

### 3.1 Requirements Walkthrough

The first review assesses the general learning outcomes **LO1**, **LO2**, and **LO3** as well as **LO4**, as described in Section 1. The review focuses on the *requirement specification*. The purpose of this component is to ensure that an appropriate and feasible system is planned for implementation by the team for the module, and that the team is working following a reasonably well-defined plan. Part of the feedback returned to each team is a document describing the project specification approved by the teaching team. This specification will describe the system that the team will work on for the rest of their project. The quality of the team work from then on will be measured with respect to this approved project.

Each team will be required to submit a specification document, signed by all members of the team, by the end of Week 3. In the academic year 2019/20 the submission deadline is 12 noon on February 14th, 2020.

**Report.** The report should be a single PDF file (any other format will receive a ZERO mark) no more than 5 pages long (including the bibliography) and it should be structured as follows:

#### 1. Project Description

This section describes what the project is about. This could include:

- Who the project is being done for (if indeed such character exists!): this could be a (group of) friend(s), a customer, ... or no-one at all (if nobody actual commissioned the work);
- A mission statement for the application (what the aim of the project is, what it is intended to achieve);
- A description of the project detailed objectives. A detailed description of the features / functionalities of the software should be given (distinguishing essential and desirable features).

A clear system boundary diagram should be drawn, drafting the scope of the sought system. A description of the different user views, and their functional requirements should be included. For database applications it is also appropriate to include details of the transaction requirements. Any constraint on the sw/hw should also be specified here.

#### 2. Conduct of the Project and Plan

This section describes how the project will be carried out and describes the activities involved in different stages. This should include, where appropriate:

- Preparation  
Background research: what information will be used to fully understand the problem and derive its solution, and provide a context for the project (you should state clearly what information you have already absorbed and what is yet to be read during the early stage of the design stage);

Data required: what data will be need to be acquired for the project and where it will be obtained;

- Design stage

What design methods will be used and what the design documentation will consist of;

- Implementation stage

What hardware and software will be used;

What testing will be carried out;

In addition, a plan in the form of a time-tabled schedule of project activities and outputs will be given. This should include internal milestones as well as external assessments and reviews. The plan should both state progress to date and indicate future activities. A diagrammatic presentation of the plan is usually best, and there are standard techniques, such as Gantt Charts, which you can use.

The stages of the project should be broken down into an appropriate level of detail, e.g., "design 5 weeks" is too vague: you need to indicate what tasks will go into your design and how long you expect each of these tasks to take.

Also included should be a risk assessment containing the following and how they might affect the plan.

- What are the major challenges in carrying out the project;
- What new skills will be required and how these will be acquired;

### 3. Bibliography

An outline bibliography showing what reference material has been and will be used. These references should be cited wherever appropriate.

The lecture notes provide additional details on bibliographies and referencing.

Examples of the relevant documentation related to the "StayHome" case study are in Connolly and Begg [1].

**Assessment.** The specification documents will be assessed by the teaching team and a short description a final proposal based on the submitted document will be returned along with the assessment feedback to each team within a week of submission. Written feedback will normally be returned through the electronic portal as a file left in each team file space. A blank copy of the feedback form can be found in the folder "Forms" in the electronic portal (see Section 4).

**Marking Scheme.** The requirement review contributes a maximum of 12% to the team mark. Failure to sign the document will result in a zero mark for the person/people that did NOT sign. Failure to submit a PDF file will result in a zero mark for the whole team