

# **CE903/913 System Requirements Specification and Project Plan: A Sample Outline**

## **1. Introduction**

Explain what this document is for and what software development or project management methodology is adopted.

Describe what the project is about. Cite references appropriately.

Summarise the contents in the remaining sections of the document.

## **2. Requirements Analysis and Specification**

Describe the methods adopted for requirements elicitation, analysis, and specification. Explain how to ensure the requirements elicited are clear, complete, consistent and realistic. Cite references properly, including lecture notes. (**This is more important if Agile methodology is adopted. Explain how requirements specification will be conducted and product backlog will be updated iteratively.**)

Present a system architecture and explain it.

Present appropriate system models to describe the system requirements from different perspectives, if necessary.

Present an enumerated list of functional requirements. (**This could be a product backlog for Agile approach. It may be incomplete at this stage in Agile software development, but at least a few key requirements should be elicited and specified.**)

Present an enumerated list of non-functional requirements.

Specify important requirements in detail using tables or other appropriate methods.

(It may be necessary to divide this section into several subsections.)

## **3. Testing Schedule**

Describe and justify the methods to be adopted for testing. If appropriate, explain how acceptance test will be conducted. Cite references appropriately.

Present test cases, e.g., input and expected output pairs for testing a specific functional requirement, and scenarios for performance testing. (**If Agile methodology is adopted, it is fine to present test cases for a few important functional requirements to be implemented in the 1<sup>st</sup> couple of sprints.**)

Present time schedule for testing at various stages, e.g., unit testing, system testing, or **testing in each sprint in Agile software development, in line with the project plan.**

## **4. Project Planning**

Describe project management structure and methodology (e.g., agile organisation).

Describe tools used for project management and planning.

Present project plan, including a Gantt chart, using planning tools.

**Report progress of the initial ‘iterations’ or ‘sprints’ in your Agile software development if applicable (e.g., setup of the platform and initial testing of software tools to be adopted)**

## **References**

**NB: This is just a suggestion. It may not fit within all the projects. You may change the structure according to the specific requirements of your project.**