



COMS3002: Software Engineering III

Marking Rubric Guidelines: Issues Expected to be Addressed

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1 Introduction

Laboratory Exercise-03 is also the **Start** of your Project Modules' Designs, Implementations, Testing and Final Report Writing.

1.1 Outcome

The series of laboratory sessions, moving forward, are to develop and implement some aspect, call this a first prototype, of your respective group projects. We do not expect a completed working project. The prototype should be sufficient mainly to demonstrate:

- i. How you would utilise the software engineering paradigms learnt in class to design and implement a full system.
- ii. How the system is invoked or started;
- iii. For the *front-end design/implementation*, the respective views accessible by the different users (i.e., users with different roles);
- iv. For the *back-end design/implementation*, the techniques for configuring the back-end (e.g., starting an Apache or NginX server say, starting particular types of database management systems, how queries are executed, from the click of a button, accepting text input, and executing it at the back-end.

1.2 Work Schedule

The main activities here involve,

- Writing and documenting some class modules. Select some key modules that can illustrate/demonstrate some aspect of the project.
- With or without Off-the-Shelf supporting software modules, implementing some aspects of the project. Note that each project is different and may require different COTS/OTS or supporting software.
- Conduct simple tests, e.g., Unit Tests and NOT formal SE testing procedure, to check that the various modules you've implemented, do not contain bugs;
- Add comments on the implementation code for readability and comprehension of a Not-Too-Savvy programmer.

1.3 The Deliverable

- A simple prototype of your project that illustrates some functional aspect of it. Please take note that this need not be a full working system.
- Submit the necessary information required for the evaluator to check your work from your repository on GitHub.
- A slightly expanded description of your project, any special features that have been added to the front-end and back-end modules.
- Describe briefly the responsibilities of each pair of students in your group.
- A short description of how to compile your code and invoke/start any modules
- Note that all the documentation and source codes should be hosted on your GitHub. The new documentation should include all special software programs that need to be installed on the evaluator's system in order to test the modules in your simple prototype.
- Your project report.

2 Project Report

2.1 General Overview

The final project report submission follows from the group project laboratory exercises. Each project should have a team of no more than 4 members. A slightly more enhanced description of each project is in the project description document available on SAKAI. You should also extend this to include those features of the expanded project you captured from the requirement analyses. The final project report submission describes the assembly of essential documentations on:

- i. Problem statement/definition [10 pts],
- ii. Your project's software requirement specification [10 pts],
- iii. Your project's design and architecture document [20],
- iv. Your sprint planning document, or other SDLC approach you chose, if not SCRUM. [15 pts],
- v. Your description & demonstration of some relevant modules [25 pts]
- vi. Your sprint retrospective and if not SCRUM, your system development review method [10 pts],
- vii. Documentation style, grammar & spelling [10 pts].

Please note that a complete system implementation of each project is **NOT a requirement**. However, bonus marks may be earned according to how much depth your implementation contains. Each group's project is different and may or may not have supporting modules and frameworks.

2.2 Content of the Report

The project report/document contents should be put together by all four members in the group but also split into two parts; Part I - written by the pair responsible for the front-end and Part II written by the pair responsible for the back-end. All 4 members will get the same marks so please share the responsibility checking how the entire system fits together. The report should have a front cover showing the *team members* and the:

Title: The title of the project

Front-End Pair: Names and Student Number

Back-End Pair:

2.3 For the Introduction

Discuss:

- Overview of the project,
- Problem statement,
- Project objectives:
- Stakeholders:
 - Users,
 - Developers,
 - Project management,
 - etc.

2.4 Others

The sections in other parts of the document should address issues such as:

- Requirement specification,
- Design and Architecture documentation,
- Implementation modules - prototypes only
- Sprint planning document,
- Sprint retrospective.
- etc.