Introduction to Software Development III (IE Course)

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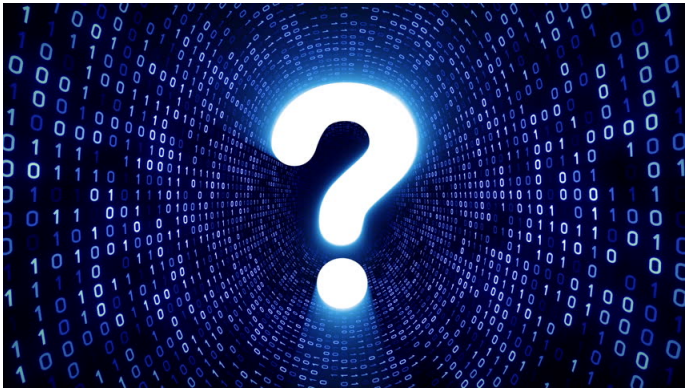
Outline

Modern Software Development



Course Content

- Agile development
- User stories, story mapping, project planning
- Continuous integration and team work
- Web development – JavaScript and Node (no C++!)
- Data persistence
- Automated integrated and end-to-end tests

Lectures

- Short video recordings and in-person lectures/discussions
- Blended learning approach
- Attendance at lectures is expected
- Supplementary material

Preparatory Laboratories

- 4/5 structured labs which get you up to speed on the technologies to be used in the group project
- Myself and the TA will be available for assistance on Thursdays in the D-Lab, 10:15 to 12:00
- Will start next week
- Work in groups of 4; groups will be finalised once the course numbers have stabilised
- Attendance is not compulsory but doing the work is *essential*
- Preparatory labs do not count for marks

Group Laboratory

- Will follow on from the preparatory labs
- Groups will be required to build a software product
- Submission deadline near the end of the course
- Product will be developed using an agile approach
- Assessment will focus on the development process
- Counts 35%

Individual Research Project

- Requires self-study; will deal with a topic not covered in lectures
- Aim is to broaden your understanding of technologies / techniques / methods / tools / languages used in software development
- Introduction to research, rather than build and test
- Involves a limited practical aspect
- Due on the first submission date
- Counts 20%

Exam

- 2 hour written exam
- Closed book, basic scientific calculators allowed
- All material covered in lectures, preparatory labs, readings, and the individual project and group laboratory is examinable
- Counts 45%

Teaching and Learning Approach

- Weekly announcement explaining where we are with the course
- Fair amount of self-study, guided by lecture topics, labs, supplementary material
- Strong focus on collaborative, group work
- *In-person* consultation during labs and before/after lectures
- Videos, lecture slides, labs, project briefs, etc. posted to the Ulwazi website

My Contact Details

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Course homepage: `https://witseie.github.io/software-dev-3/`

Is this the state of software development today?