

# INFS3202/INFS7202 Group Proposal Specification 2018

The University of Queensland  
School of Information Technology and Electrical Engineering

*Version: 1.1*

**Due: 11th March 2018, 23:59**

## 1 Overview and Objectives

The goal of this assignment is for you or your group to propose a web information system that you will be implementing for the project. You may complete the proposal and project individually or in a group consisting of up to three students (including yourself).

## 2 Project

The proposal is an opportunity for you to receive feedback prior to commencing the project. There are a few considerations you must make when designing your project:

- Your project must be deployable to a public cloud (managed service).
- Your project must support user accounts.
- Your project must have a desktop web information system OR a mobile application.
- The client must have sophisticated user interaction. Can be achieved with a combination of 3rd party widgets and functionality developed by you. The functionality you may develop
  - For desktop web information systems: User interaction with JavaScript user interface elements, not just text hyperlinks.
  - For mobile applications: Intuitive touch gestures.
- The server must support some CRUD (i.e., create, read, update, and delete) operations for some data beyond user accounts.
- The server must have sophisticated functionality (beyond one single usage).
  - This could be for example: calculations, file manipulation, third-party API integration, integrations with other services, sending emails, RSS feeds and web sockets.
  - For file manipulation: this could be generating invoice in a commerce style WIS.
  - Complex functionality is regarded as functionality beyond CRUD operations and code used to communicate between hierarchies (both client-server and server-database).
- There must be a database management system.

These considerations must be met to be eligible for achieving full marks for the project. Meeting these considerations is not a guarantee that you will obtain full marks.

### 3 Submission

- Due: 11th March 2018 23:59 (End of Week 3).
- You must make an online submission to Turnitin.
  - You must submit a copy of your proposal (in the form of a PDF).
- One submission per group.
- Your proposal should be no more than 1500 words.
  - If your proposal exceeds 1500 words, we may stop reading.
  - Headings and captions are excluded from the word count.
- Show your proposal to your tutor during your practical sessions in week 4 for feedback.
  - You are not required to prepare a presentation.
  - Your tutor will ask you some questions regarding your proposal for assessment.
- The project you finish at the end of the semester does not necessarily have to reflect your proposal.

### 4 Proposal (5 marks)

#### 4.1 Describe the Project (1 mark)

Describe the purpose and audience of your web information system. This can be achieved in a one sentence problem statement if you wish. You may go into further detail but be wary of the word count.

#### 4.2 Describe Use Cases (1 mark)

Give a description on your web information systems important use cases. You should describe the user's:

- Intent on what they would like to achieve with the system.
- Interactions they make with the system, for example:
  - Filling forms.
  - Querying for information.
  - Going through wizards.

#### 4.3 Describe the Communication Topology of the System (1 mark)

Describe the communication topology that will take place within the system. You should visualize with diagrams or describe what communication takes place between each hierarchy of the 3-tier architecture. You must describe the communication topology of at least 3 use cases. You must include what information is sent and which direction between the 3-tier architecture hierarchies. You do not need to show how communication is technically achieved between hierarchies.

#### **4.4 Design Mock-up (1 mark)**

Create a mock-up for one view of the system. This mock-up can be for a web page on a desktop web browser or as a native smartphone application. Do not create a mock-up for a web page on a mobile browser.

#### **4.5 Report Style (1 mark)**

The report should be of neat and legible presentation with appropriate headings. Sentences should be understandable and coherent. Bullet points are acceptable where appropriate. All reports must have a title page containing information about:

- Working title (name) of the web application. (Does not have to be final.)
- All student/s names
- All student/s numbers
  - (Full 8 digits, s1234567 is not acceptable).

### **5 Help**

#### **5.1 Can I do the proposal and project by myself?**

Yes you can.

#### **5.2 Will my idea be suitable for the project?**

First, give a one sentence statement of your web information system. Your one sentence statement should not entirely describe what your system is capable of. Example: UQ Blackboard is a web information system for students and course coordinators to access and publish course materials. If you are struggling to describe your web information system in one sentence, consider re-thinking your idea, it will be too big for this course. You should also identify at least 3 use cases. If you cant, then your web information system is probably too small.

#### **5.3 What level of quality is expected from my Mock-ups?**

Any tool is acceptable, as long as elements can be clearly identified. This includes drawing on paper.

#### **5.4 What is the 3-tier architecture?**

Please refer to the week 1 lecture.

### **6 Updates**

#### **6.1 1.0 to 1.1**

Updates to confusing wording.

- Removed confusing clause about mobile and desktop clients.
- Clarified complex server functionality.
- Added more suggestions about complex server functionality.

- Clarified sophisticated user interaction.
- Clarifications to title page requirements.
- Added 3-tier architecture help.