an Android application that allows students to rate their professors, courses and TAs. Currently, the only options to provide feedback is through surveys issued by Purdue and the website ratemyprofessor.com. Our application allows students to view what other students have to say, which Purdue surveys do not and our project is an Android application, which ratemyprofessor.com does not offer. Our application also allows users to rate courses and TAs, which cannot be done on ratemyprofessor.com. There is currently no Android application that provides the solution that our project does.

Environment

We will be making an Android application. Therefore, we will be writing code in Java in Android Studio.

Functional Requirements

ID	Functional Requirement	Hours	Status
1	As a user, I would like to login through Facebook.	5	Completed in sprint 1
2	As a user, I would like to search for a course/professor/TA (through information pulled from the Purdue directory)	20	'In-progress: moved to sprint 2
3	As a user, I would like to filter my search further after seeing the initial results using different keywords	5	Planned for sprint 2
4	As a user I would like to view ratings (averages of all students for different criterias) and reviews of a professor/course/TA	10	In-progress: moved to sprint 2
5	As a user, I would like to write a review	10	Completed in sprint 1
6	As a user, I would like to upvote or downvote a review as helpful.	3	Planned for sprint 2
7	As a user, I would like to comment on reviews.	10	Planned for sprint 2
8	As a user, I would like to sort the list of reviews based on how helpful they are.	5	Planned for sprint 2
9	As a user, I would like to sort search results by ratings.	5	If time permits
10	As a user, I would like to edit/delete my own reviews or ratings	10	Planned for sprint 2
11	As a user, I would like to answer yes or no questions related to the professor/course/TA (e.g. is the professor easy to understand, do you need a textbook, etc.)	5	Completed in sprint 1
12	As a user, I would like to view different courses a professor teaches	5	If time permits
14	As a user, I would like to share a review on Facebook	5	If time permits
15	As a user, I would like to see who the highest rated professor for a specific course is.	5	If time permits

Non-functional Requirements

The following is a list of all our non-functional requirements:

- The app must function on any Android device.
- The UI should be clean and the interface should be simple and easy to navigate.
- We would like all of our users' reviews to be anonymous. A user cannot know who wrote a review unless they wrote it.
- The response time for any request or any user initiated action should be relatively low. A response should not take more than 3 seconds.
- The app should be reliable and not crash unexpectedly.
- The app should be able to handle at least 100 users at a time.
- The app should be compatible with Facebook in order for users to log in and share reviews on Facebook.

Use Cases

Case: Login through Facebook	
Action	System Response
1. Click log in	2. Show login screen
3. Enter username, password	4. Verify username/password 5. Display success/failure message
Case: Search for course/professor/TA	
Action:	System Response:
1.Type in something to search for	2. Find all relevant responses 3. Display items related to search
4. (optional) Select filters	5. Remove results that do not not meet filter criteria
Case: View ratings and reviews of courses/professors/TAs.	
Action:	System Response:
1. View ratings	2. Show the average rating with more specific ratings below
3. Check reviews	4. Show all the reviews sorted by the votes

5. Choose return	6. Return to the searching page
Case: Write a review to the courses/professors/TAs	
Action:	System Response:
1. Type in courses/professors/TAs' information 3. Select 'edit reviews' 5. Select 'Confirm' 7. Select "Cancel"	2. Search for professors/courses/TAs 4. Allow users to edit reviews. 6. Display review to the public 8. Discard review
Case: Share reviews or ratings on Facebook	
Action:	System Response:
1. Search for reviews wanted to be shared on Facebook 3. Select "share" to share review or rating of a professor/course/TA	2. Show all reviews that can be shared on Facebook 4. Display shared review or rating on Facebook.
Case: View different options tags associate a course/professor/TA	
Action:	System Response:
1. Click on different tags associate with the course/professor/TA 3. Select "office hours" of a professor/TA 5. Select "sort rating"	2. Show different tags that is associated with course/professor/TA 4. Display office hours of desire professor/TA 6. Display sorted list of professors/TAs
Case: Rate professor/course/TA on a scale of 1-5	
Action:	System Response:
1. Select desire professor/course/TA you want to rate 3. Click on a number you wish to give to the course/professor/TA	2. Display a rating scale of 1-5 4. Record and display the rating
Case: Write comment on reviews	
Action:	System Response:

1. Select a review you want to leave comments for	2. Show the edit dialog
3. Click 'write comment' below the review	4. Display comments underneath the review
Case: Upvote or downvote a review as helpful	
Action:	System Response
1. Select a review you prefer	2. Display options such as "upvote" or "downvote"
3. Select either "upvote" or "downvote"	4. Record the response and display the numbers of upvotes or downvotes of a review
Case: Sort searching results by rating	
Action:	System Response:
1. Click 'Sort'	2. Display a list of sorting options
2. Click "Sort Rating"	4. Display ratings from highest to lowest
5. Click "Helpfulness"	6. Display reviews/ratings based on helpfulness level
Case: Edit information on a course/Professor/TA	
Action:	System Response:
1. Click on "Edit Information" for a course/professor/TA	2. Display options menu for users to edit information of a course/professor/TA
3. Click "Yes" or "No" according to each course/professor/TA information	
4. Click "Save"	5. Update information accordingly to "Yes" or "No" responses on information page
Case: Filter searches with tags	
Action:	System Response:
1. Click on a desire course/professor/TA and select filter	2. Display options menu for user to choose categories to be filtered
3. Select as many categories and click "Apply"	4. Display courses/professors/TAs accordingly to the filter options