

Software Engineering Group Project

COMP2043.GRP

Session 01:

Introduction

Aims (1)

- Gain Software Engineering experience:
 - engineering requirements
 - system architecture and design
 - user interface design
 - implementing a medium sized, multi-component system
 - systematic testing and debugging
 - programming in a team
 - Software engineering tools, especially version management

Aims (2)

- Gain general group working experience:
 - running meetings
 - making collective decisions
 - time and people management
 - writing reports
 - giving presentations
 - interpersonal skills
 - resolving conflicts (up to a point)

GRP Student Handbook

- Student Handbook 2017–2018
 - everyone expected to read this very carefully!
 - important dates and deadlines
 - electronic copies of lecture slides etc.
 - group division and supervisor assignments
 - initial project descriptions

COMP2043.GRP in a Nutshell (1)

- You have been divided into teams of 5 or 6 students.
- Each team is assigned a supervisor.
- The supervisor provides a short written description (project brief) of the software development project to be undertaken.
- Weekly meetings:
 - formal (with supervisor)
 - informal team meeting (without supervisor).
- Support class sessions (these).

COMP2043.GRP in a Nutshell (2)

- Assessment:
 - Project Site
 - Written reports:
 - Interim Group Reports
 - Final Group Report
 - Individual Report
 - Open Day (“trade fair”)
 - Presentation
 - Peer assessment

2017-2018 Team List

- In Moodle after the October holiday
 - Group
 - Supervisor
 - Project title
 - Project brief

Support Lectures

Our Sessions :

- DB-Ao4, 11:00-11:50, Thursdays:
- We'll have various activities in these sessions, aiming to support your GRP, and monitor your progress
- Please check announcements in Moodle
 - The (tentative) schedule will also be published there after the October holiday
- Be punctual, sit with your team
 - more on that later

Important Dates (TBC!!!)

Task	Date or Deadline
<u>Equipment requests</u>	From 12 October 2017
<u>Group project site up and running</u>	Thursday, 26 October 2017
<u>Interim reports due</u>	Thursday, 14 December 2017
<u>Final reports and software due</u>	Thursday, 19 April 2018
<u>Open Day (TBC)</u>	Wednesday, 2 May 2018
<u>Presentation Day (TBC)</u>	Wednesday, 2 May 2018

Time Line

- September – Early October
 - Split into teams
 - Teams contact supervisors (after October break)
 - Initial team and supervisor meetings
 - Elect team leader (can be changed later)
 - Make a rough time plan
- October:
 - Background research
 - Turn project brief into initial requirements specification; agree with supervisor
 - Initial design and prototyping
 - Team project site up and running
 - **28 October** Group Project Site Active!

Time Line

- November
 - Iterate requirements, design, prototypes
 - Start writing interim report
 - Consolidate prototypes/initiate main
 - Implementation effort
- December
 - Start writing interim report
 - Implementation well under way
 - **14 December**: Interim Group Report due!

Time Line

- January/February/March/April (Chinese New Years holiday here, too):
 - implementation,
 - testing, debugging;
 - system integration;
 - start writing up,
 - finish report.
- **19 April**: final reports and software due
- End April–Early May: fine-tune implementation;
- Prepare Open Day and Presentations.
- **2 May**: (TBC) Open Day
- **2 May**: (TBC) Presentation Day

Team Project Site Active: 26 October 2017

- Each team will have a School-hosted project site
- Initial configuration and demonstration that *all* group members know how to use the site
- Running by **26 October 2017**
- More details will be made available after the October holiday!

Interim Group Report: 14 Dec 2017

- Updated and expanded problem description
- Background: technical background, related work, existing similar solutions.
- Requirements
- Design of system and user interface
- Results of initial implementation efforts
- Fairly detailed time plan. (Develop early, and don't forget to factor in exam revision, other major activities, holidays . . . , **keep updating it!**)

Final Group Report: 19 April 2018

- Updated and expanded version of the interim group report
- Discussion on the design and implementation.
- Summary of what was achieved
- Reflective comments on the success of the project
- Description of testing (appendix)

Software: 19 April 2018

- Submitted electronically only
- Submit everything!
- Make sure software (e.g. libraries) from elsewhere is properly attributed
- Software assessed along a number of dimensions, with evidence including the submitted software itself, testing-appendix in main report, Open Day demonstration, etc.

Individual Report: 19 April 2018

- Summary of personal contribution
- Reflection on the project, the running of it, and own role within it
- Peer assessment:
 - peer-evaluation on dedicated form
 - written justification of evaluation
- **Assessed on report qualities, not on individual contribution!**

Open Day: 2 May 2018 (TBC)

- “Trade fair”: groups show off their finished applications to fellow students, members of staff, other interested people
- Each group sets up a stand:
 - Posters (School pays printing of one large poster)
 - Leaflets
 - Live demo
- The overall quality and professionalism of the stands and the people manning them is assessed

Open Day: 2 May 2018 (TBC)

- Some photos of 2015 group project open day



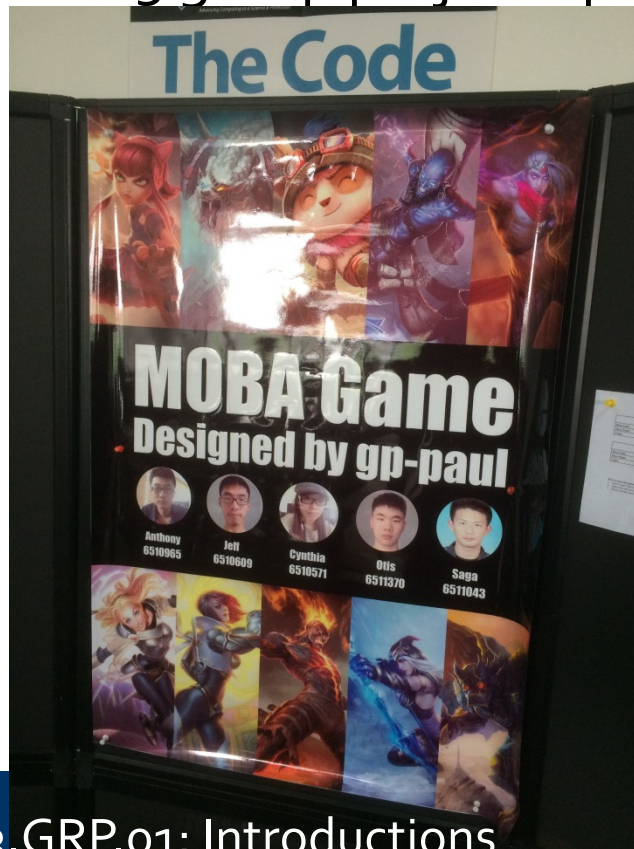
COMP2043.GRP.01: Introductions

2017.09.28

Slide: 19

Open Day: 2 May 2018 (TBC)

- Some photos of 2015 group project open day



Open Day: 2 May 2018 (TBC)

- Some photos of 2015 group project open day



COMP2043.GRP.01: Introductions

Open Day: 2 May 2018 (TBC)

- Some photos of 2015 group project open day



COMP2043.GRP.01: Introductions

2017.09.28

Slide: 22

Open Day: 2 May 2018 (TBC)

- Some photos of UK campus group project open day



Open Day: 2 May 2018 (TBC)

- Some photos of UK campus group project open day



Presentation Day: 2 May 2018 (TBC)

- 10 minute presentation covering
 - - description of the problem solved
 - - overview of the developed application
 - - reflective remarks on the success of the project
- 5 minutes for questions
- Attended by staff and students
- It is the quality of the presentation itself and how questions are answered that are assessed

Presentation Day: 2 May 2018 (TBC)



Group Project Prizes

- There are going to be Prizes!
 - Best Group Project
 - Best Open Day Stall
 - ...

2017-2018 Teams -- Supervisors

**The supervisor and project details
will be made available in Moodle
after the October holiday**

**... but I'm happy to tell you your
team member information now ...**

