# CMPUT 291 – Mini Project 1 Design Document

Shouyang Zhou (1410390), Christopher Saunders, Jordan Vogel

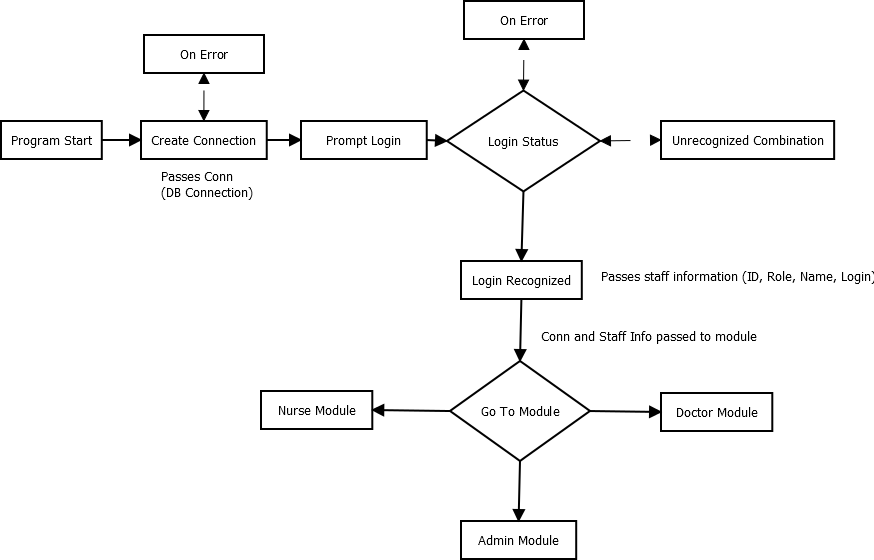
## Overview

This project is a miniature database driven hospital IT system. It allows hospital and administrative staff to store and retrieve, and modify information related to their duties by their role.

**User Guide**

## Design Strategy

The following illustrates the program flow:



**Each module** will contain a main function that offers the following:

1. Print the menu options.
   1. On module initiation, unrecognized command and the completion of a task (on success, or exit), menu options should be presented. They are displayed in the following format:

|  |
| --- |
| [Module Name]  [Staff ID] | [Staff Name] | [Current Date]  ====  A – [1 Line Description]  B – [1 Line Description]  C – [1 Line Description]  D – [1 Line Description]  E – [Logout]  ==== |

1. Do an assigned task (Tasks A-E)
   1. For standardization, each function is assigned a letter.
   2. Navigation will use these letters are triggers.
   3. Each function will take the following format:
      1. (As examples): NUR\_A(conn), DOC\_B(conn), ADM\_C(conn)
      2. Conn is the connection made during the main module.
      3. Additional parameters may be passed after conn
   4. Note that logging out will close the connection object, conn and exit the application

**Each function** should be designed in the following format:

## Testing Strategy

Each person tests another person’s function / module.

## Workload Allocation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | | **Programmer** | **Tester** | **Notes** |
| **Main Program** | |  |  |  |
|  | Connection | Dan |  |  |
|  | Log In | Dan |  |  |
|  | Encryption | Dan |  |  |
| **Doctors Module** | |  |  |  |
|  | Landing | Dan |  |  |
|  | A | Jordan |  |  |
|  | B | Jordan |  |  |
|  | C | Jordan |  |  |
|  | D | Jordan |  |  |
|  | E (Same Across) | Dan |  |  |
| **Nurse Module** | |  |  |  |
|  | Landing | Dan |  | See Module for generic functions that can be reused. |
|  | A | Dan |  |  |
|  | B | Dan |  |  |
|  | C (A in Doctors) | Jordan |  |  |
|  | D (B in Doctors) | Jordan |  |  |
|  | E | Dan |  |  |
| **Admin Module** | |  |  |  |
|  | Landing | Dan |  |  |
|  | A | Chris |  |  |
|  | B | Chris |  |  |
|  | C | Chris |  |  |
|  | D | Chris |  |  |
|  | E | Dan |  |  |