

Comp7855 course project is to be done individually and is worth 25 marks (including the presentation). Each student is expected to produce the work specified below. If the project you end up working on is based on your capstone project, which may be a group project, I will allow one submission (if it helps with readability) but with a clear indication that each team member produced the minimum work specified below.

Milestone 1: Submission into D2L - Due by March 25 th . (a) [6 marks] At least three distinct User Stories with their corresponding Acceptance Criterion; or (as an alternative format) three distinct functional specifications written as IEEE 830 standard based “shall” statements and corresponding Test Cases; Or (if either the application already exists or the end-user functionality is being implemented by other team members and you are tasked to ensure non-functional requirements or design constraints then), specifications of at least three design constraints (also referred to as non- functional requirements e.g. performance, security, reliability, maintainability, security and usability etc), clearly identifying the metrics you will use to quantify these non-functional requirements and a description of the test bed you will use to measure the conformance); Or a combination (e.g. two functional and one non-functional requirements etc) Note 1: Just to clarify, if two students are working on a common project, I expect a total of six specifications and the associated verification/validation criteria. Note 2: I don’t expect more than one page per specification and the associated verification/validation criteria.

- (b) [1 mark] UI Design i.e. screen mockups or screen shots of actual GUI; or specifications of software/communication/hardware interfaces.
- (c) [1 mark] Assuming that the work is split into two sprints each lasting two weeks, backlog for the two sprints containing list of tasks that will produce the desired functionality, their priority (i.e. will they be undertaken in Sprint I or Sprint II). [1 mark]

Milestone II: Submission into D2L - Due April 3rd (a) UML Architecture Diagram, (UML) Package/Component/Deployment, Class, State Chart (or Sequence Diagram) for your product or the functionality you are responsible for. [2 marks] (b) Screen dump of a Jenkins run confirming that you incorporated continuous integration of your p:spode from its github repository. Please note that your product on client as well as server side should be partitioned into at least three modules/packages/libraries etc. [2 marks] (c) Screen dump of static code analysis performed by tools such as lint on Android. [2 marks] Milestone III: Weeks of April 2 nd and 12 th

- (a) [2 marks] Presentations of topics assigned to you.
- (b) Demonstration of Verification/Validation of functional and/or non-functional requirements (i.e. Acceptance Tests or results of test beds etc). [3 marks].
- (c) Test Automation via Espresso or utilization of QA tools for benchmarking non-functional requirements. Submission of code, espresso tests / QA test

results into D2L. [6 marks]