Software Engineering Workshop 3

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Overview

- Same principles of previous workshops
 - Independent group work
 - Communication-intensive
 - Some degrees of freedom
- Some differences
 - Greater emphasis on implementation and testing
 - More mentoring and technical support
 - Learning a new domain
 - Opportunities for inter-team software integration

Organisation

- LIC + tutors will mentor teams with 5 members (variations possible)
- Industry talks
- Mentoring will take place on-line
- Preliminary timetable will be published this week

Assessment

- D1(10%) Github set up, Project management plan and initial API design (10%)
- D2(20%) API implementation and specification in swagger (10%), API design and test documentation (10%)
- D3(20%) Platform prototype demonstration (20%)
- D4(50%) Final demonstration (30%), Final GitHub repository (5%), Final report (15%)

Assessment method

- Qualitative / comparative method
- Initial marks will be determined according to the quality of the work (A,B,C,D,E)
- Final marks will be determined according to a ranking of the teams within each category
- Multiple markers used for large components

Schedule

- Week 1 (Monday 15 Feb 4-6pm. Online): Introductory lecture. Group Formation.
- Week 1 (Friday 19 Feb 4-6pm. Online): Guest lectures. Finalising Groups.
- Week 2 (Monday 22 Feb 4-6pm. Online): Lectures (TBC)
- Week 2 Friday 26 Feb 4-6pm. Online): Lectures (TBC)
- Week 2: Mentoring (Online).
- Week 3: Mentoring (Online). D1 due.
- Week 4: Mentoring (Online).
- Week 5 (Monday 15 March 4-6pm. Online: Extra lectures TBC.
- Week 5 (Friday 19 March 4-6pm): Extra lectures TBC. API URL due.
- Week 5: Mentoring (Online) D2 API implementation and documentation due.
- Week 6: No Mentoring.
- Week 7: Mentoring (Online).
- Week 8: First presentations D3 (Online)
- Week 9: Mentoring (Online).
- Week 10: Final demonstrations (Online). D4 due.
- Week11: Prize presentations for Optiver (selected teams only)

Project activities

- Project will use data from different sources
 - Public health web sites
 - News
 - Social network data
- Building APIs
 - Each team will choose different data source(s)
 - First version of API expected in Week 5
 - Early delivery/frequent iterations encouraged
- Building a Web application
 - Adapted to needs of users
 - Uses APIs (own and other teams)

Note on specs

- A spec
 - Will be incomplete
 - May contain inconsistencies/errors
 - May need clarifications
- Role of teams
 - Business analysis is an important part of this workshop
 - Study specs and raise issues
 - Use email or ask during mentoring
 - Specs will be regularly updated

Use GitHub to manage your project, documentation and submission

- All teams should use Git to manage their project code base and deliverables (Github or other).
- Make sure your GitHub repo is shared with your mentor and course admin (Git id: chitizadeharmin)
- Other types of repositories can be used in agreement with your mentor
- If needed, read introduction to GitHub: (see WebCMS material, Lecture 1)

Expected Git repository structure

-SENG3011_<TeamName> |----README.md ----PHASE_1 --API_SourceCode --API_Documentation --TestScripts |----PHASE_2 --Application_SourceCode --Application_Documentation ----Reports **|-**Management Information -Design Details -Testing Documentation -Final Report

Actions before 2nd lecture Week 1

- Form and register teams on course WebCMS course site
- There are two forms
 - Specify a team and timetable constraints
 - You are a member in need of a team
- When allocated to a mentor you will get
 - A weekly mentoring slot
 - A spec