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 4-5 members
- Industry talks
- Mentoring will take place during Mondays (10am-1pm)
- Teams should be finalised by end of this Week!

Assessment

- D1(10%) – Github set up, Project management plan and initial API design (10%)

- D2(20%) - API implementation and specification in swagger (15%), API design and test documentation (5%)

- 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 (Tuesday 11-13. Colombo C): Introductory lecture. Group Formation.
- Week 1 (Friday 14-16 Colombo C): Guest lectures. Finalising Groups.
- Week 2: Mentoring (Ainsworth 101).
- Week 3: Mentoring (Ainsworth 101). D1 due.
- Week 4: Mentoring (Ainsworth 101).
- Week 5 (Tuesday 11-13. Colombo C): Extra lectures.
- Week 5 (Friday 14-16 Colombo C): Extra lectures.
- Week 5: Mentoring (Ainsworth 101) D2 API specification URL due.
- Week 6: Mentoring (Ainsworth 101). D2 due.
- Week 7: Mentoring (Ainsworth 101).
- Week 8: D3 (Ainsworth 101).
- Week 9: No mentoring (Easter Monday)
- Week 10: Mentoring (Ainsworth 101).
- Week 11: Mentoring (Ainsworth 101). D4 due.
- Week12?: 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 GitHub and Git to manage their project code base and deliverables.

- Make sure your GitHub repo is shared with your **mentor** and course **admin** (*Git id: madhushib*)

- Read introduction to GitHub:
  https://webcms3.cse.unsw.edu.au/SENG3011/20T1/resources/41295

- Materials to learn Git and Github :
  https://drive.google.com/drive/folders/1IflPeCjdNpS_eWZnppn_d7wLK83OhUo3

- Expected Git repository structure:
  https://webcms3.cse.unsw.edu.au/SENG3011/20T1/resources/41318

Actions before 2nd lecture Week 1

- Form and register teams on course Web site
- Let me know by tonight if
  - You are a team in need of members
  - You are a member in need of a teams
  - If your team has timetable constraints
- Provisional mentoring schedule will be done by end of Week 1
- Choose a spec (2 choices) by 5 p.m. Thursday week 1 using https://www.surveymonkey.com/r/XJSGG7P