

Software Engineering Group Project

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Software Engineering Group Project

- ▶ Welcome to CS2013 & CS3013, your software engineering group project for 2018.
- ▶ Students taking CS2013 & CS3013 **will be working together on real world projects**
- ▶ Working together means that your group will draw members from each module
- ▶ Real world means that we try to source projects that are not “playpen” exercises.
 - ▶ The ‘clients’ generally care about and wish to make use of the results.

Aims

► For CS2013 students:

- You will experience software development as part of a team
- Your knowledge and experience of software engineering practice will expand
- You will built and deliver a large and complex software project
- You will learn how to communicate about your systems and document their development

► For CS3013 students:

- Your project management and planning skills will expand
- You will experience software design and architecture on a larger scale
- You will learn to manage complex software engineering tasks.

Why?

- ▶ To bridge the gap between College practice and Real World practice
- ▶ To provide you with an authentic client experience
- ▶ Messy, real world issues, conflicting requirements
- ▶ To provide you with an authentic team experience
- ▶ To equip you with the knowledge, skills and practice of real world commercial software development

Expectations

2nd Years

- ▶ Engage
- ▶ Communicate
- ▶ Seek advice
- ▶ Learn
- ▶ Do most of the coding
- ▶ Contribute to the project planning
- ▶ PARTICIPATE

3rd Years

- ▶ Engage
- ▶ Communicate
- ▶ Mentor
- ▶ Teach
- ▶ Do most of the project planning
- ▶ Contribute to the coding
- ▶ PARTICIPATE

Expectations for EVERYONE

- ▶ Everyone
- ▶ Meet weekly
 - ▶ keep minutes (with attendance, apologies, actions, etc)
 - ▶ Use Blackboard to record minutes and other communication
- ▶ Play your part: Do the work you are meant to and ‘pull your weight’
- ▶ Ensure the work is done and delivered on time
- ▶ Communicate to resolve any potential issues
- ▶ Seek the advice and support of the client, demonstrators and lecturers

CS2013 - CS3013 Timetable				
Week	Date	Module	1-2pm	2-3pm
1	16/1/2018	Groups 1-18	Microsoft Talk (Venue: LB01)	Module Introduction (Venue: M20)
		Groups 19-36	Module Introduction (Venue: M20)	Microsoft Talk (Venue: LB01)
2	23/1/2018	CS2013	Requirements (Venue: LB01)	Groups' meetings
		CS3013	Project Management (Venue: M20)	
3	30/1/2018	CS2013	Software Design (Venue: LB01)	Groups' meetings
		CS3013	Team Management (Venue: M20)	
4	6/2/2018	Groups to present TBC	Requirements Presentations (Venue: LB01)	Requirements Presentations (Venue: LB01)
		Other groups	Groups' meetings	Groups' meetings
5	13/2/2018	Groups to present TBC	Requirements Presentations (Venue: LB01)	Requirements Presentations (Venue: LB01)
		Other groups	Groups' meetings	Groups' meetings
6	20/2/2018	Groups to meet TBC	Groups' Meeting with lecturers (Venue: TBC)	Groups' Meeting with lecturers (Venue: TBC)
		Other groups	Groups' meetings	Groups' meetings
7	27/2/2018	READING WEEK		
8	6/3/2018	Groups to meet TBC	Groups' Meeting with lecturers (Venue: TBC)	Groups' Meeting with lecturers (Venue: TBC)
		Other groups	Groups' meetings	Groups' meetings
9	13/3/2018	CS2013	Software Testings	Groups' meetings
		CS3013	Communication & Project Meetings	Groups' meetings
10	20/3/2018	Groups to present TBC	Final Presentations (Venue: LB01)	Final Presentations (Venue: LB01)
		Other groups	Groups' meetings	Groups' meetings
11	27/3/2018	Groups to present TBC	Final Presentations (Venue: LB01)	Final Presentations (Venue: LB01)
		Other groups	Groups' meetings	Groups' meetings
12	3/4/2018	All groups	Groups' meetings	Groups' meetings
		All groups	Groups' meetings	Groups' meetings

Attendance and participation

- ▶ Attendance to lectures and to the group meetings is compulsory and will be recorded. Any students with a total of three or more tutor unexcused absences to lectures or group meetings, will receive a zero grade for the next submission.

This week – formulating groups

▶ Effective teams have:

- ▶ A common sense of purpose
- ▶ Open communication (listening and respect for differences of opinion)
- ▶ Concern with the operation of the team
- ▶ A focus on problem solving rather than competition
- ▶ A sense of trust
- ▶ An awareness of the strengths and resources of each member

Effective Teamwork

- ▶ Meet and Greet
- ▶ Make sure you take the time to say hello before getting down to business
 - ▶ The environment matters
- ▶ Meet where you have enough space to all sit easily
- ▶ Let everyone talk
- ▶ Encourage people Listen

Effective Teamwork

- ▶ Praise people
 - ▶ Self esteem is important
- ▶ Record agreements and actions
 - ▶ And distribute afterwards
- ▶ Be accountable
 - ▶ For you actions and responsibilities
- ▶ Be open, honest, and tolerant
- ▶ And try and have fun

Effective Teamwork

- ▶ Solve problems & make decisions

“Stay committed to your decisions, but stay flexible in your approach.” Tom Robbins

- ▶ Commitment can be more important than consensus

Activities this week

- ▶ Determine your group strengths, weaknesses, and interests
- ▶ Brainstorm a start-up project
 - ▶ Get together with another group and pitch your ideas to each other (< 5 minutes)
 - ▶ Critique – be eloquent and simple, not complicated, repetitive, alienating
 - ▶ Submit your revised idea (1 page) by Friday
- ▶ Later this week: you will provide your selection of 5 preferred projects.

CS2013 – CS3013 Assignments' Calendar			
Week	Deliverable	Submission Date	Method of submission
1	Own project pitch	19/1/2018	Blackboard
2	Project choice	19/01/2018	Blackboard
4	Requirements' presentation (groups presenting week 4)	5/2/2018	Blackboard
	Signed off requirements' document	9/2/2018	Blackboard
5	Requirements' presentation (groups presenting week 5)	12/2/2018	Blackboard
	Project plan	16/02/2018	Blackboard
6	Software design specification document	23/2/2018	Blackboard
11	Final presentation (groups presenting week 11)	26/3/2018	Blackboard
12	Final presentation (groups presenting week 12)	2/4/2018	Blackboard
	Project code bundle	6/4/2018	Blackboard
	Development plan	6/4/2018	Blackboard Print copy reception SCSS
	Management report	6/4/2018	Blackboard Print copy reception SCSS
	Individual reflective essay	6/4/2018	Blackboard Print copy reception SCSS
13	Client handover proof	6/4/2018	Blackboard