**CPT202 Assignment 2**

**Group Report for Software Engineering Group Project**

2024/2025 Semester 2

<Project Title>

*<Date>*

*<URL>*

Group number: <\*\*\*>

Submitted by: <member name, member ID>

Group Members:

1. <member 1, member ID>
2. <member 2, member ID>
3. <member 3, member ID>
4. < member 4, member ID >

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# Introduction (Suggest 1.5 pages)

## Background and Requirements

## Aims of The Project

## User Characteristics

## Assumptions and Dependencies

## Project Scope

## Project Risks

# Architectural Design (Suggest 3.5 pages)

*Describe the requirements that have impacts on your architectural design.*

## System Architecture

*The overall architecture of the system. Description and justification for the selected architecture.*

*Use a diagram to illustrate your architecture.*

*Optionally, you may include a message queue and caching server in your design.*

## Frontend System

*A comprehensive overview of your frontend system, comprising a range of components including but not limited to selected technologies, along with the justification for their selection.*

## Backend System

*A comprehensive overview of your backend system, comprising a range of components including but not limited to selected technologies, along with the justification for their selection.*

## High-level Database Design

*Include an ERD with a description to show your overall database design.*

*Provide an explanation for your database design if the intention is not obvious.*

# Software Design (Suggest 4 pages)

## Software Modules

*How is your software being modularized? Any alternate solution? Provide justification.*

## High-level Process Flow

*The overview of the essential functionalities for your software. UML diagrams and the description for your essential functionalities at high-level views.*

## Software Support Services

*Describe the support services you have for your system, such as database-related services, security-related services, message queue-related services, webpage navigation-related services, etc.*

## Coding Structure and Convention

*Explain the standard structures you used for the project. The structure should be logical, easy to understand, and efficient. Explain the coding convention you use throughout the project. The coding convention should be used by all team members, it should be easy to understand and easy to follow.*

## Software Configuration and Production Environment

*Software configuration, Server configuration.*

*If you use containerization in your deployment, you must also explain them.*

# Software testing (Suggest 2 pages)

*Include unit testing, integration testing, and acceptance testing.*

*For each type of testing, describe the test process.*

*Show the test data and test results. Sufficient test data and test result is expected.*

# Conclusion and future work (Suggest 1 page)

*What your group has done for the project?*

*What achievement your group has achieved until now?*

*What are the problems in your project until now.*

*What work your group will do in the future?*

# References (If needed, do not count into the limit of 10 pages)

# Appendix (Not count into the limit of 10 pages)

*UML diagrams*

*Sprint backlogs*

*Member contributions form*