

# **COMP4970 - Software Engineering**

## **Red Team**

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## **Features**

## Functional Requirements:

1. Client authentication, Data entry, and Data submission

### Functional Requirement 1 Features

- a. Client will be able to login to the app using their User ID.

#### Functional Requirement 1, Feature 1 Subfeatures

(client FE)

- i. FE: Login Screen/Dialog
  - ii. FE: Login is immediately required upon loading the webapp
  - iii. FE: Current User ID will be displayed on the page once logged in
  - iv. FE: Logout/Switch user functionality
- b. Client will be able to enter the room, the time slot, and the headcounts for beginning, middle, and end of each talk.

#### Functional Requirement 1, Feature 2 Subfeatures

(client FE)

- i. FE: Form with textbox for a single integer, drop down for time slots, dropdown for headcount slot, drop down for room number/name
- c. Client will have the ability to submit & overwrite a room's data.

#### Functional Requirement 1, Feature 3 Subfeatures

(client FE/BE)

- i. FE: Confirmation dialog in case data will be overwritten
- ii. BE: Will check database data in the given room/timeslot/headcount slot
- iii. BE: Data to submit
  1. the headcount
  2. headcount slot/type
  3. userID
  4. roomID(composed of roomName and or roomNum)
  5. timestamp

2. Consistent Among Platforms and Intuitive UI

### Functional Requirement 2 Features

- a. The webapp & admin portal will be common across platforms(Ex. same UI, feature set, etc.).

#### Functional Requirement 2, Feature 1 Subfeatures

(client FE)(admin-FE and BE)

- i. FE: Login screen
  - ii. FE: Main page displays options to enter/edit room information and view headcounts retrieved from volunteers.
  - iii. FE: Another page will display information on rooms and allow the admin to edit room capacity, room name, and enable/disable room. They can also add a room to the list.
  - iv. FE: Page to view and edit headcounts for each room
- b. The app & admin portal will have a Intuitive UI.

#### Functional Requirement 2, Feature 2 Subfeatures

(client FE)(admin FE)

- i. FE: Web app is easy to use and looks nice
  - ii. FE: Web app is easy to use and looks nice
- 3. Admin authentication, Display data, Add data, Modify data, and Delete data

#### **Functional Requirement 3 Features**

- a. Admins will be able to login to the admin portal using their username and password.

#### **Functional Requirement 3, Feature 1 Subfeatures**

(admin FE and BE)

- i. FE: Login screen with input from user for username and password
- b. Data in the admin portal will be able to be displayed, added, modified, and deleted.

#### **Functional Requirement 3, Feature 2 Subfeatures**

(admin FE and BE)

- i. FE: Display data and modification/delete buttons in admin portal
- 4. Security

#### **Functional Requirement 4 Features**

- a. Basic identity checks & consistency, using a simple User ID. (client FE/BE)
  - i. Actual User IDs will be entered by admin before the event begins
  - ii. FE: Current User ID will be displayed on the page once logged in
  - iii. BE: Each User ID is constituted of the volunteer's last name(initial), first name(initial), and a (probably) a number
  - iv. BE: User ID will be checked against database
- b. Client's User ID will be submitted when their data is submitted. (client BE)
  - i. ??

#### **Non-Functional Requirements:**

- 1. Data validation

#### **Non-Functional Requirement 1 Features**

- a. Data is validated before it is sent to the database. (client BE)(admin BE)

- 2. Create Database

#### **Non-Functional Requirement 2 Features**

- a. Implement a robust database to contain all data. This includes room, time slot, User ID, and headcounts for start, middle, and end. (Database)

- 3. Acknowledgement (tell the client that we received the data)

#### **Non-Functional Requirement 3 Features**

- a. Return an acknowledgement that tells the client that their submission was received. (client FE/BE)(admin FE and BE)
  - i. FE: Popup windows acknowledging that the data was sent
  - ii. FE: Banners acknowledging that the data was sent

#### **Teams:**

- Client FE - Zeily Perez, Ian Marshall
- Client BE - Jacob Hayes, Thomas Cox

- Admin FE - Rachel Palmer, Crissy Leach, Alex Bodian
- Admin BE - Ford Polia, Giles Holmes
- Database - Tim Boss, Kevin Cotter, Brady Walsh, Emmett Basaca

**Legend:**

Key	Meaning	Examples
FE	Frontend	HTML, CSS, JS, Bootstrap
BE	Backend	PHP, Asp, Apache, Bitnami Servers(ex. WAMP, LAPP)