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# FIT5032 Design Report (Credit/Distinction/High Distinction Code Task)

# Safe Point

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12. **Overview**

The system will have two main modules. A reservation module and a map module. These two modules will support the main objectives of this application which is helping people to look for hospital(s) with or without GPS Location Services and make a reservation on that hospital.

1. **User stories**

As a user, I want to be able to easily search for a hospital near me and make a reservation or appointments in the same website, so that I can use my time more efficiently.

1. **Functional diagram**

Figure 3.1 below shows the main functionality of the system. The three main functionalities were to shows the reservation status, hospital list and shows the hospitals on the map.

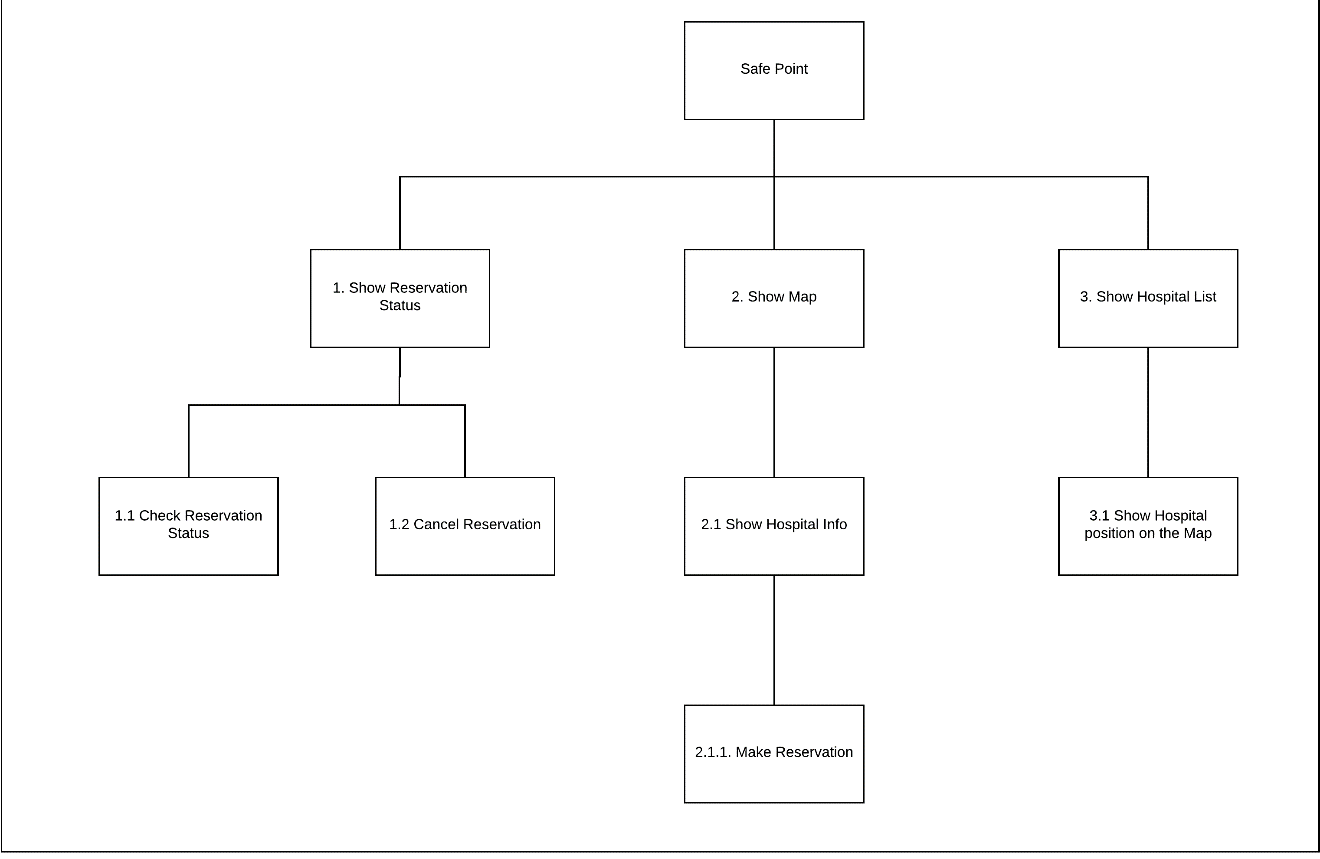
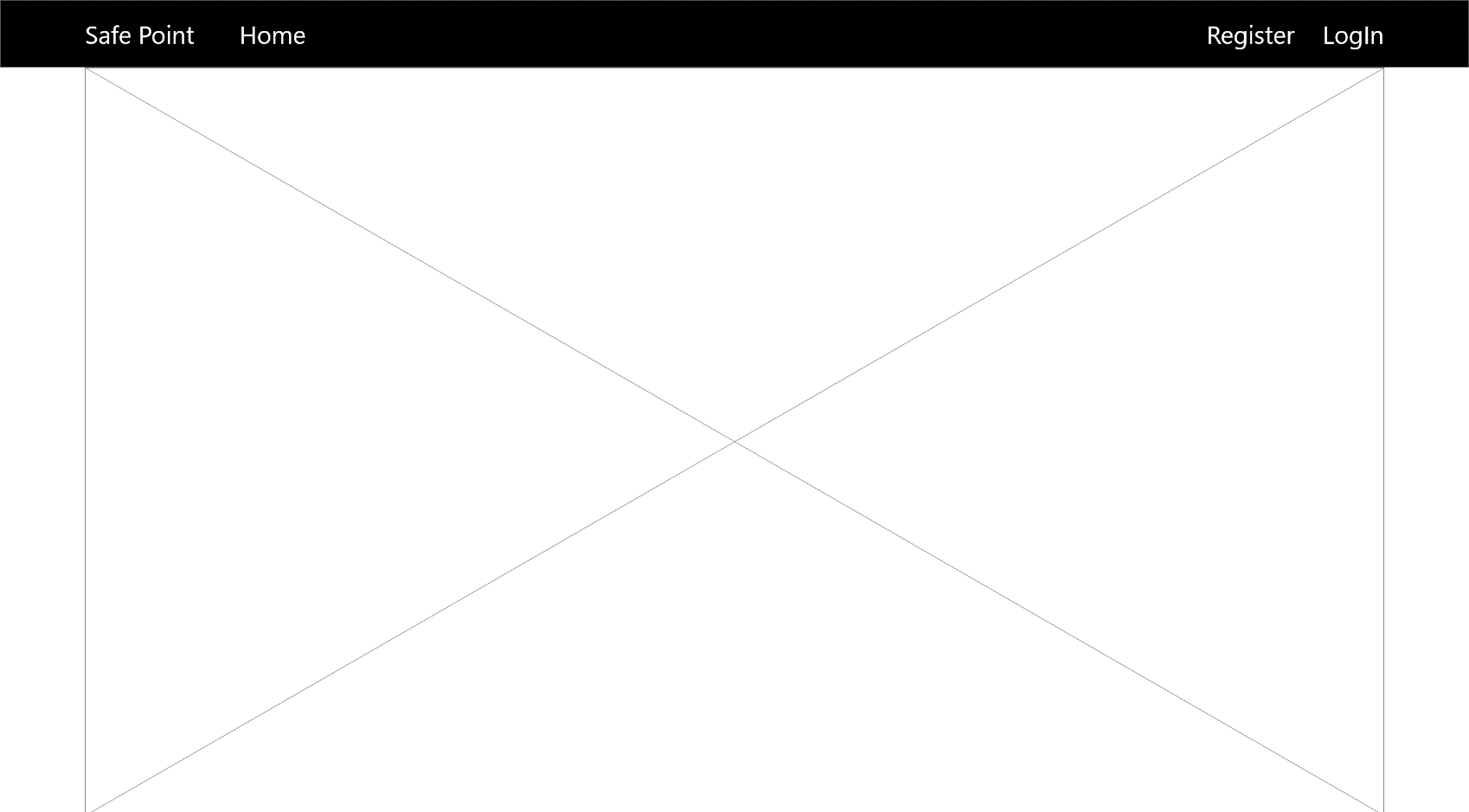
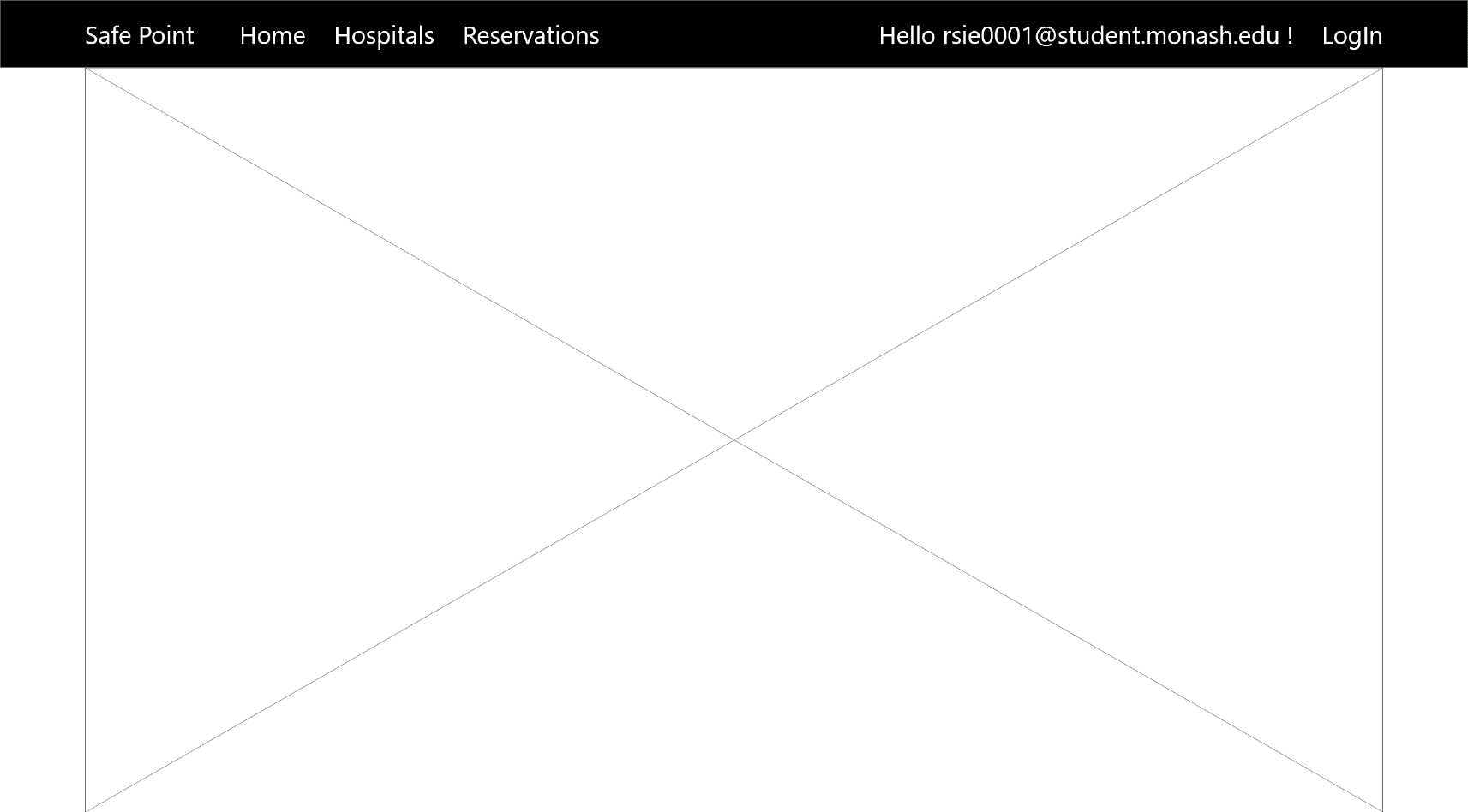


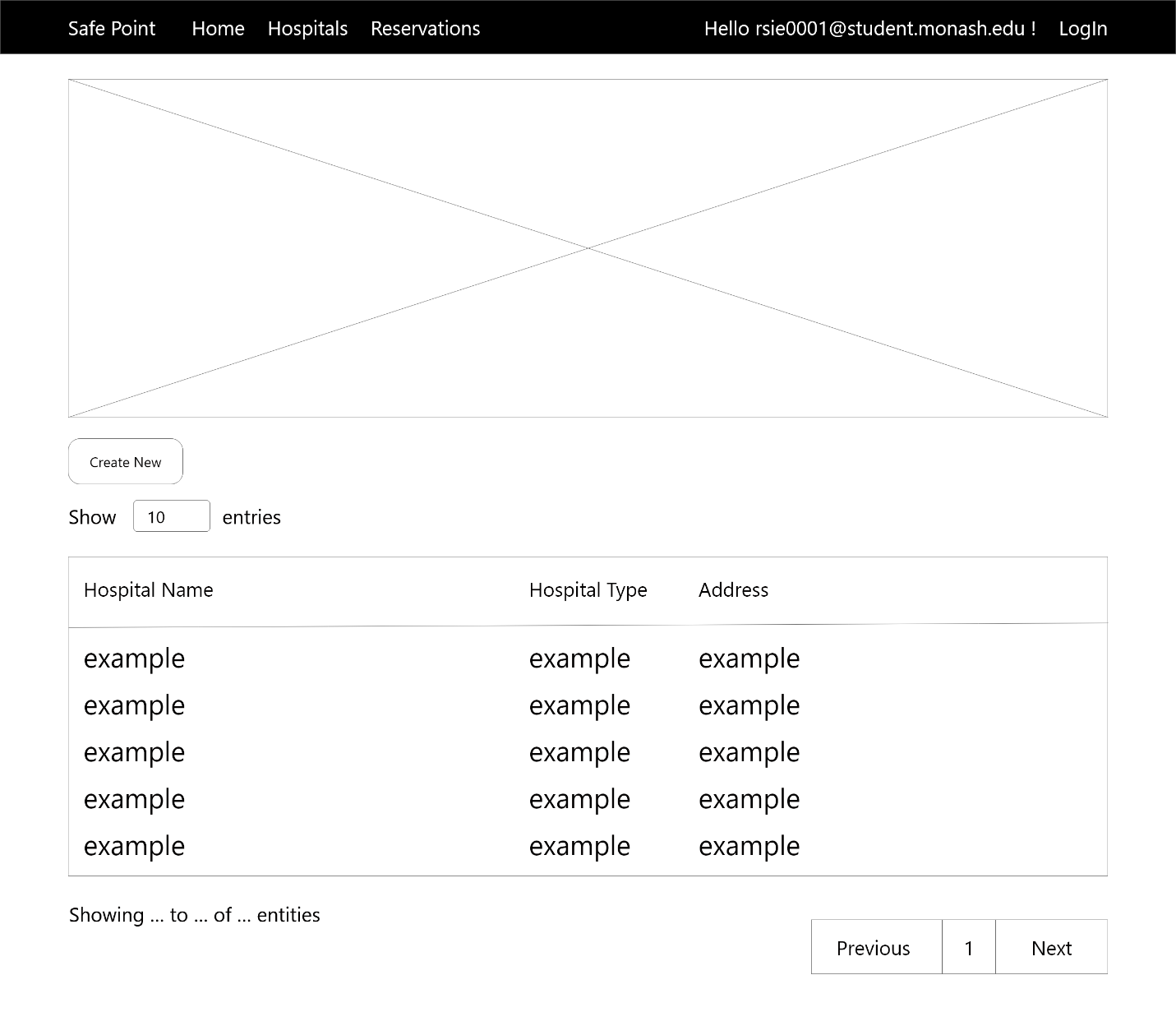
Figure 3.1 Functional Diagram

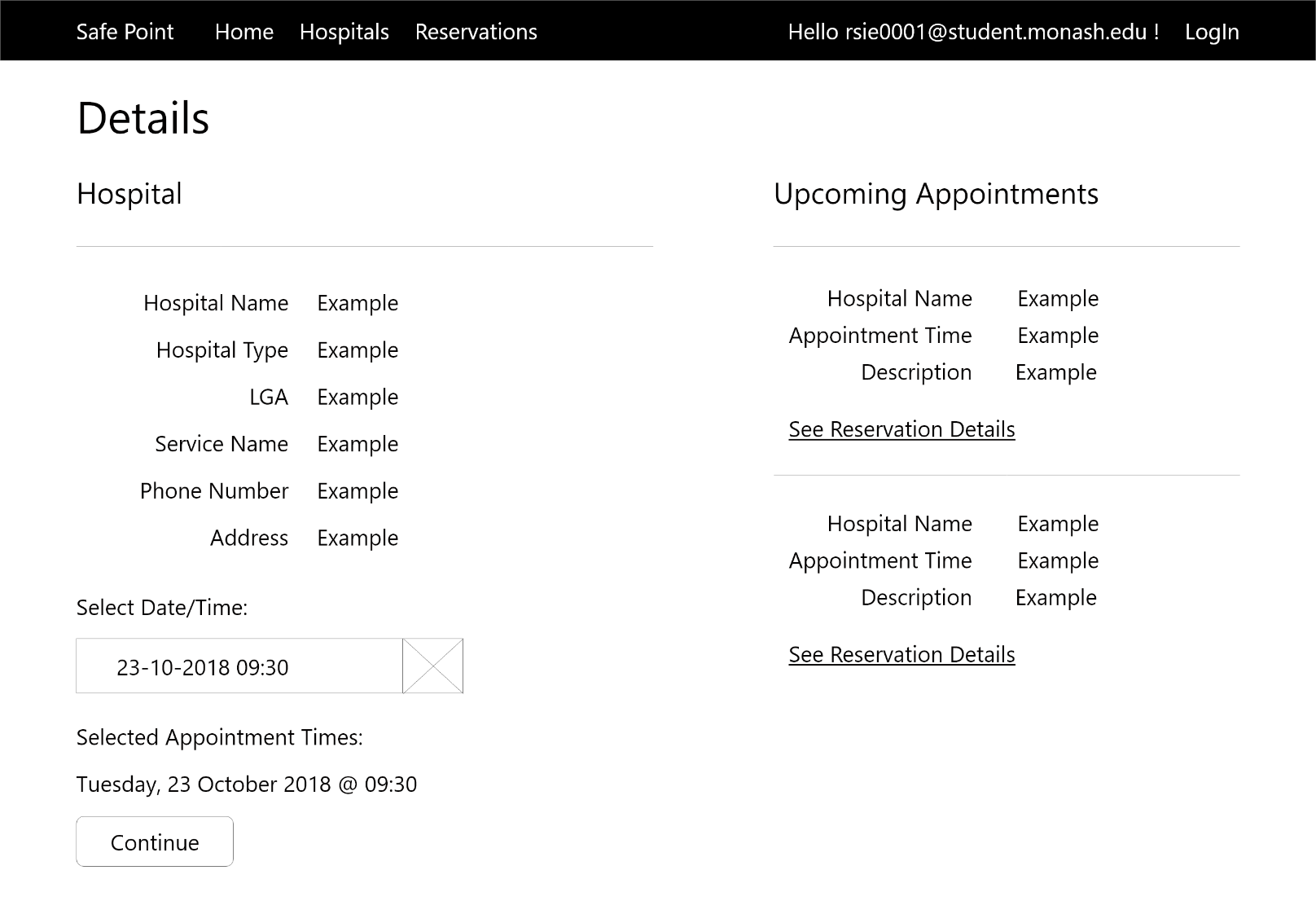
1. **Wireframe**
   * Home page:

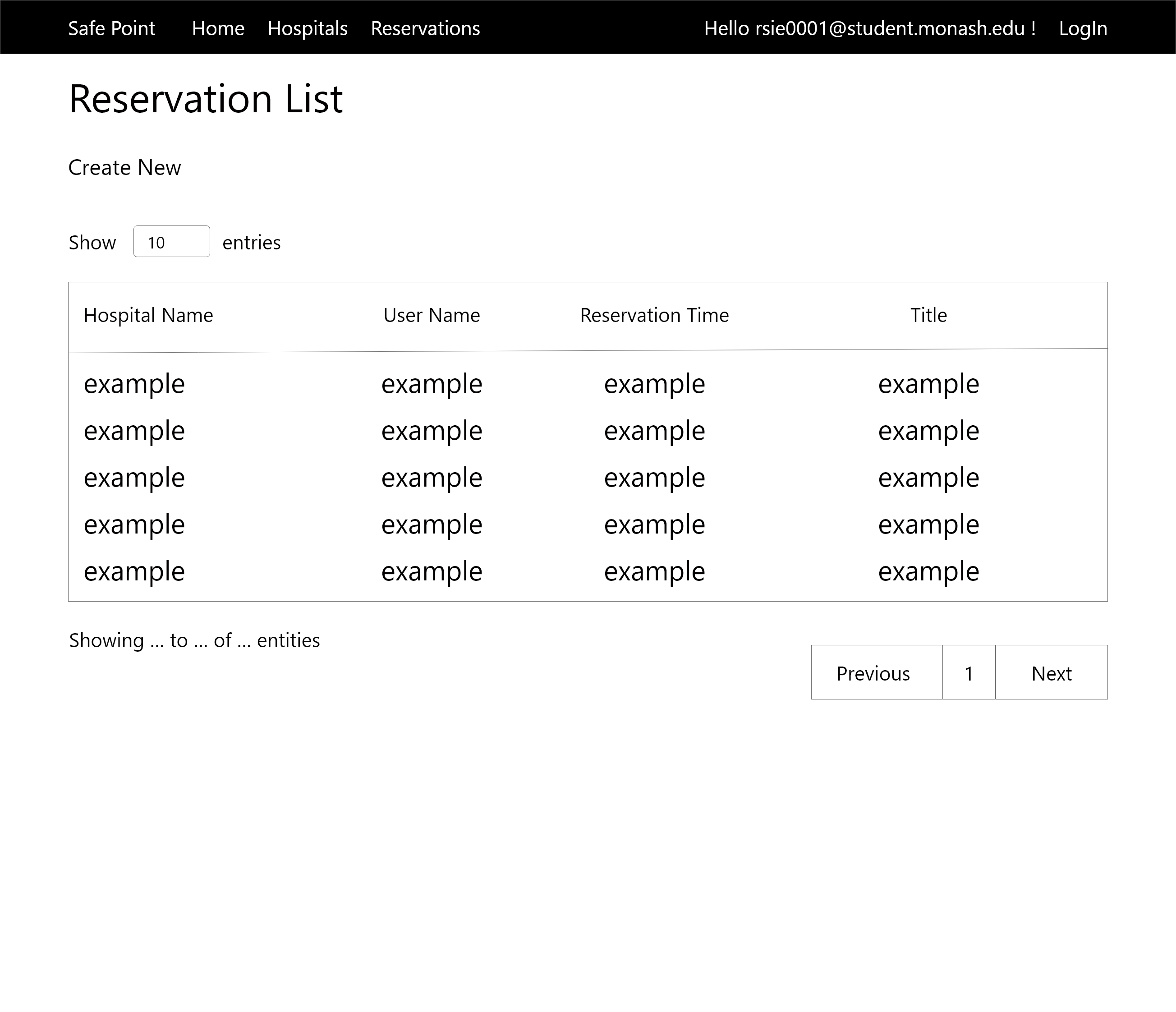


* + Home page (after login):



* + Hospital Index Page:
  + Hospital Details Page:



* + Reservation Index Page:

1. **Usability Design Review**

This application will be using Donald Norman Principles of Design which consists of visibility, feedback, constraints, mapping, consistency and affordance.

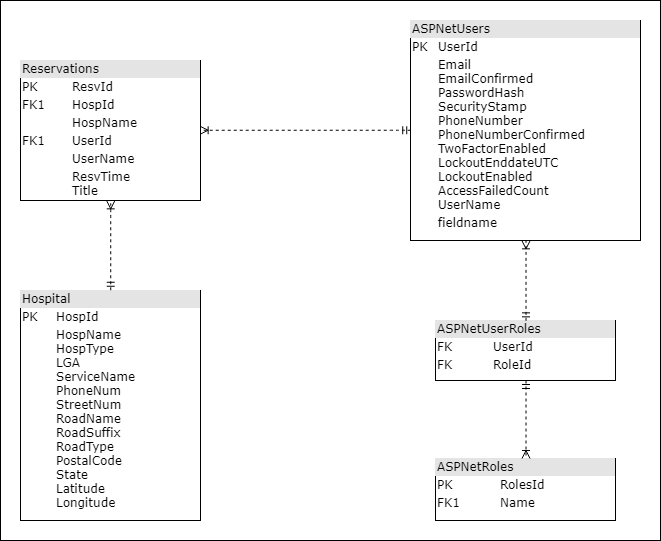
1. **Checklist of site functionality**

|  |  |
| --- | --- |
| **1. (Layout Page)** |  |
| Good Design | ✓ |
| Stylesheet | ✓ |
| JavaScript | ✓ |
| Menu | ✓ |
|  |  |
| **2. (Home page)** |  |
| Design and content | ✓ |
| Banner Image | ✓ |
|  |  |
| **3. (User Log in)** |  |
| Web form and validation controls | ✓ |
| Formatted data entry display | ✓ |
| Overall page design | ✓ |
|  |  |
| **4. (Customised Views and Controllers)** |  |
| Customised Views | ✓ |
| Customised Controllers | ✓ |
| Other customisations | ✓ |
|  |  |
| **5. (Documentation)** |  |
| Code Comments | ✓ |
| Attribution of Source of any code used | ✓ |
| **6 Additional Distinction Items** |  |
| **Basic Module 1:** |  |
| Map Module | ✓ |
|  |  |
|  |  |
| **Basic Module 2:** |  |
| Reservation Module | ✓ |
|  |  |
|  |  |
| **7 Additional High Distinction Items** |  |
| **Advanced Module:** |  |
|  |  |
|  |  |
|  |  |
|  |  |
| **Audit** |  |
| No breaking of copyright | ✓ |

1. **Your selected approach when constructing the application.**

The Database First approach was used for this project

1. **Class Diagram or Entity Relation Diagram**



1. **Data dictionary**

The data dictionary is also shown in the ERD above. Where all the ID and the phone Number is set as an int. DOB, date time is set as datetime and all other variable is set as a nvarchar with various max length characters.

1. **Development Methodology**

This project uses code and fix approach as there are where the project starts with a little planning such as what data needs to be in which table and the type it will use and when the project encounter and error, I will fix the error on the project and continue to work on the project until the project has been completed.

1. **Versioning**

I am using GitHub to handle versioning of the project, currently the repository is set as private with only me as the contributor. Later in the semester, the tutor in charge can be added as a contributor so that he can oversee what has been done in the GitHub repository.

1. **Assumptions**

There are several assumptions that were made for this project:

* One user will not book an appointment for the same day and the same time more than once
* Admin can see every reservation made by every user
* Admin can create, edit and delete every hospital detail
* Admin can create and delete an appointment made by other users
* User can only create, edit and cancel the appointment they made previously