Software Project / Department of Computer Science / The Technion 236503+236603

Spring 2019

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. 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, or an information systems student enrolled in the joint information systems track. For details and registration see course site. For questions, contact the Teaching Assistants.

Prerequisites: developing Android application is done in Java and usually involves networking, databases and files. A prerequisite for the course is prior experience with Java. A passing grade in OOP course (236703) or the yearly project qualify 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 include weekly 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.

評価

評価：本コースの評価は、プログラム設計の技能および知識の理解度に基づいて行います。これは、参加者のプロジェクトに対するペアワーキングを通じて行われます。参加者は、自身のプロジェクトを設計し、実装し、テストを行い、結果を示すためにプレゼンテーションを行います。

クラスミート：3週間ごとに、グループでのディスカッションを行い、全体の理解を高めることができる。さらに、プロジェクトの進行状況を確認し、課題を共有する機会です。

活動：参加者は、毎週のレッスンで、モバイルアプリケーションの開発に関するテクニックや戦略を学びます。また、レッスンでは、ディベロッパーやシステムエンジニアリングの役割についての基本的な理解を提供します。