

CS 320 Course Project - Software Design Document

for

<Project>

Prepared by

Group Name: <*place your group name here*>

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Edit this table as needed to suit the page numbers and titles of the diagrams you included. >

# Introduction

*<TO DO: Please provide a brief introduction to your project.>*

## Project Overview

< A brief description of the project and the diagrams.

TO DO: Write 1 paragraph explaining the project and anything of unique relevance for the diagrams included in this document. At minimum this should include which type of behavioral diagram your system will use.>

## Definitions, Acronyms and Abbreviations

<Define all the terms necessary to properly interpret the report, including acronyms and abbreviations.

TO DO: Please provide a list of all abbreviations and acronyms used in this document sorted in alphabetical order.>

## References and Acknowledgments

<List any other documents or Web addresses to which this document refers

TO DO: Use the standard IEEE citation guide for this section.>

# Activity Diagram(s)

## D-1

< Provide a title, the activity diagram, and a description of it’s contents.

TO DO: Provide an activity diagram, including which use case it deals with, and give a short description of its contents. What is happening, what the user is doing, what the start and end state/goals are. Give the diagram an appropriate title instead of “D-1”>

## D-2

<Same as for D-1, repeat for as many diagrams as you have for this section. Remove if not needed.

TO DO: Repeat same process as you did for D-1: Title, Diagram, Description, Traceability.>

## D-3

<Same as for D-1, repeat for as many diagrams as you have for this section. Remove if not needed.

TO DO: Repeat same process as you did for D-1: Title, Diagram, Description, Traceability.>

# Class Diagram(s)

## D-1

<Provide a title, the class diagram, and a table with the classes along with their descriptions.

TO DO: Provide a class Diagram for your program that shows the classes that exist for the system and their association, composition, and generalization. Provide a table underneath with a brief 1-2 sentence description of each class and their use within the system. Replace the title, D-1, with a more meaningful one.>

## D-2

*<Same as for D-1, repeat for as many diagrams as you have for this section. Remove if not needed.*

*TO DO: Repeat same process as you did for D-1: Title, Diagram, Classes and their Descriptions. >*

## D-3

*<Same as for D-1, repeat for as many diagrams as you have for this section. Remove if not needed.*

*TO DO: Repeat same process as you did for D-1: Title, Diagram, Classes and their Descriptions. >*

**3 Class Diagram**

**Maze Application**

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Description automatically generated**

|  |  |
| --- | --- |
| **Classes** | **Description** |
| DatabaseHandler | It get connection from database and access and retrieve data from database |
| LeaderBoard | It store information of users that are on the leaderboard |
| Score | It contains the time which is considered as score and a mazeText |
| Maze | It contains the 2d array of integer that is consider as maze and mazeText |
| User | It contains information related to user like score, username, mazes and its position on leaderboard |
| Game | It will be the main class that contains list of all users , leaderboard and reference to database. It will be the driver program of the game |

# Behavioral Diagram(s)

## <*This section will have either sequence diagrams or state diagrams. This will depend on if you system is data-driven (sequence) or event-driven (state).>*

## D-1

<Provide a title, the behavioral diagram, and a brief description about it.

TODO: Provide a Behavioral Diagram (sequence or state) and then give a description of what activity it is describing visually. For sequence diagrams, this would be each actor involved and the function calls between them. For state diagrams, this would be a table of each state with each state transition also labeled and described. A series of related complex states should be simplified as a “superstate” with a more in-depth view of it shown in a separate diagram. See the “operation” state in the microwave state diagram from Lecture 13 slides 27 and 28 for an example of this.>

## D-2

<Same as for D-1, repeat for as many diagrams as you have for this section. Remove if not needed.

TODO: Repeat same process as you did for D-1: Title, Diagram, Description.>

## D-3

<Same as for D-1, repeat for as many diagrams as you have for this section. Remove if not needed.

TODO: Repeat same process as you did for D-1: Title, Diagram, Description.>

Appendix A - Group Log

< Please include here all the minutes from your group meetings, your group activities, and any other relevant information. This should contain and continue the contents from the SRS. This is optional for one-person projects.>