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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 This fragmentation can lead to duplicate or outdated data, making it challenging to assess accurate needs and resources.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.

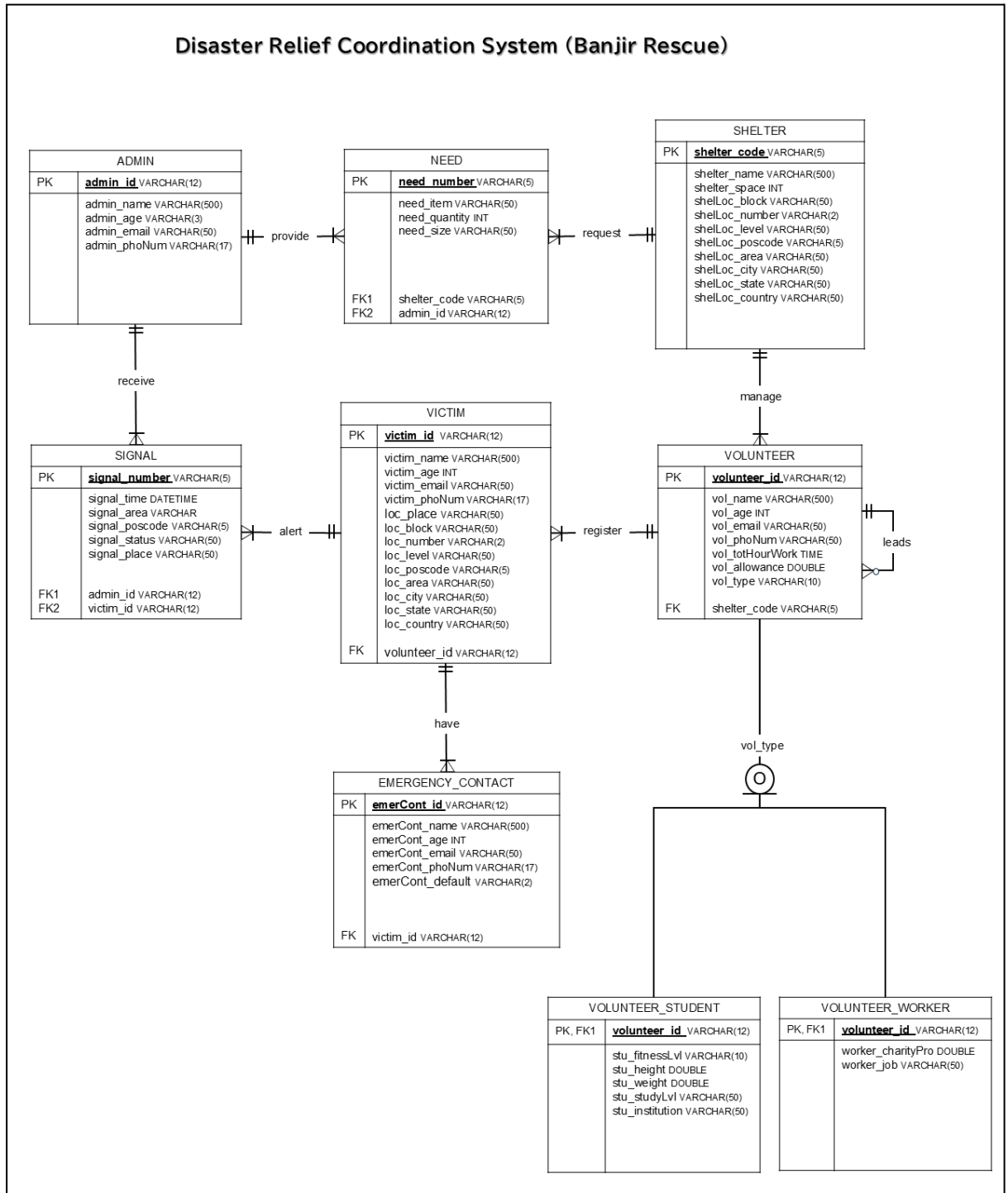
This manual system not only creates operational inefficiencies but also affects the effectiveness of the relief efforts, leading to delays and potential resource misallocation. Flood Aid needs a centralized system to improve coordination, accuracy and response times in disaster relief.

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.

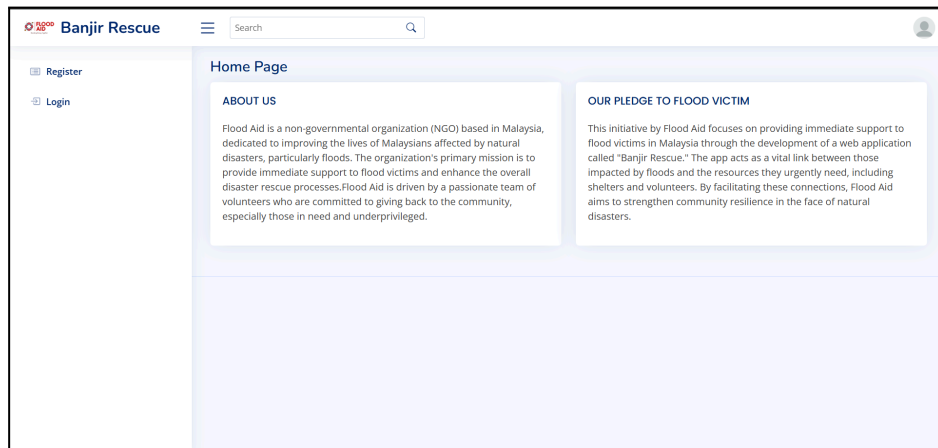
3. ENTITY RELATIONSHIP DIAGRAM



4. SYSTEM STORYBOARD

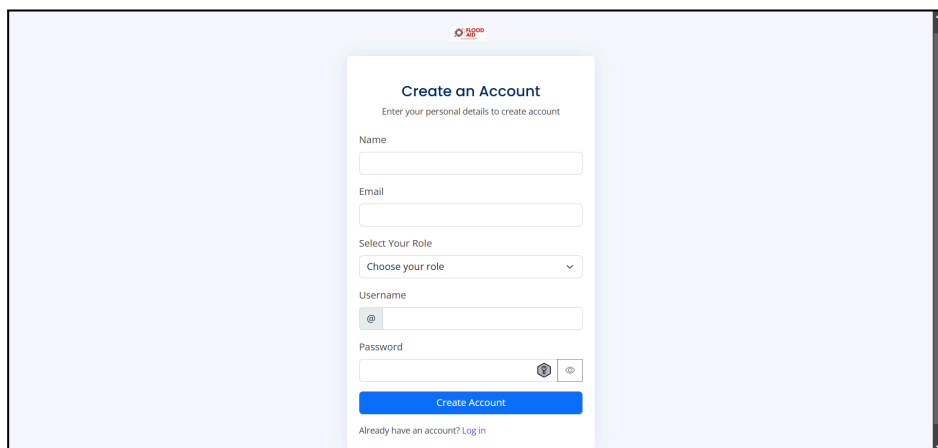
4.1. Homepage

Homepage for the system.



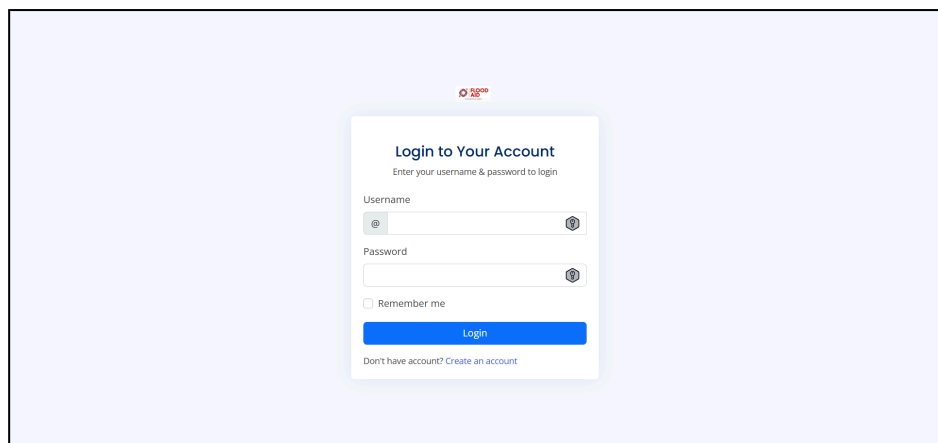
4.2. Register Account Page

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

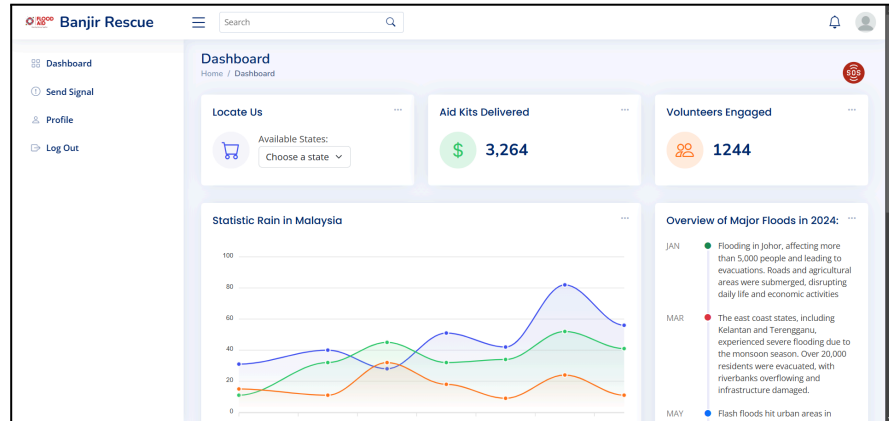
Login page for all users.



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.

The screenshot shows the 'Profile' page for a user named 'Abu User'. The page has tabs for Overview, Edit Profile, Emergency Contact, Settings, and Change Password. The 'Edit Profile' tab is active, showing fields for Profile Image, Full Name (Abu), Phone Number (01131505849), Email (abu@gmail.com), Age (54), and Address (Block AA, I-Soho I-City, Persiaran Multimedia, 40000, Shah Alam, Selangor).

4.4.3. Send Signal Page

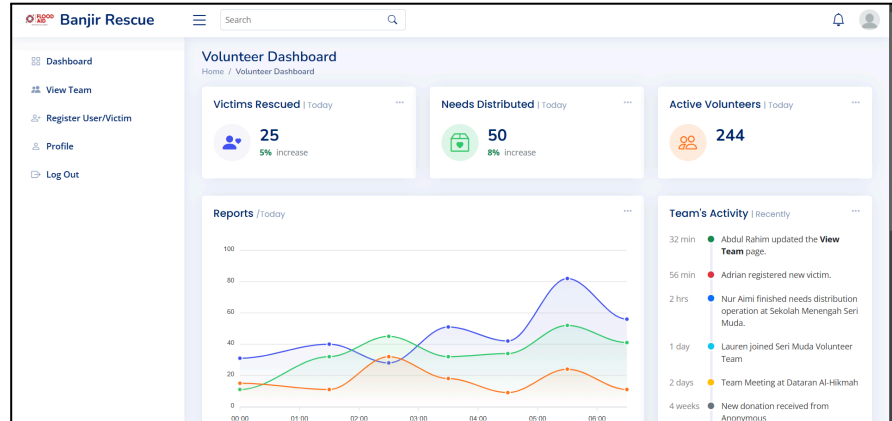
For user who register on their own prior to the disaster, they can send signal when they encounter the disaster

The screenshot shows the 'Send Signal Information' page. It contains a form titled 'Fill in this form' with fields for Current Place, Area, and Postcode. A 'Save' button is located at the bottom of the form.

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.

The screenshot shows the 'Profile' page for a volunteer named 'Ahmad Amin'. The page includes a sidebar with navigation links: Dashboard, View Team, Register User/Victim, Profile, and Log Out. The main content area displays the user's profile information, including a profile image, full name, NRIC, email, phone, and occupation. The 'Edit Profile' tab is selected, showing fields for 'Full Name', 'NRIC', 'Email', 'Phone', and 'Occupation'. The 'Occupation' field has radio buttons for 'Working Adult', 'Student' (selected), and 'Others/Not Applicable'.

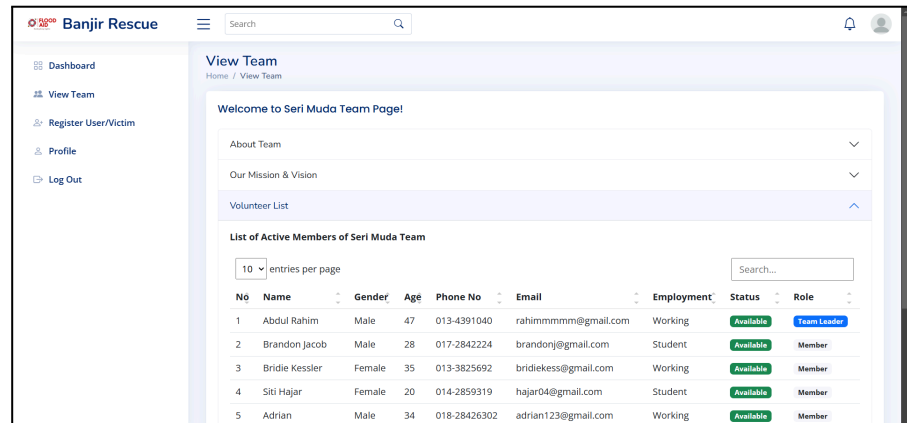
4.5.3. Register Victim Page

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

The screenshot shows the 'Register New Victim' page for the 'Banjir Rescue' application. The page includes a sidebar with navigation links: Dashboard, View Team, Register User/Victim, Profile, and Log Out. The main content area displays a 'Victim's Information Form' with fields for 'Full Name', 'NRIC', 'Age', 'Phone Number', 'Address', 'State', 'Date of Registration', and 'Emergency Contact'.

4.5.4. View Team Page

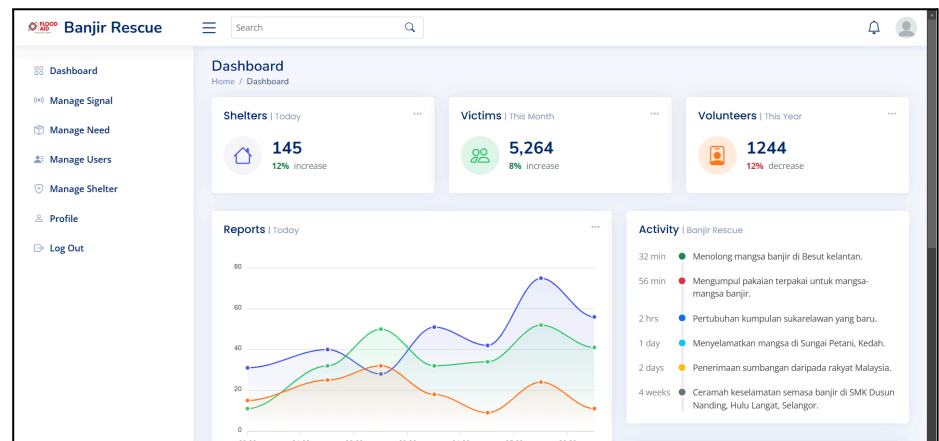
Volunteer can view the other volunteers in the same shelter.



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.

Profile

Overview Edit Profile Settings Change Password

Edit Profile

Profile Image: [User Avatar]

Full Name: Ali

Phone Number: 01131505849

Age: 54

Address: Block A, I-Soho I-City, Persiaran Multimedia, 40000, Shah Alam, Selangor

Save Changes

4.6.3. Manage Signal Page

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

No	Time Requested	Date Requested	Area	Status	Place	Action
1	03:05 AM	01/12/2024	Besut, Kelantan	Pending	On the tree	
2	01:35 AM	06/12/2024	House number 56, Jalan Damai, 75100, Besut, Terengganu	Completed	On the roof	

4.6.4. Manage Need Page

Manage needs requested by the shelter.

No	Item	Quantity	Size	Status	Date Requested	Date Approved	Action
1	Canned Chicken Curry	50	-	Pending	20-11-2024	-	
2	Carton of Mineral Water	10	1.5L	Approved	15-11-2024	17-11-2024	
3	Blankets	25	-	Pending	13-11-2024	-	
4	Gloves	15	M	Rejected	10-11-2024	-	
5	Torch	25	-	Pending	07-11-2024	-	
6	Mini First Aid Kit	75	-	Approved	01-11-2024	09-11-2024	

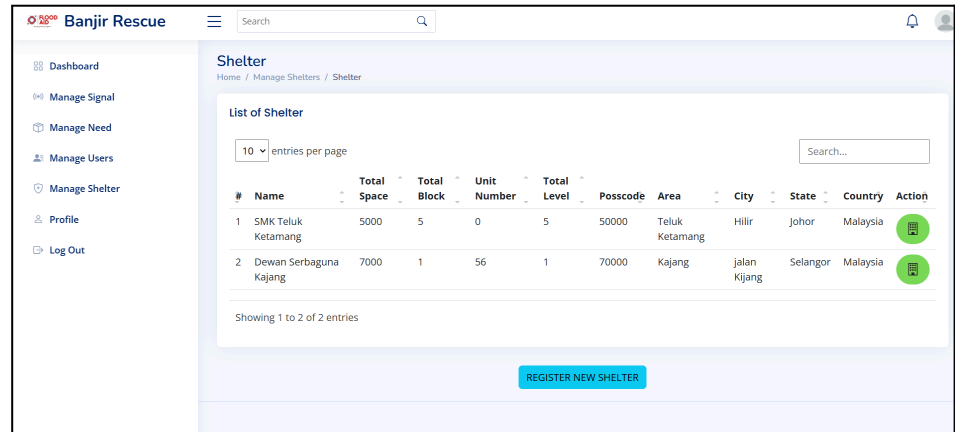
4.6.5. Manage Users Page

Manage other user account - view, edit or delete

#	Name	Position	Age	Register Date	Action
1	Brandon Jacob	Victim	28	2016-05-25	
2	Bridie Kessler	Volunteer	35	2014-12-05	
3	Ashleigh Langosh	Victim	45	2011-08-12	
4	Angus Grady	Admin	34	2012-06-11	
5	Raheem Lehner	Volunteer	47	2011-04-19	

4.6.6. Register Shelter Page

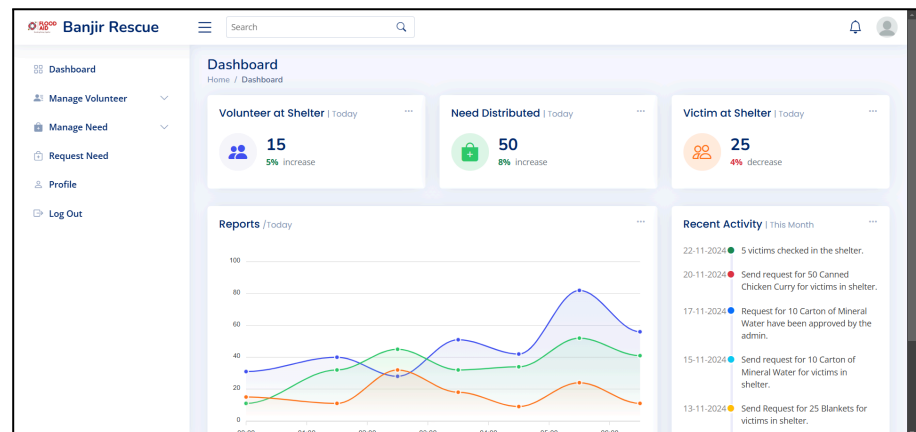
Admin will register shelter



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.

Profile
Home / Profile

Overview Edit Profile Settings Change Password

Profile Image

Shelter Name: Desa Coalfields

Total Space: 150

Total Block: 0

Total Level: 1

Number: -

Area: Persiaran Desa Coalfields 2, Desa Coalfields

4.7.3. Manage Volunteer Page

Shelter will assign volunteer based on their need.

No	Name	Gender	Age	Phone No	Email	Employment	Status	Action
1	Brandon Jacob	Male	28	017-2842224	brandonj@gmail.com	Student	Available	Assign
2	Bridie Kessler	Female	35	013-3825692	bridiekess@gmail.com	Working	Unavailable	Assign
3	Siti Hajar	Female	20	014-2859319	hajar04@gmail.com	Student	Available	Assign
4	Adrian	Male	34	018-28426302	adrian123@gmail.com	Working	Available	Assign
5	Abdul Rahim	Male	47	013-4391040	rahimmmmm@gmail.com	Working	Unavailable	Assign
6	Nur Aimi	Female	25	016-27419321	aimi150499@gmail.com	Student	Unavailable	Assign
7	Christina Lauren	Female	35	018-29472130	christinel@gmail.com	Working	Available	Assign
8	Nurafiqah Sofea	Female	19	019-28390001	piqahsofea050428@gmail.com	Student	Available	Assign

4.7.4. Manage Need Page

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

No	Item	Quantity	Size	Status	Date Requested	Date Approved	Action
1	Canned Chicken Curry	50	-	Pending	20-11-2024	-	✓
2	Carton of Mineral Water	10	1.5L	Approved	15-11-2024	17-11-2024	✓
3	Blankets	25	-	Pending	13-11-2024	-	✓
4	Gloves	15	M	Rejected	10-11-2024	-	✓
5	Torch	25	-	Pending	07-11-2024	-	✓
6	Mini First Aid Kit	75	-	Approved	01-11-2024	09-11-2024	✓

Showing 1 to 6 of 6 entries

4.7.5. Request Need Page

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

Request Need

Item

Quantity

Size

Request Clear

5. REFERENCES

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