Software Project / Department of Computer Science / The Technion 236271+236272

The Technion – Israel Institute of Technology
Department of Computer Science
236271+236272 Project in Android Development
3+2 Credit Points
Prof. Eran Yahav

Winter 2024

Abstract: In this course, we shall study the topic of developing mobile application, and we shall implement application for mobile smartphones running the Android OS, using the Flutter software development kit. Application ideas will come from the students themselves (as part of the registration process).

Openings: up to 40 students. You have to be a student of the department of computer science, or one of its major track, at least in their 3rd year. That is an electrical engineering student enrolled in the joint computer engineering track. For details and registration see course site. For questions, contact the Teaching Assistants.

Prerequisites: Flutter development is done in Dart and usually involves networking, databases and files. A prerequisite for the course is prior experience with an object-oriented language (such as Java). A passing grade in OOP course (236703) or the yearly project satisfies as prior experience. Other form of experience will be considered by the course staff. Students who are not familiar with databases/networking may register but these subjects will not be taught in the course and you will be expected to meet the same standards as the rest of the students.

Teams: Students shall work in teams of 3 applying the agile software development method. Each team shall be responsible for developing a distinct application. Registration is for teams only. Singles and doubles will not be allowed to register.

Schedule: the course will weekly include lecture on developing applications for Android OS, including relevant Agile development practices. In the first weeks there will be additional lectures (with contents which doesn't overlap with the regular lectures) in order to give all students the basic knowledge required to start working on their applications. Also, in the first weeks the students will need to submit several home assignments. At the end of the semester the students will present their mobile applications to the student body.

There will be several submission dates (during regular lecture times, dates will be published later). Attendance on those dates and on submission dates is mandatory. Submission of final application will be at the end of the semester. Rest of the semester dates are according to the regular Technion schedule. The course includes a final exam.

Evaluation. The grade in the 236271 course will be based on a final exam on the material taught in the lectures. In a case that the exams will not be held in the campus, an alternative online exam will take place. In the course 236271 the grade will be based on activities and meetings held during the semester and based on the quality of the submitted application.

The contents – מטרות למידה המשותף

The course gives the student the ability to:

1. To understand the development process of Android applications.
2. To become familiar with the Android development environment.
3. To develop an Android application using the Flutter framework.
4. To work in teams and learn about teamwork.

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