UNIVERSITI TEKNOLOGI MARA

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

CSC584: ENTERPRISE PROGRAMMING

PROJECT STORYBOARD

SYSTEM TITLE:

FLOOD AID: DISASTER RELIEF COORDINATION SYSTEM

GROUP: CDCS2304C

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1. PROBLEM STATEMENT

Flood Aid currently relies on a manual and file-based approach to manage flood relief operations, tracking flood-affected locations, shelter availability and victim information through tools like Microsoft Excel, Google Sheets, messaging application and through media outlets. Each team or volunteer manually enters data, which leads to several key issues in coordinating timely disaster relief:

- **Time-Consuming Processes**

  Manually updating and sharing data on affected areas, shelters and victim needs is slow, resulting in delays in response times. Volunteers must repeatedly enter and cross-check information across multiple files which will reduce their ability to act quickly in emergencies.

- **Inconsistent and Fragmented Information**

  Since each team uses its own file-based method, the information is often inconsistent and lacks standardization. This fragmentation can lead to duplicate or outdated data, making it challenging to assess accurate needs and resources.

- **Increased Error Risk**

  The manual nature of the system makes it prone to human error, including mistakes in data entry, incorrect information on available shelter space and the risk of losing critical information due to accidental deletion or file mismanagement.

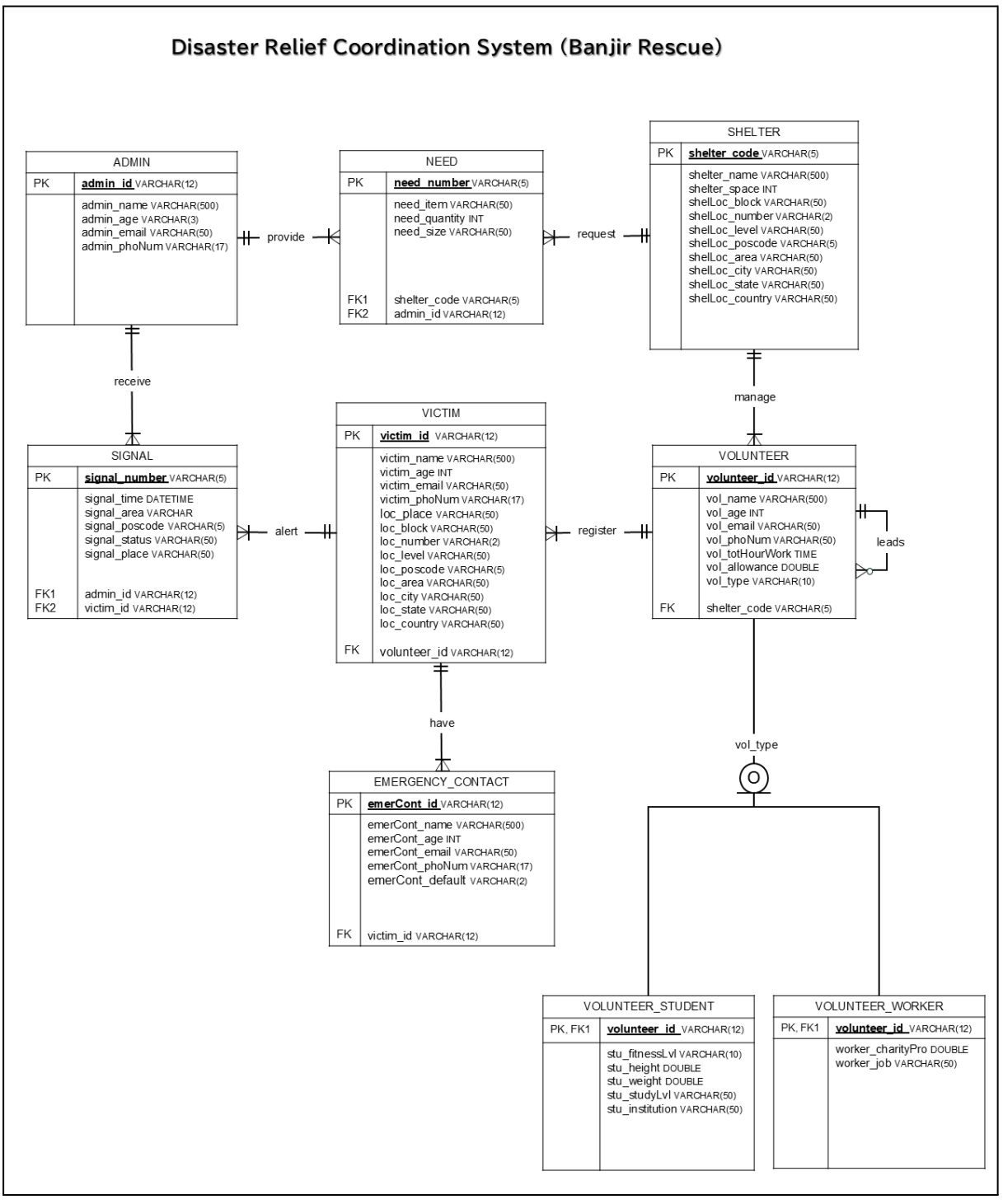
This manual system not only creates operational inefficiencies but also affects the effectiveness of the relief efforts, leading to delays and potential resource misallocation. Flood Aid needs a centralized system to improve coordination, accuracy and response times in disaster relief.

2. OBJECTIVE

The objective of the Disaster Relief Coordination System can be listed as below:

1. To identify and analyze the requirements for the Disaster Relief Coordination System, ensuring it meets the needs of flood victims, volunteers, and shelters.
2. To design a user-friendly system that is accessible and intuitive for all users, including flood victims, volunteers, and administrators.
3. To develop and test the Disaster Relief Coordination System, ensuring it functions effectively and reliably to support disaster relief efforts in real-time.

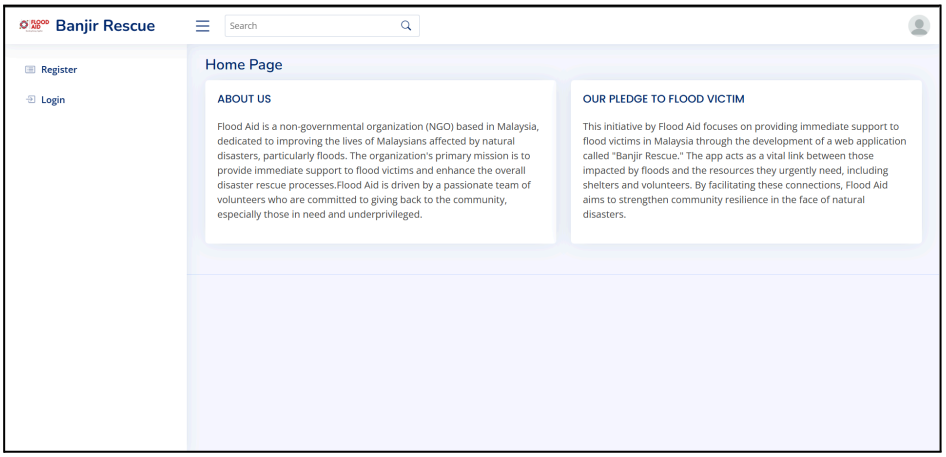
3. ENTITY RELATIONSHIP DIAGRAM



4. SYSTEM STORYBOARD

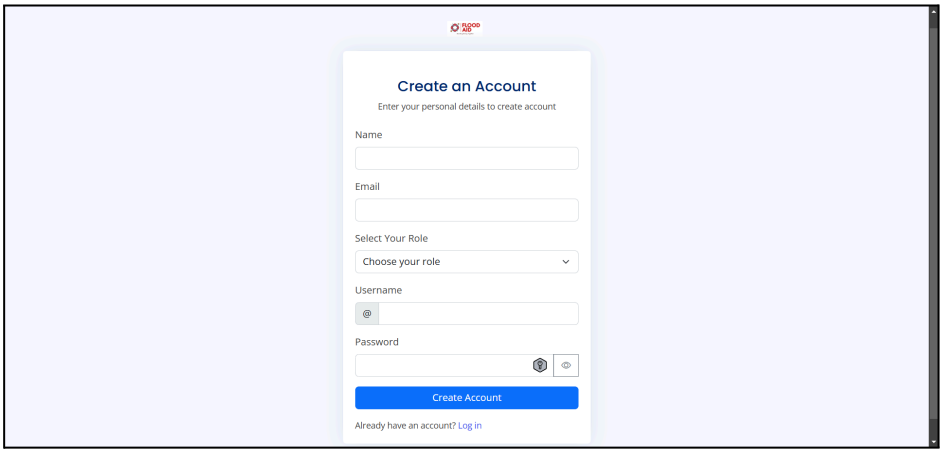
4.1. Homepage

Homepage for the system.



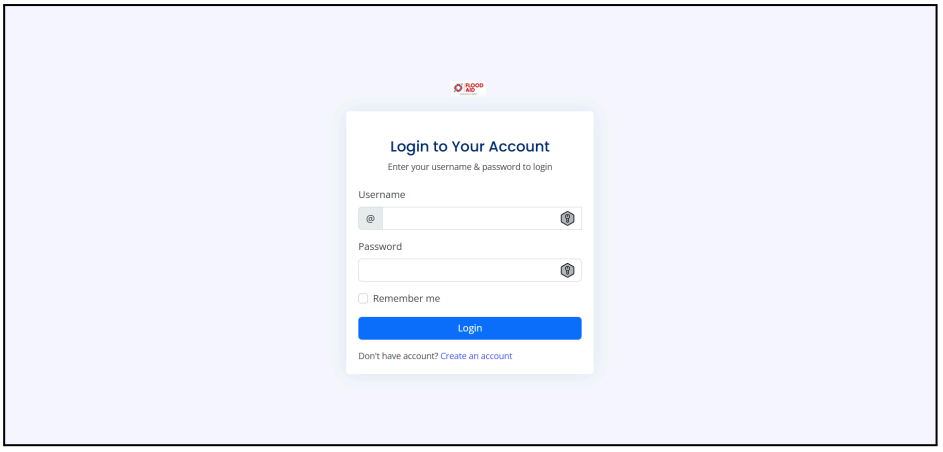
4.2. Register Account Page

Register page for users, admin and volunteer. The user (victim) can register on their own or will be assisted by volunteer.



4.3. Login Page

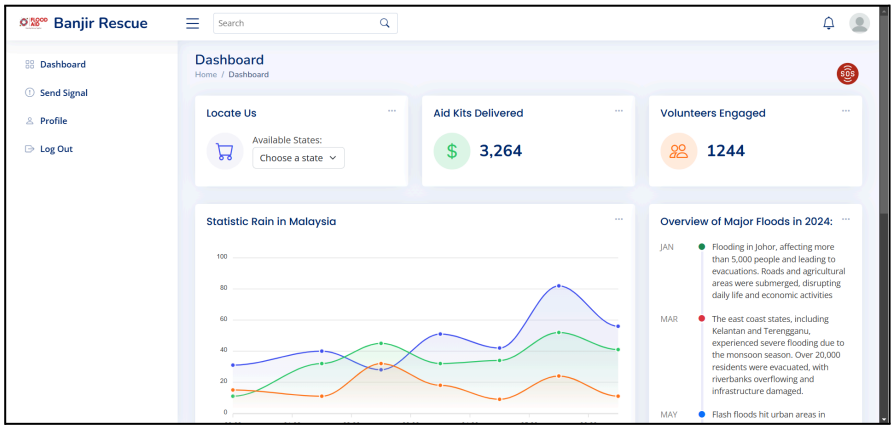
Login page for all users.



4.4. User (Victim)

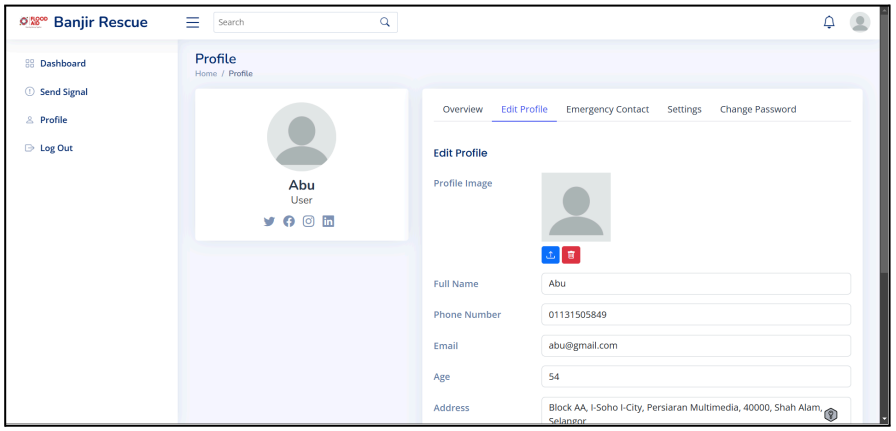
4.4.1. Dashboard

Dashboard for the user (victim) where they can see basic information like how many volunteers engaged, and information about flood. They can also send signal by clicking the 'SOS' button.



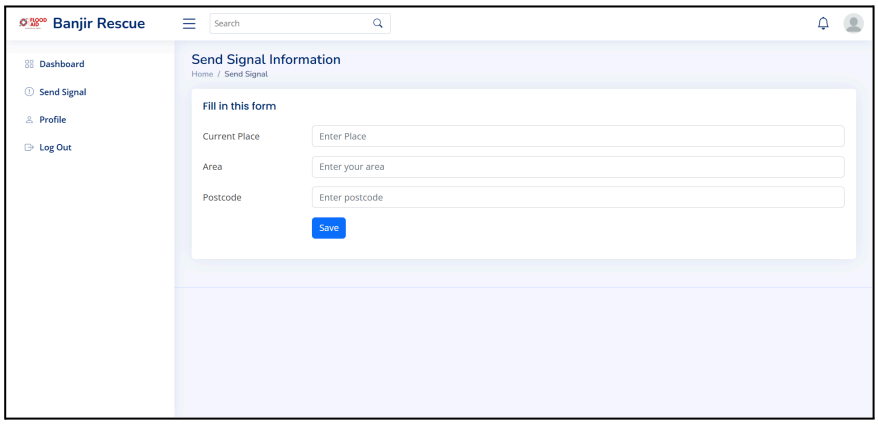
4.4.2. Manage Profile Page

Manage their own profile, where they need to fill in their information, and emergency contact.



4.4.3. Send Signal Page

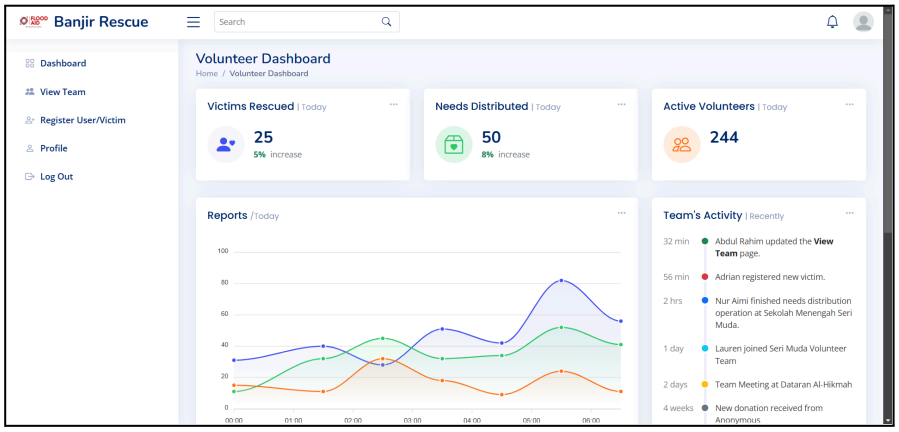
For user who register on their own prior to the disaster, they can send signal when they encounter the disaster



4.5. Volunteer

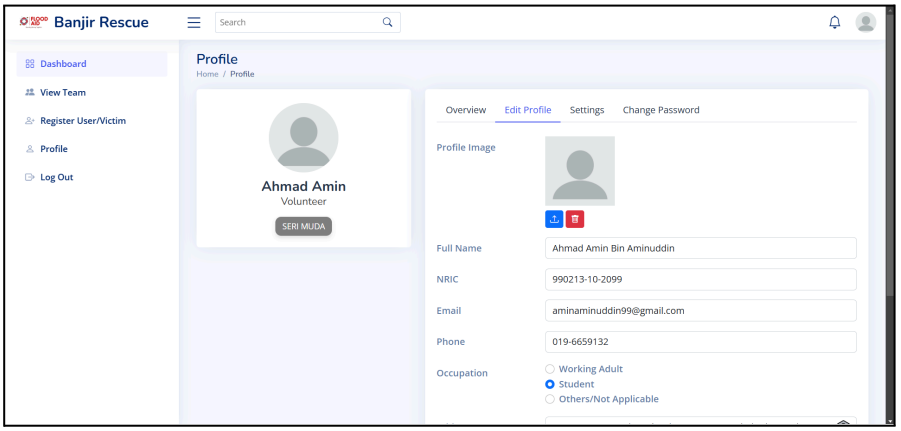
4.5.1. Dashboard

Dashboard for the volunteer where they can see information like how many victims have been rescued, needs distributed and total active volunteers.



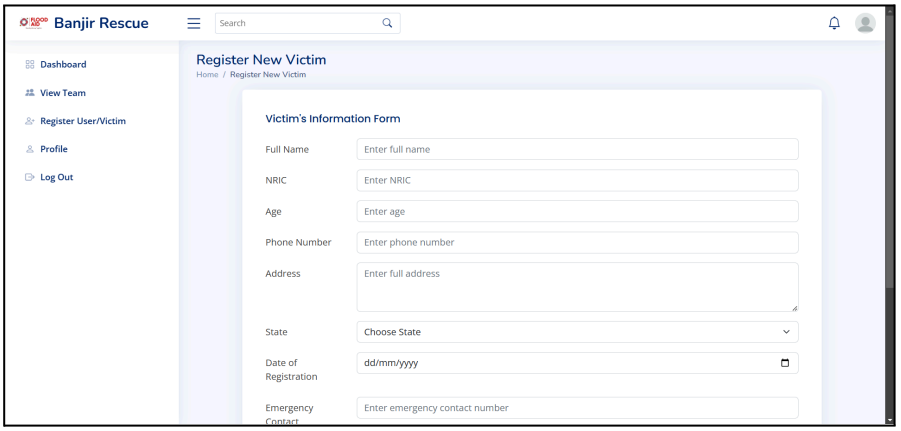
4.5.2. Manage Profile Page

Manage their own profile, where they need to fill in their information, and emergency contact.



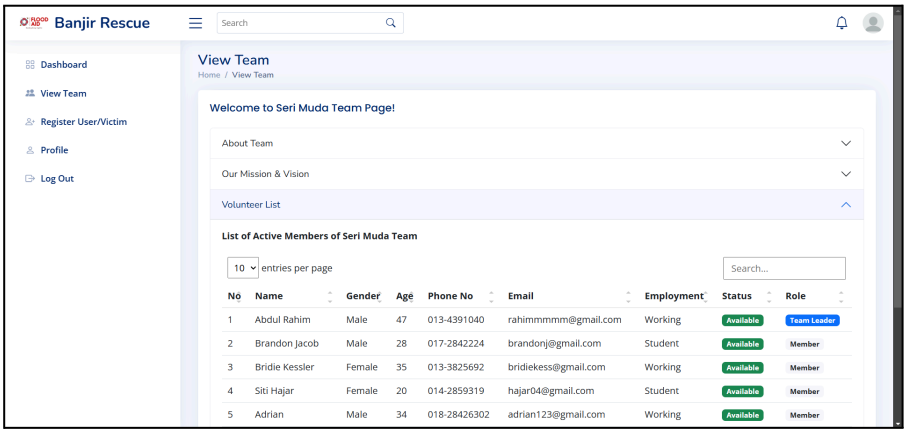
4.5.3. Register Victim Page

For victim that have not register an account prior to the flood incident, the volunteer can assist them to register.



4.5.4. View Team Page

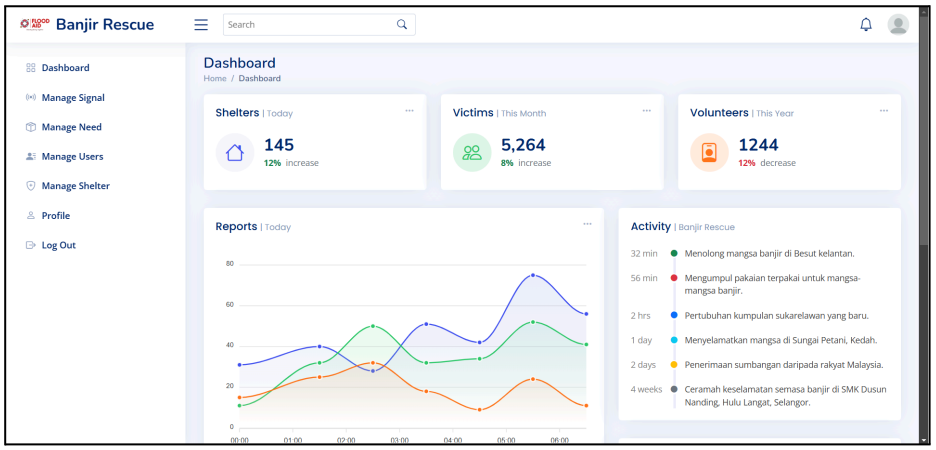
Volunteer can view the other volunteers in the same shelter.



4.6. Admin

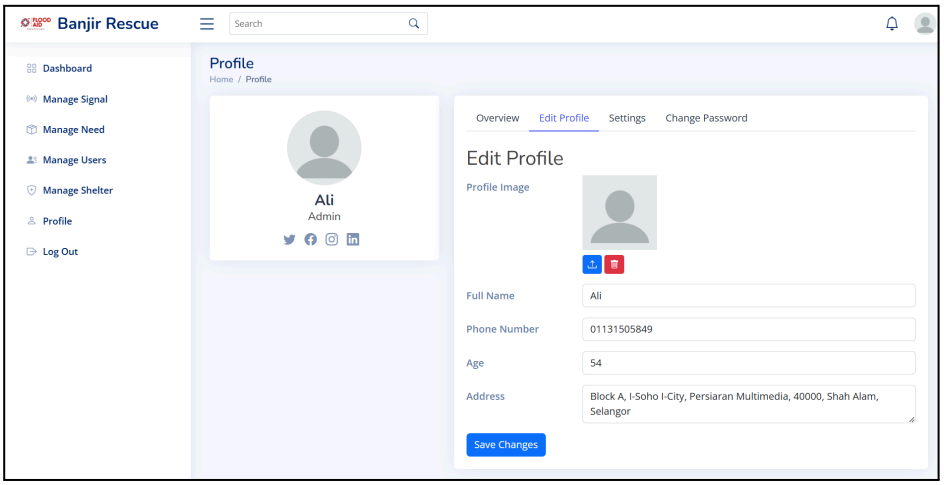
4.6.1. Dashboard

Dashboard for the volunteer where they can see information like total shelters, victims and volunteers.



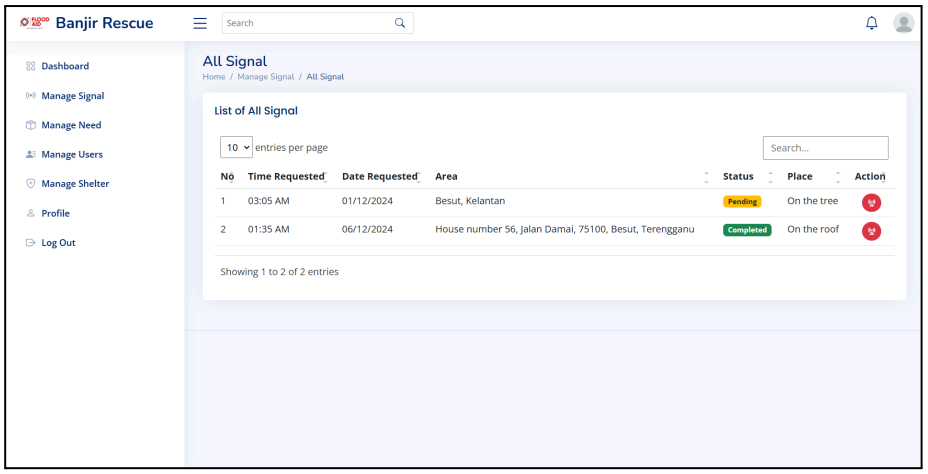
4.6.2. Manage Profile Page

Manage their own profile, need to fill in their information.



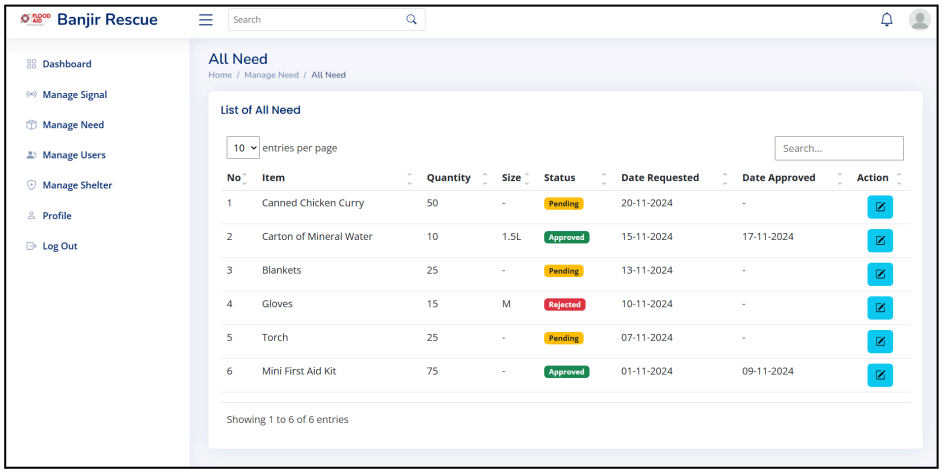
4.6.3. Manage Signal Page

Manage signal sent by user (victim), assign a shelter and notify the victim admin has received their signal



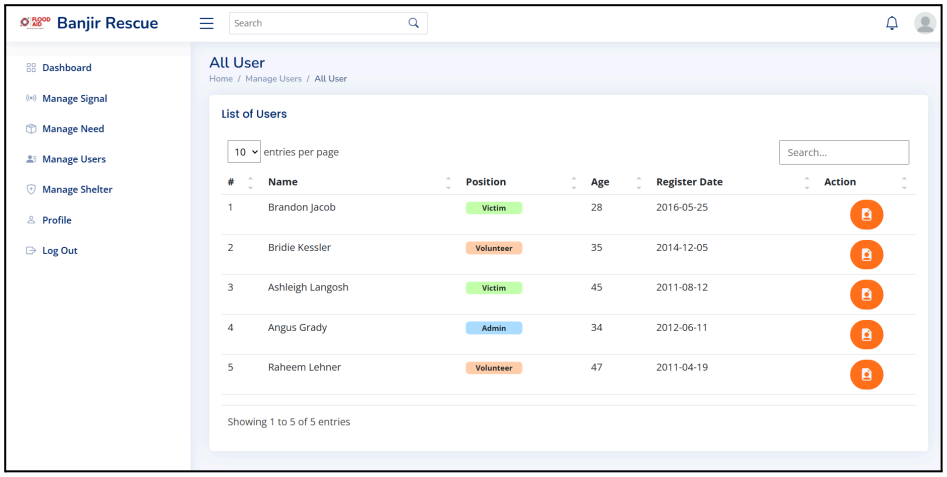
4.6.4. Manage Need Page

Manage needs requested by the shelter.



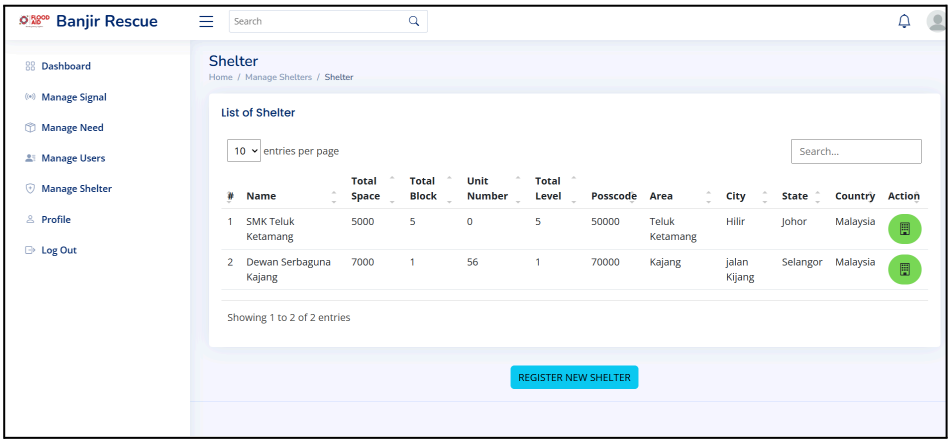
4.6.5. Manage Users Page

Manage other user account - view, edit or delete



4.6.6. Register Shelter Page

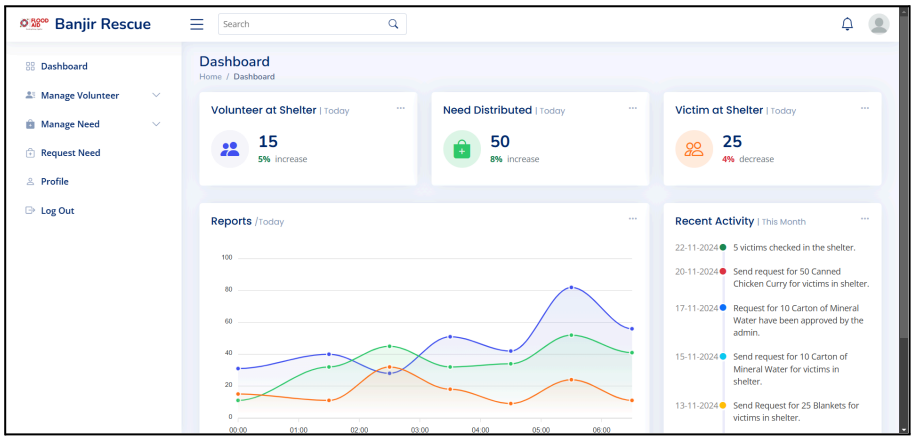
Admin will register shelter



4.7. Shelter

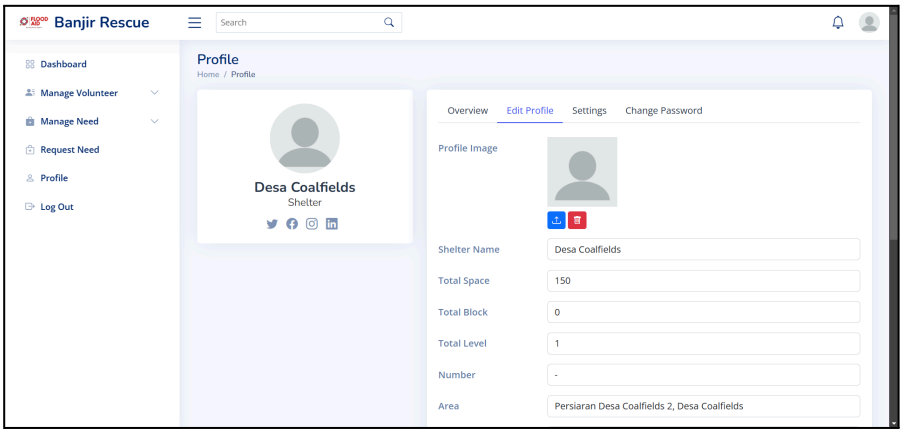
4.7.1. Dashboard

Dashboard for the shelter where they can see information like total volunteers at the shelter, need distributed and victims at the shelter



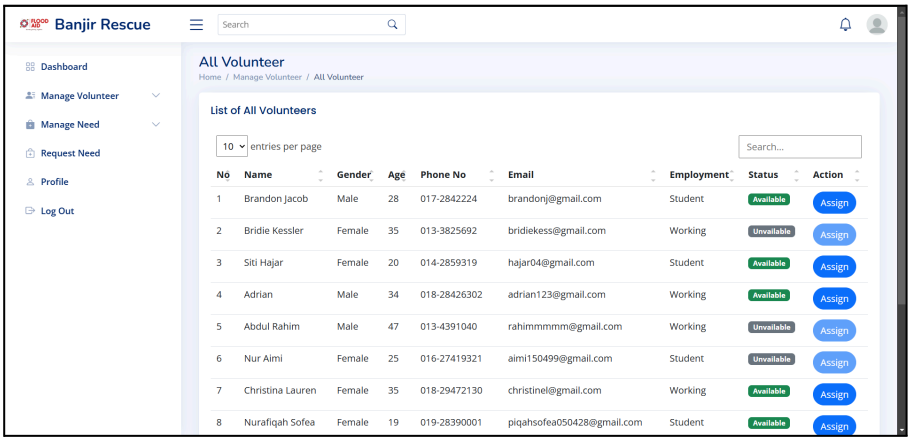
4.7.2. Manage Profile Page

Manage their own profile, where they need to fill in their information.



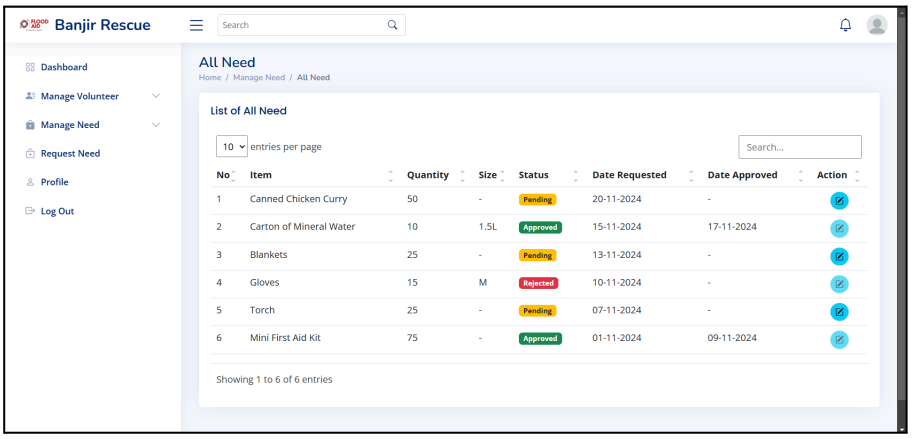
4.7.3. Manage Volunteer Page

Shelter will assign volunteer based on their need.



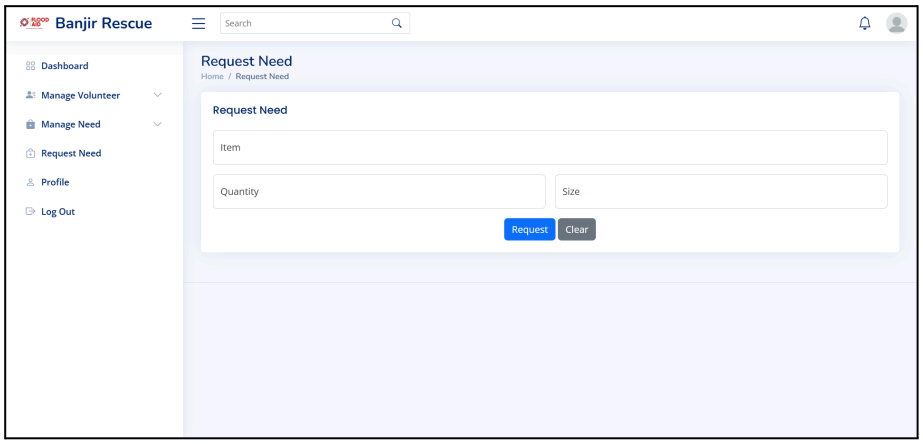
4.7.4. Manage Need Page

Shelter can manage the need they have requested - cancel or edit the need.



4.7.5. Request Need Page

Shelter can send request for needs at their shelter for the victims.



5. REFERENCES

- *Bootstrap Icons*. (n.d.). https://icons.getbootstrap.com/