Object Orientated Analysis and Design (OOAD)
Practical Demonstration Sheet [Group Project]

Student Name: _____ Student No: _____

Team Name: _____ GitHub Repository: _____

Date: _____ GitHub Username: _____

The final submission is unique to the individual student and should be customize based on their contribution to the group project – e.g., clear what the involvement, contribution to the design, specification and how they influenced the technical requirements. This demonstration sheet gives the student a list of essential features they must demonstrate in the final submission. The online digital submission should be a single .zip, including the formal report (*.pdf) and any resources.

0 – no feature
1 – attempt (not fully working)
2 – working (basic but needs work)
3 – outstanding (excellent example that is faultless)

☐Short Report [15]
- ☐Formatting (pdf, IEEE format)
- ☐Sections/Content/Writing Style
- ☐Figures/Captions
  (captions/referenced in text/explained)
- ☐Tables/Code Snippets
- ☐References (6+ reputable references)

Note: The report should be a professional document that details various concepts/techniques while explaining the mechanics/principles in relation to the implementation (e.g., design, tags, interesting/novel features and limitations).

☐GitHub [3] [Each Individual]
- 3+ weeks history/evidence

☐Management [15]
- ☐Gantt Chart (Team/Task Management)
- ☐Work Breakdown Structure
  (Each teams activities/tasks - evidenced by Github)
- ☐Risk Assessment
- ☐Skillset (Team/Resources)
- ☐Software Development Lifecycle

☐UML Diagrams [24]
- ☐Class Diagram
- ☐Use-Case Diagrams
  (explain functionalities)
- ☐Activity Diagram
- ☐Collaboration Diagram
- ☐Sequence Diagrams
- ☐Component Diagram
- ☐Deployment Diagram
- ☐State Chart Diagram

☐Project [18]
- ☐Develop Problem Statement
- ☐System analysis
  (study, understand, and define requirements for the system)
- ☐Model of the system's functional requirements)
- ☐Requirements
- ☐Functionality of System
- ☐Design to code
  (based upon the UML Diagrams)

☐Presentation [6] [Group]
- ☐Explain project as part of a team
- ☐Answer questions

☐Other (Innovative Features) [6]
- ☐……
- ☐……

TOTAL / 87

Other Comments

Overview

- Use object oriented analysis and design techniques for the given scenario
- Carry out problem identification and analysis and design development
- Apply the principles of effective information management, information organisation, and information retrieval skills for different kinds of information
- Discuss the modelling and design of the software system in a way that demonstrates a comprehension of the trade-off involved in design choices
- Deploy an appropriate theory, practices and tools for the specification, design, implementation, and evaluation of software system
- Use a range of established techniques to initiate and undertake critical analysis of information, and to propose solutions to problems arising from that analysis

The final report should be of the highest professional quality - individually composed (i.e., written in each individual's own words). The report should be supported by evidence (e.g., references, 6+ 'reputable' sources, cited explicitly in the body of the text, version control, work-breakdown structure and so forth). Images and diagrams should be included in the document with explanations and captions. The diagrams (e.g., UML diagrams) will be referenced in the body of the text. Importantly, make it clear on any assumptions about the design, such as, trade-offs that contributed towards for the solution (also reference these in the UML diagrams).