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**Design Document**

**for**

**<ProjectName>**

Version<X.X>

Prepared by Team <X>:

(Based on SRS Version <X.X> prepared by Team <X>)

| **<team lead’s name>** | **<Roll #>** | **<nitc mailid>** |
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## 

| **Project Manager:** | **<Place your Manager’s name here>** |
| --- | --- |
| **Project Client:** | **<Place your Client’s name here>** |
| **Course:** | **CS6103E - Software Systems lab** |
| **Date:** | **<Place the date of submission here>** |

# Glossary

*<Define all the terms necessary to properly interpret the design document, including acronyms and abbreviations in the following table>*

| <Term1> | <Definition1> |
| --- | --- |
| <Term2> | <Definition2> |
| <Term3> | <Definition3> |

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# Detailed Design through UML diagrams

## 1.1 System model using Class Diagram

Class Diagram in the Unified Modelling Language is a type of static structure diagram that describes the structure of a system by showing the system’s classes, their attributes, operations (or methods) and the relationships among classes.

### 

*<Insert diagram here>*

## 1.2 Responsibilities - Usecase Diagram

Use case diagram graphically depicts the user's possible interactions with the system. It shows the different types of users (actors) and the use cases that the actors perform when they are using the system to solve the customer’s problem. The actor is shown as a stick person and the use case is shown as an ellipse. Lines indicate which actors perform which use cases.

*<Insert diagram here>*

## 1.3 System Interactions through Sequence Diagrams

Sequence diagrams are interaction diagrams that show the sequence of messages exchanged by the set of objects performing a certain task. A sequence diagram shows, as parallel vertical lines (lifeline), different processes or objects that live simultaneously, and as horizontal arrows, the messages exchanged between them, in the order in which they occur.

### 1.3.1 <Name of Sequence Diagram 1>

*<Short description about sequence diagram 1>*

*<Insert diagram here>*

### 1.3.2 <Name of Sequence Diagram 2>

*<Short description about sequence diagram 2>*

*<Insert diagram here>*

### 1.3.3 <Name of Sequence Diagram 3>

*<Short description about sequence diagram 3>*

*<Insert diagram here>*

### 1.3.4 <Name of Sequence Diagram 4>

*<Short description about sequence diagram 4>*

*<Insert diagram here>*

## 1.4 Control and Data Flows through Activity Diagrams

Activity diagrams graphically represent step-wise activities and actions involved in the workflow within a specific scenario, and helps to understand the flow of work that an object or component performs. Activity diagram uses rounded rectangles to represent a specific system function, arrows to represent flow through the system, decision diamonds to depict a branching decision, and solid horizontal lines to indicate that parallel activities are occurring.

### 1.4.1 <Name of Activity Diagram 1>

*<Short description about activity diagram 1>*

*<Insert diagram here>*

### 1.4.2 <Name of Activity Diagram 2>

*<Short description about activity diagram 2>*

*<Insert diagram here>*

### 1.4.3 <Name of Activity Diagram 3>

*<Short description about activity diagram 3>*

*<Insert diagram here>*

# Database Design

## 2.1 ER Diagram

ER (Entity-Relationship) model is designed to represent the things that a system needs to remember in order to perform the system functionalities. It graphically represents the data model that defines the information structure which should be implemented in the database. The data objects (entity) are represented by a labelled rectangle and the relationships are indicated with a labelled line connecting objects.

*<Insert diagram here>*

# Implementation Plans

## 3.1 Technology Stack

*<Describe the software platforms, programming languages, frameworks etc. utilized for implementing the project.>*

## 3.2 Work Estimates

| **Description** | **Time Estimate**  **(Hours)** | **Team Members Involved** | **Date of Completion** |
| --- | --- | --- | --- |
| <Task1> | <Hours> |  | <date 1> |
| <Task2> | <Hours> |  | <date 2> |

## 

# References

*<Use APA Style of formatting for the list of references>*

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