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 Wednesdays (9am-12pm)
- Teams should be finalised by end of this Week!
Assessment

• D1(10%) - Initial setup of the GitHub repository (5%), Project management plan and initial API design (5%)
• 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

• Week1: Introductory lectures. Group Formation.
• Week1: More lectures. Finalising Groups.
• Week2: Mentoring.
• Week3: Mentoring. D1 due.
• Week4: Mentoring.
• Week5: Guest lectures.
• Week 5: Mentoring. Part of D2 due.
• Week6: Mentoring. D2 due.
• Week7: Mentoring.
• Week8: First Demos (D3).
• Week9: Mentoring.
• Week10: Final demos. D4 due
• Week11: Prize presentations on 8 May (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

• We are deploying a Github organization account for SENG3011.

• You can create teams and collaborate on it. (Wait for details on course page soon)

• 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/SENG3011/19T1/resources/24484
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) using https://www.surveymonkey.com/r/CVR2NJ3 by Monday week 2