

USER MANUAL

Disaster Relief Coordination System

SEMESTER October 2024 – February 2025

Group: CDCS2534B

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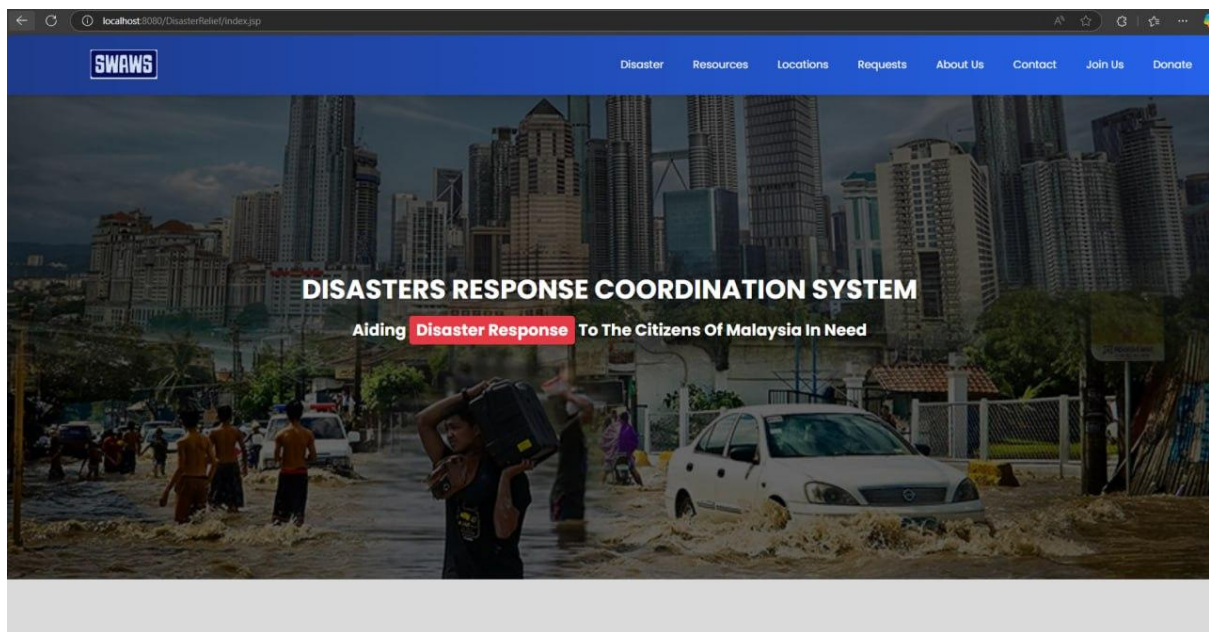
1.0 INTRODUCTION

Disasters caused by humans and nature may lead to chaos, misunderstandings, and inefficient resource use, which can create delays in the delivery of relief and a higher death toll. Typical emergency response techniques frequently experience delays in information dissemination, fragmentation, and a lack of coordination.

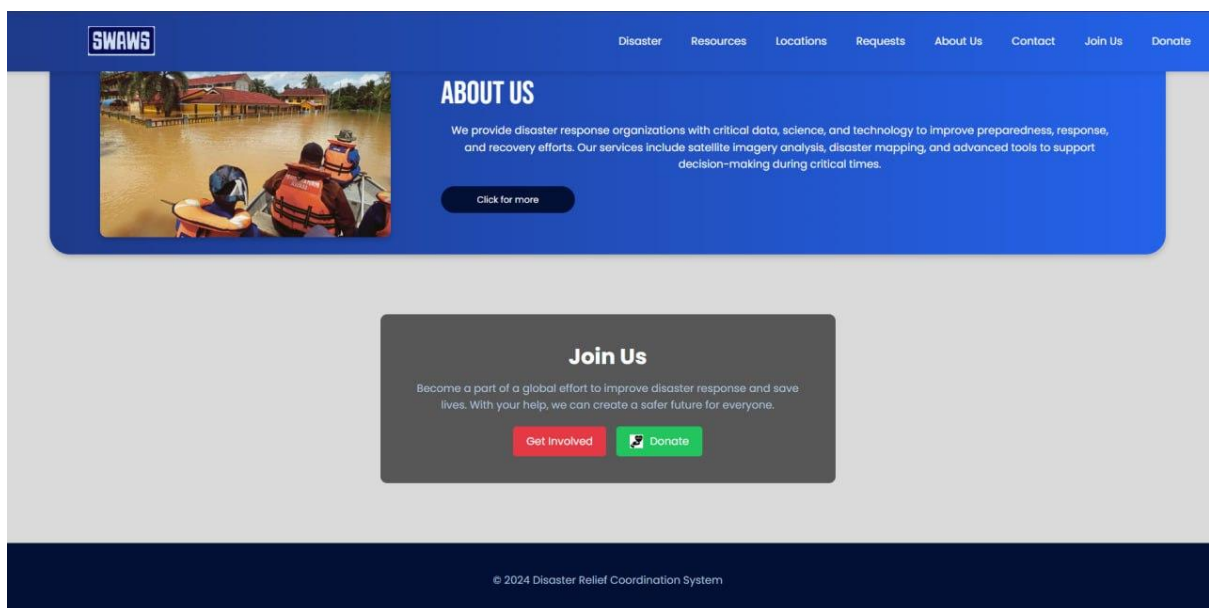
To help with preparing and improving disaster response work, the Disaster Relief Coordination System (DRCS) was developed. It provides an interface for volunteers and non-governmental organizations (NGOs), and those impacted to efficiently coordinate and implement relief efforts. The system allows real-time communication, resource management, and situation monitoring to provide a timely and effective response to catastrophes.

This system was developed using Java EE, Servlets, and JSP, ensuring that the web are reliable and functional. This website allows users to register, log in, make request, contacts, give donations. Meanwhile for admin can manage the disaster list, location details, resource management, and request management.

2.0 USER

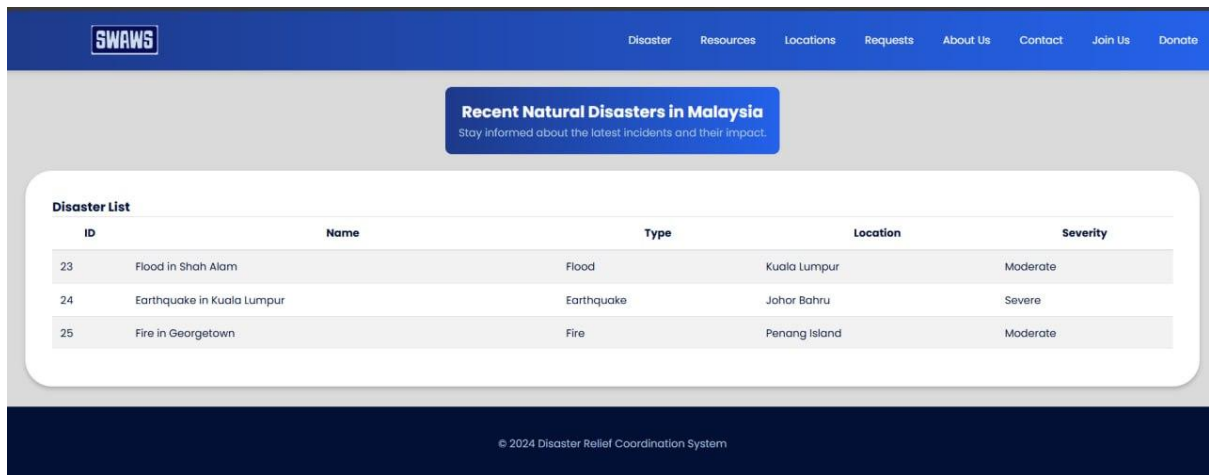


2.1 User Homepage



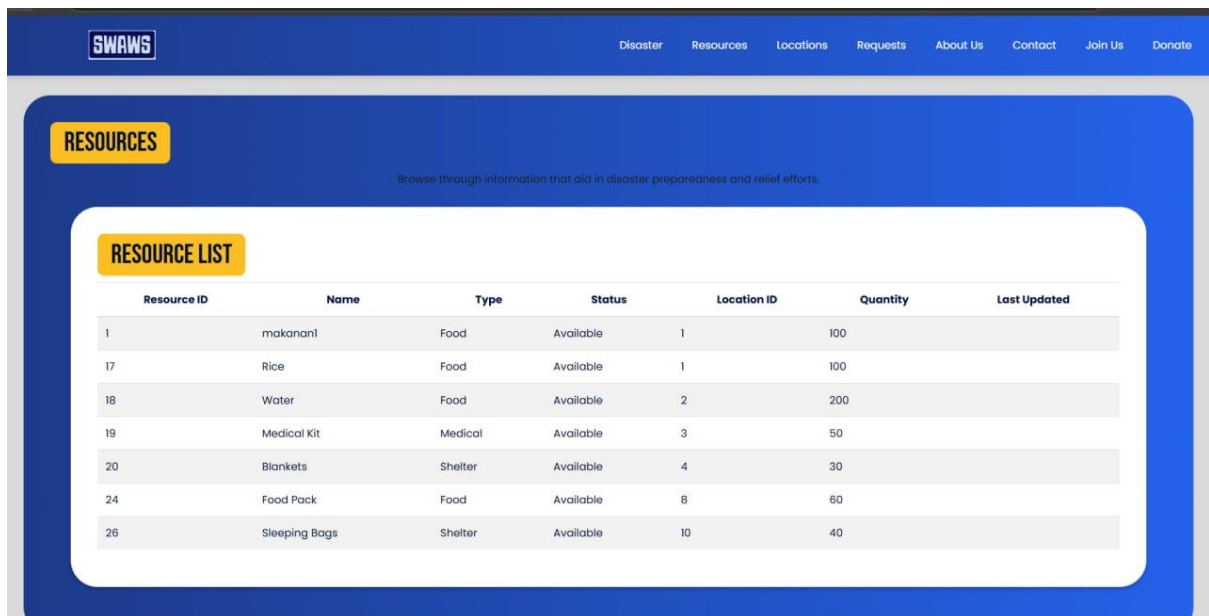
2.2 User Homepage

In user homepage, there is navigations bar for the user to go to other page such as, *Disaster page*, *Resources page*, *Locations page*, *Requests page*, *About Us page*, *Contact page*, *Join us*, and *Donate page*.



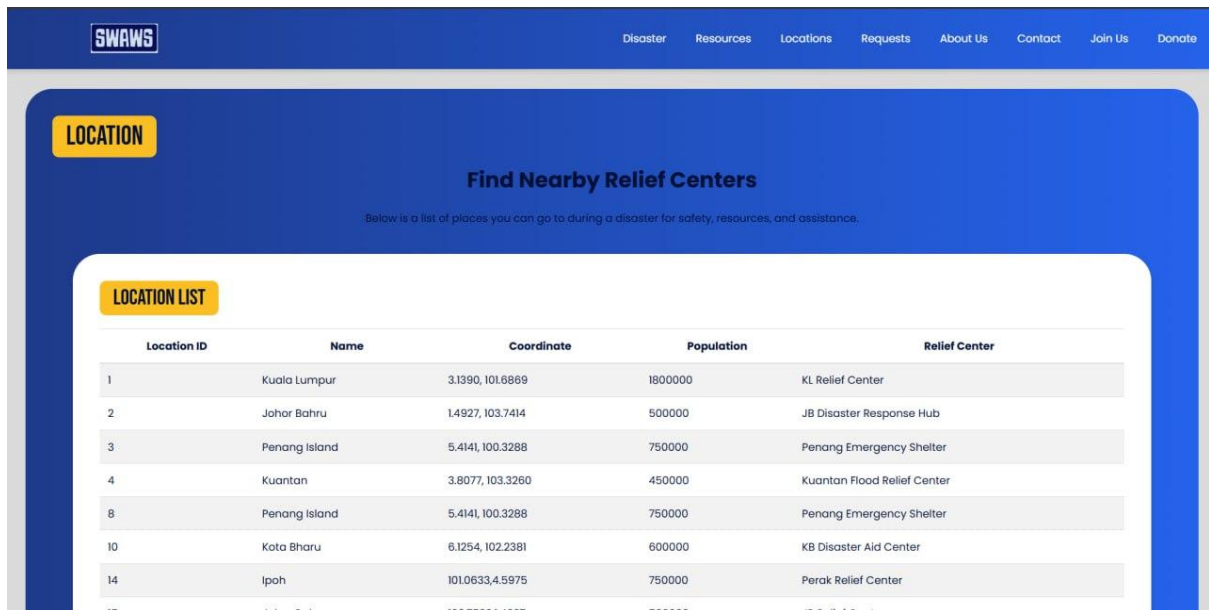
2.3 List Disaster Page

In this page, user can see the recent natural disasters happened in Malaysia including the ID, Name, Type, Location, and Severity. The list will update every time the list adds, edit and remove.



2.4 Resources Page

This page list out the resources availability for user to check out. It listed with Resource ID, Name, Type, Status, Location ID, Quality, and Last Updated.



2.5 Location Page

Location Page shows user the nearby relief centers that included Location ID, Name, Coordinate, Population, and Relief Center.

Request Form

If you are in need of assistance, please fill out the form below and we will get back to you as soon as possible.

Name:

Email:

Phone Number:

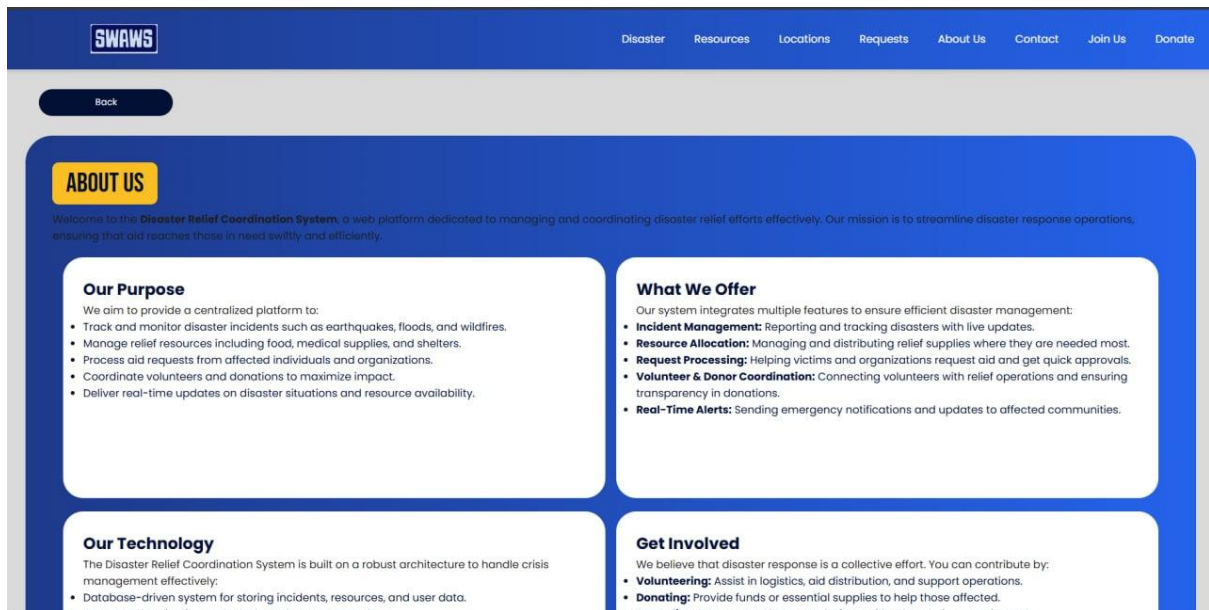
Resource:

Location:

Quantity:

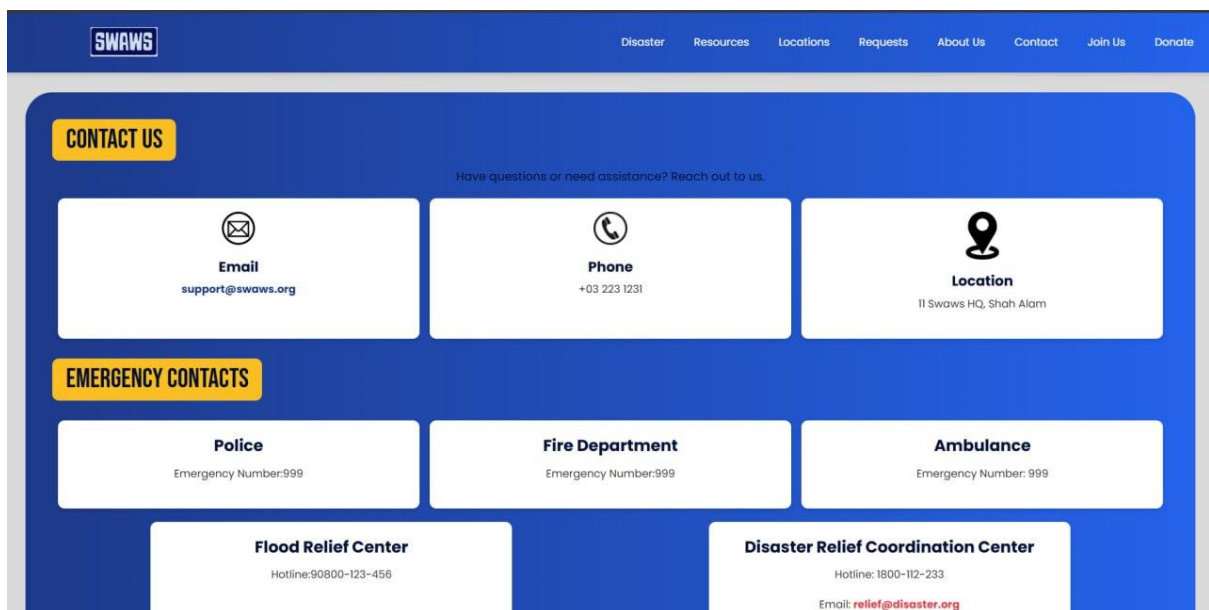
2.6 Request Form Page

This page is for user when they wanted to help in resource matter, they can fill in a request for assistance and it will be stored in database. Users need to fill out the Name, Email, Phone Number, Resource, Location and Quantity.



2.7 About Us Page

This page shows about SWAWS that include Our purpose, what we offer, our technology and information for users to get involved.



2.8 Contact Us Page

This page help users to contact us by email, phone, and our location. It also includes emergency contacts for users in need, this includes police contact, fire department contact, ambulance contact, flood relief center contact. And disaster relief coordination center contact.

SWAWS

DisasterResourcesLocationsRequestsAbout UsContactJoin UsDonate

JOIN US

Join Us as a Volunteer

Fill out the form below to apply as a volunteer. Together, we can make a difference!

Volunteer Registration

Name:

NRIC:

Email:

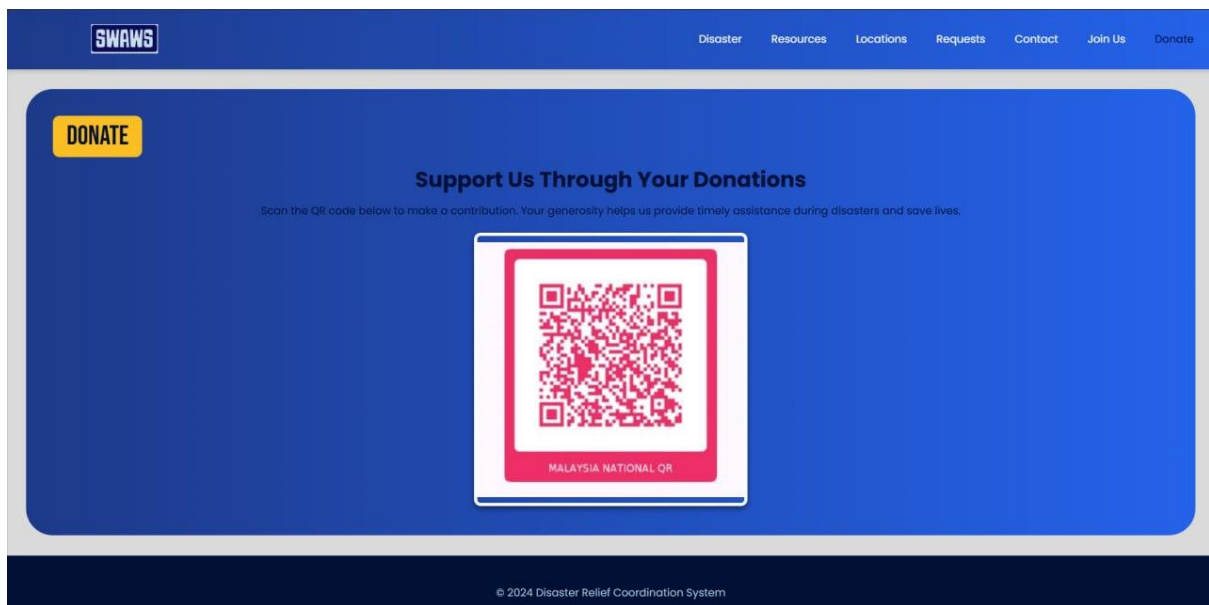
Phone Number:

Gender:

Area of Interest:

2.9 Join Us Page

This page allows users to join us as volunteers to help people in need. They must fill in the name, NRIC, email, phone number, gender, and area of interest.



2.10 Donation Page

This page allows users to make donations by scanning a QR code.

3.0 Admin



SWAWS Admin Login

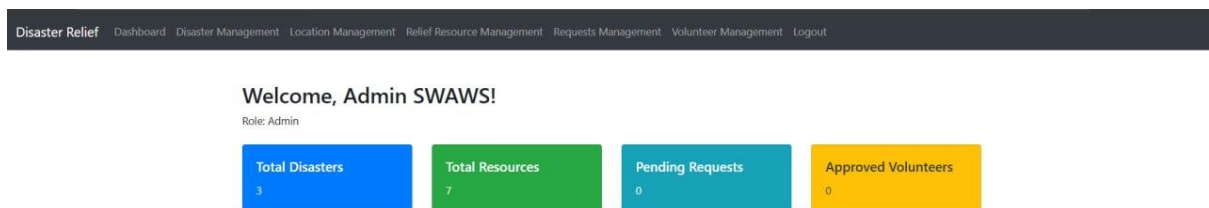
Username:

Password:

Login

3.1 Login Admin Page

Admin must fill their correct username and password to continue admin page. If either username or password is incorrect, the website will alert the user of the error message and require the user to retry.



Disaster Relief Dashboard Disaster Management Location Management Relief Resource Management Requests Management Volunteer Management Logout

Welcome, Admin SWAWS!

Role: Admin

Total Disasters 3	Total Resources 7	Pending Requests 0	Approved Volunteers 0
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3.2 Dashboard Admin Page

On this page, admin can choose Dashboard, Disaster Management, Location Management, Relief Resource Management, Request Management, Volunteer Management and Logout. Also, it will show the number of totals for each IDs.

Disaster Relief | Dashboard | Disaster Management | Location Management | Relief Resource Management | Requests Management | Volunteer Management | Logout

Disaster Management

Disaster Name:

Type:

Nearby Relief Center ID:

Description:

Severity:

[Add Disaster](#)

Disaster List

ID	Name	Type	Location	Severity	
23	Flood in Shah Alam	Flood	Kuala Lumpur	Moderate	View
24	Earthquake in Kuala Lumpur	Earthquake	Johor Bahru	Severe	View
25	Fire in Georgetown	Fire	Penang Island	Moderate	View

3.3 Disaster Management Page

This page let admin to add a new disaster on the list, they must fill in the Disaster Name, Type, Nearby Relief Center ID, Description, and Severity. When admin wants to edit the list, they can click on view button on the list they choose.

localhost:3000/DisasterRelief/ViewDisasterServlet?disasterID=23

Name: Flood in Shah Alam

Type: Flood

Location: Kuala Lumpur

Date: 2024-12-20 10:00:00.0

Description: Heavy rainfall caused widespread flooding in Shah Alam.

Severity: Moderate

Name:

Type:

Location:

Date:

Description:

Severity:

[Update](#) [Delete](#) [Back to Disaster List](#)

3.4 View Disaster Management Page

After admin click on the view button, they can update, delete and go back to Disaster List Page. When an admin wants to update, they need to fill in Name, Type, Location, Date, Description, and Severity and click update button. Meanwhile, if admin wants to delete, they must click on delete button.

Location Management

Location Name:

Coordinate:

Population:

Relief Center:

[Add Location](#)

Location List

Location ID	Name	Coordinate	Population	Relief Center	Actions
1	Kuala Lumpur	3.1390, 101.6869	1800000	KL Relief Center	View
2	Johor Bahru	1.4927, 103.7414	500000	JB Disaster Response Hub	View
3	Penang Island	5.4141, 100.3288	750000	Penang Emergency Shelter	View
4	Kuantan	3.8077, 103.3260	450000	Kuantan Flood Relief Center	View
8	Penang Island	5.4141, 100.3288	750000	Penang Emergency Shelter	View
10	Kota Bharu	6.1254, 102.2381	600000	KB Disaster Aid Center	View

3.5 Location Management Page

On this page, admin can add a new relief center location by fill in Location Name, Coordinate, Population, and Relief Center and click on add location button. If admin wants to view, edit and delete the list added, they can click on view button.

Location Details

Name: Kuala Lumpur

Coordinate: 3.1390, 101.6869

Population: 1800000

Relief Center: KL Relief Center

Name:

Coordinate:

Population:

Relief Center:

[Update](#) [Delete](#) [Back to Location List](#)

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3.6 View Location Management Page

After admin click on view button, they can update the list by fill in Name, Coordinate, Population, and Relief Center and click on update button. And if they want to delete the list, just click on delete button.

Disaster Relief
Dashboard
Disaster Management
Location Management
Relief Resource Management
Requests Management
Volunteer Management
Logout

Resource Management

Resource Name:

Resource Type:

Food

Resource Status:

Available

Location ID:

Resource Quantity:

Add Resource

Resource List

Resource ID	Name	Type	Status	Location ID	Quantity	Last Updated	Actions
1	makanan1	Food	Available	1	100	2025-02-05 22:20:20	View
17	Rice	Food	Available	1	100	2025-02-09 13:38:05	View
18	Water	Food	Available	2	200	2025-02-09 13:38:05	View
19	Medical Kit	Medical	Available	3	50	2025-02-09 13:38:05	View

3.7 Resource Management Page

This page allows user to add a new resource list by fill in Resource Name, Type, Status, Location ID, and Quantity. Admin also can click on view page to update or delete the list added.

localhost:3030/DisasterRelief/ReliefResourceController/resourceId=17&action=view

Resource ID: 17

Name: Rice

Type: Food

Status: Available

Location ID: 1

Quantity: 100

Last Updated: 2025-02-09 13:38:05

Resource Name:

Rice

Type:

Food

Status:

Available

Location ID:

1

Quantity:

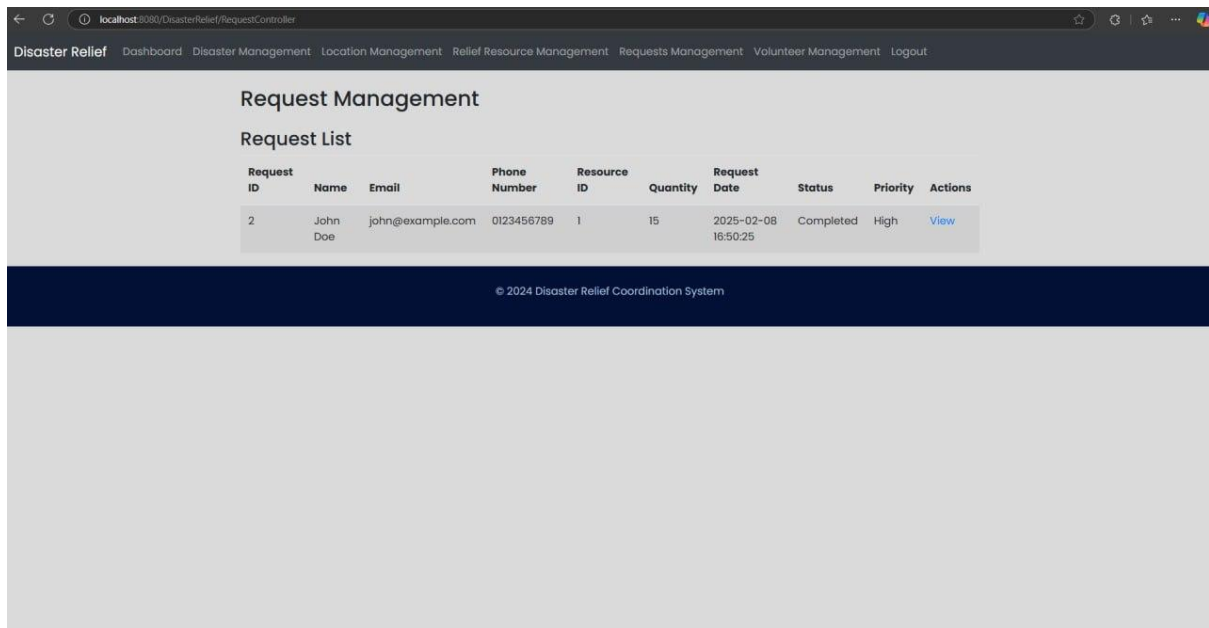
100

Update

Delete Back to Resource List

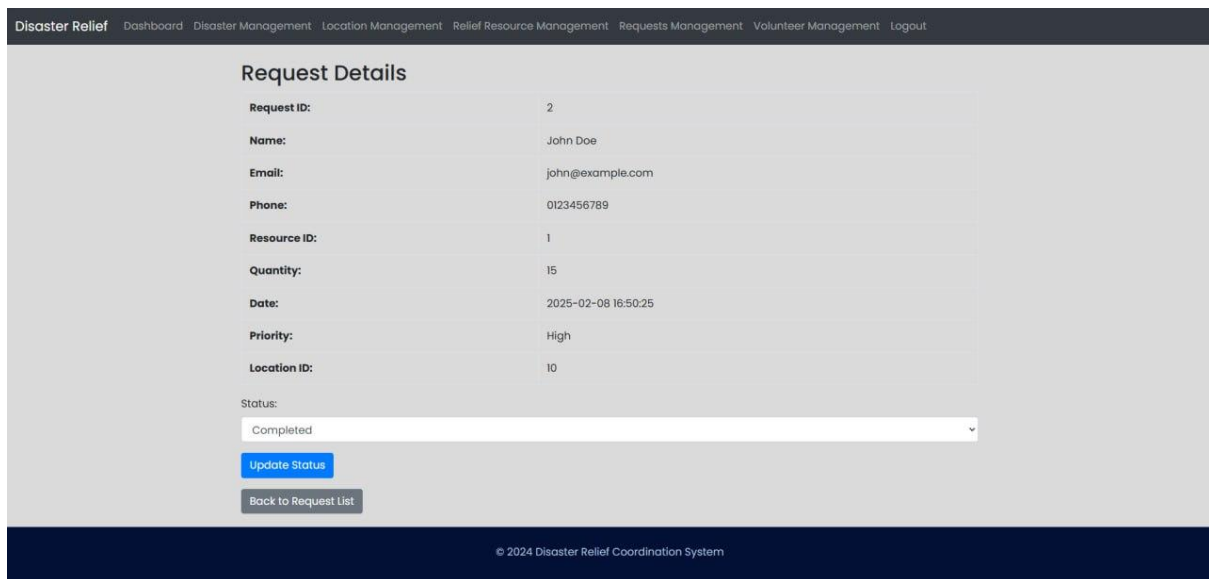
3.8 View Resource Management Page

After admin click on the view button, admin can update the list by fill in Resource Name, Type, Status, Location ID, and Quantity. But if they decide to delete, just click on delete button.



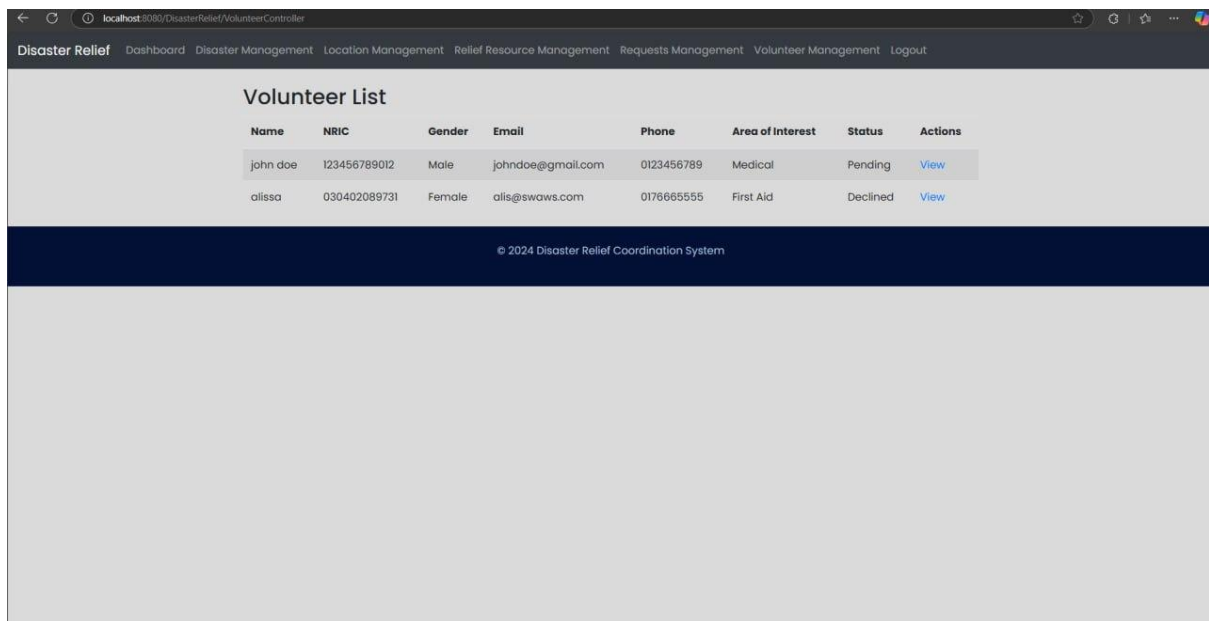
3.9 Request Management Page

This page allows admin to see the request list such as Request ID, Name, Email, Phone Number, Resource ID, Status, and Priority and click on view button to update the status.



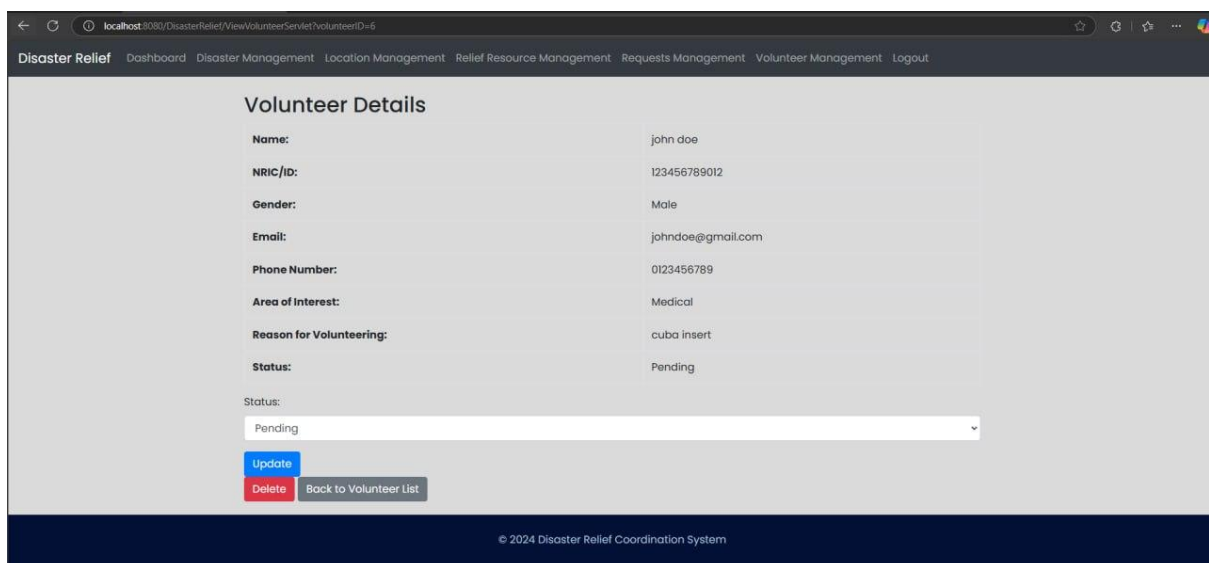
3.10 View Request Management Page

After admin click on view button, they can update the status of the request.



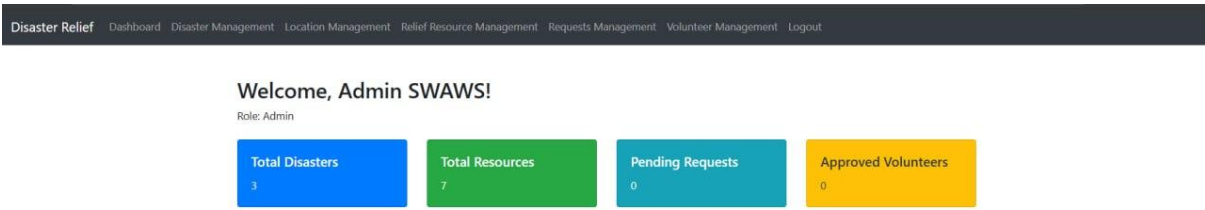
3.11 Volunteer Management Page

Admin can look at volunteer list after users fill in to join. Admin can look at the Name, NRIC, Gender, Email, Area of Interest and Status. They can click on the view button to update the list.



3.12 View Volunteer Management Page

After admin click on view button, they can update the status or delete it.



3.13 Log out Page

When admin finished with their task, they can log out by clicking logout button above and redirecting to login page.