

2023-2024 Semester Project

BLM3520 Introduction to Mobile Programming

Assignment - 3

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Subject: Course Assistant Application - Courses and Reporting

Related Topics: Activity, Intent, UI Design, RecyclerView, Data Management

Content:

1. Course Module:

A page that lists the attending/complete courses.

- a. Course information should include an **ID** (This will be the course ID currently used like BLM3520), **course name**, **date**, **group numbers**, **instructors** and **students** who are registered to the courses.
- b. A course must build a **one-to-many relationship** within course groups. So, a course section can contain many groups, but each course group will be associated with only one course and cannot belong to different courses.
- c. When courses are first created, the instructor must specify the number of course instructors and should assign each instructor to the respective group within the course.
- d. Instructors can appoint other instructors to different groups within the course. If the instructor does not assign any group to the new instructors, then they will not be able to assign or delete students from the course. After the instructor assignment is complete, the group information can be modified by the assigned instructor.
- e. One can list the courses in descending order by date using CardView (Attending/Complete, course code/name)
- f. One can filter the courses by year and completion status (Attending/Complete)
- g. One can display course details on course selection (course code/name, course group and number of students attending). In the future, this section will also contain course content where selective modules related to courses can be interacted with.
- h. Instructors can:
 - i. Add/Delete/Update course and course information
 - ii. Manual/Auto-assign student(s) to courses (given a CSV file with headers Student_ID,Email). This assignment will only concern the group the instructor is appointed to. If the instructor is not appointed to any group they will not be able to assign students. Students that are assigned will be assigned to the group the instructor is appointed to.
 - iii. One can also delete registered students from courses. Instructors can only delete

- students from their own group.
- iv. One can appoint additional course instructors
- v. One can view students who are registered to courses
- i. You are expected to add this module on top of the Assignment 2 program. If you have not delivered Assignment 2, then you have to display the difference between a student account and an instructor account capabilities.**

2. Reporting Module:

A page letting users report content like comments or posts.

- a. View a list of reports sent by the student using RecyclerView (in date descending order). This list will only be viewable by the admin and instructor. The instructors will only see the reports related to the course they are assigned to.
- b. Use Intents to compose an email and send it to the Course Instructor/Admin
- c. Writing and sending a new report:
 - i. Select the scope of the report (App related misconduct, Course related misconduct/misbehavior/cheating)*
 - ii. Select the name of the course*
 - iii. Select the recipient (Course Instructor/Admin)*
 - iv. Subject and body of the report*
 - v. Validation checks of mandatory (*) sections before sending
- d. Posts and messages will have a reporting button. When making a report a user will be asked to give the reason for reporting and select scope of the report. The report then will be sent to the admin and instructor related to the message that is reported. If the message is related to a course then all the instructors will be notified but if the message is not related to a course then the admin will be notified.
- e. As there are no messages to report in the initial state, you need to create a mock message that can be reported through this module.**

Important Notes:

You should upload,

1. Source codes **and APK file** to GitHub platform
2. **StudentID.pdf** to online.yildiz.edu.tr (should include the video link and the GitHub link) until **12.05.2024 23:59 before midnight**.

- While presenting your work you should **introduce your application** as well as **your code**. Please **explain the functions** of your application. **At the beginning** of your video please **introduce yourself with a camera on**.
- Do not prepare a report.

VERY IMPORTANT

Please keep your GitHub link private and make it public after the deadline of the assignment. Unless, similar codes will be punished.