

# 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/1IfIPeCjdNpS\\_eWZnppn\\_d7wLK83OhUo3](https://drive.google.com/drive/folders/1IfIPeCjdNpS_eWZnppn_d7wLK83OhUo3)
- Expected Git repository structure:  
<https://webcms3.cse.unsw.edu.au/SENG3011/19T1/resources/24484>

# Actions before 2<sup>nd</sup> 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