**Software Design Document (SDD)**

1. **Introduction**
   1. Project Overview/ Problem Statement
   2. Team members and their roles in the design document
2. **Revised Requirements**

List and discuss any major/minor changes in the requirements, including which requirements have been modified, added, or removed. Indicate the effect of the changes/additions

1. **Data Design**

The Data Design describes structures that reside within the software. Attributes and relationships between data objects dictate the choice of data structures.

Complete the following tasks:

* Design sequence diagram(s) for the most critical uses cases.

(The sequence diagrams will help in identifying more possible classes and operations)

Based on the use cases, the sequence diagrams, and SRS classes, update the following:

* Classes
* Operations and attributes for each class.
* Expand and update and the data dictionary.

1. **Architecture Design**

Design the class diagram showing all relationships/associations and multiplicities.

1. **Procedural Design**

These design mediums enable the designer to represent procedural detail that facilitates translation to code. This blueprint for implementation forms the basis for all subsequent software engineering work.

*For the most dynamic and interesting classes complete the following:*

Class name

Processing narrative

Class interface description

Pseudo-code descriptions

Any restrictions/limitations

1. **User Interface Design**

* The Interface Design describes internal and external program interfaces. Interface designs are based on the information obtained from the analysis model. Present story boards or snapshots of the design of your major interface screens, with the necessary explanatory text.

1. **Programming Tools**

Which programming tools you will use and the reason for your choice

Example of tools:

* Java: This is the programming language of choice when dealing with web based software because it is easily transmitted over the World Wide Web. It is an architecture neutral, object oriented language that can be run on any computer using special Java compilers.
* Macromedia Dreamweaver and Fireworks: These software packages are commercially used for designing and organizing HTML documents, which are the medium of communication on the web.
* CGI Script: Common Gateway Interface Script is for design of forms for data input over the web. Graphics and text can be transferred, entered, and stored for use by any server function, including programs running on that server.

1. **Restrictions, limitations, and constraints**

Special design issues, which impact the design or implementation of the software, are noted here.

1. **References or sources used**