University of Dublin
Trinity College

# CS7CS3 – Main Project Introduction

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# Module Assessment: 100% Coursework Semester 1

| Assessment Component | Brief Description | % of total | Week set (*) | Week due (*) |
|---|---|---|---|---|
| **Send me group suggestions** | Form your own groups where that is your preference. For students for whom that is not their preference, I will assign you to groups | | 3 | 7 |
| **Group Project requirements specification** | Analyse and document the requirements for the group project | 10% for group | 10 | 14 (on 2nd December) |
| **Group project architecture** | Application of an appropriate architectural model in the team-based application assigned. | 10% for group | 10 | 14 (on 2nd December) |
| **"Thin slice" implementation** | Implementation of a thin slice of project functionality across ALL architectural components | 10% for group | 14 | 23 (on 3rd February) |

Note (*) I am using the week numbers from College's academic year structure – see

https://www.tcd.ie/calendar/academic-year-structure/academic-year-structure.pdf



**Note: details subject to change (e.g., deadlines, deliverable content) throughout the year. Any change will be communicated to the class.**

# Module Assessment: 100% Coursework Semester 2

| Assessment Component | Brief Description | % of total | Week set (*) | Week due (*) |
|---|---|---|---|---|
| **"Thin slice" implementation (started in semester 1)** | Implementation of a thin slice of project functionality across ALL architectural components | 10% for group | 14 | 23 (on 3rd February) |
| **Group development project** | Evaluation is based on the end-of-year project documentation, a demonstration to the course lecturer and, where relevant, other stakeholders (or video), an oral examination within teams (if possible), and peer assessment. 40% of the marks are group-wide, and 40% is individual. Criteria for evaluation are:<br><br>1. Application of agile process to group project<br>2. Application of appropriate systems' algorithms in group project;<br>3. Code quality within group project code-base;<br><br>Note, the default is that the individual mark will equal the group mark. This may change based on an individualised assessment, against the three evaluation criteria, which will be based on team-members' peer reviews, combined with lecturer/TA observation throughout the semester, and Q&A on software engineering theory. | 35% for group;<br><br>35% for individual (**) | 10 | 33 (on FRIDAY 14th April) |

Note (*) I am using the week numbers from College's academic year structure – see

https://www.tcd.ie/calendar/academic-year-structure/academic-year-structure.pdf

Note (**) Any student who fails the individual component ( <17 out of 35 ), will have been deemed to have failed the module.



**Note: details subject to change (e.g., deadlines, deliverable content) throughout the year. Any change will be communicated to the class.**

# Phase 1 Deadline, Semester 1

**Deadline: 3rd December. All reports should be submitted on Blackboard**

1. Detailed requirements specification (**see template**)

2. Detailed Project Development Plan
   - detailed iteration plan using eXtreme Programming approach
   - plan for pair programming

3. Specification of coding standards to be used

4. Functional architecture (**see template**)
   Technical architecture (**see template**)

# Phase 2 Deadline, Semester 2

**Deadline: 4th February. Thin Slice Implementation**

- You are required to implement a thin slice of project functionality (your choice) across ALL architectural components. You will be asked to verify that all components of your functional and technical architecture are verified. The slice of functionality you choose should be sufficient to require some code in each functional component, and integration of ALL technical architecture components.

- Please be prepared to demonstrate the thin slide to me or the demonstrators, at any stage in the week starting 7th February.

# Phase 3 Deadline, Semester 2

## Deadline: 14th April. To be submitted on Blackboard

Technical deliverables, a group report and individual peer reviews. In addition, please submit a video of your final presentation, and the PowerPoint file. Please also video a demonstration of the system.

## Technical Deliverables:

- Technical Architecture Description **(updated from Semester 1)**
- Functional Architecture Description **(updated from Semester 1)**
- Detailed System Structure Models
- Detailed System Behavioural Models (i.e., for non-trivial behaviour)
- Project Diary (include approach of project, way you divided labour, time estimates, actual time spent, and impact of/response to inaccurate estimates)
- Project Code including compile and deployment instructions
- Demo presentation (both a video of it being presented, and the PowerPoint)
- Video of a demonstration of the system executing

## Group Report:

- Please work on a report together (it is an experience analysis). **(see template)**

## Individual Report:

- Please write an individual self-assessment and peer review **(see template)**. I strongly ask you to keep this individual report confidential from your group members.

# Teams and Projects

On Blackboard