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UNIVERSITI
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UNIVERSITI TEKNOLOGI MARA (UiTM)

SHAH ALAM

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

**CS253 – BACHELOR OF COMPUTER SCIENCE (Hons.) MULTIMEDIA
COMPUTING**

CSC584- ENTERPRISE PROGRAMMING

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GROUP PROJECT : DISASTER RELIEF SUPPLY MANAGEMENT SYSTEM

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1.0 INTRODUCTION

Effective disaster relief hinges on the swift and efficient management of essential supplies. Current methods often struggle with visibility, communication, and resource allocation, leading to critical delays and inefficiencies. Disaster Relief Supply Management System is a comprehensive platform designed to revolutionize the supply chain for humanitarian aid. It aims to achieve this by leveraging technology to enhance coordination, data accuracy, and predictive capabilities, from the initial procurement of supplies all the way through to their distribution. Our ultimate goal is to significantly improve the speed, transparency, and effectiveness of humanitarian aid efforts, ensuring that help reaches those in need more reliably.

2.0 PROBLEM STATEMENT

Current disaster relief supply management is severely hampered by a lack of real-time visibility for supply products, inefficient coordination among aid organizations, and inaccurate needs assessments. These issues, compounded by bottlenecks in supply movement for product whereabouts, lead to critical delays and wasted resources. An urgent need exists for a more integrated and transparent system to ensure timely and effective aid provision, particularly in vulnerable regions like Shah Alam, Selangor, Malaysia, which are susceptible to various natural hazards.

3.0 Objectives

This project aims to develop a Disaster Relief Supply Management System with the following key objectives:

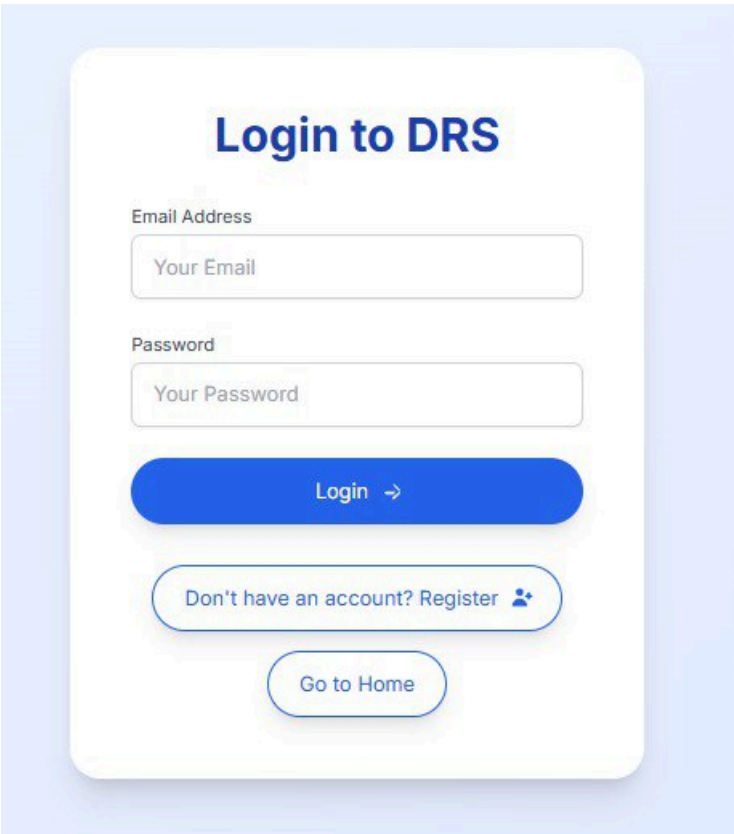
- To provide real-time visibility into the location and quantity of all relief supply products.
- To establish a centralized platform for improved coordination and communication among all disaster relief stakeholders regarding supply product management.
- To enable accurate and dynamic needs assessment and demand forecasting through data analysis, ensuring the right supply products are available.
- To optimize the movement of supply products to overcome bottlenecks and ensure timely provision to affected areas.
- To minimize waste and optimize resource utilization by preventing spoilage, duplication, and misdirection of aid products.

4.0 USER MANUAL

4.1 System Overview



4.2 Getting Started



Register for DRSMS

Email Address

Password

Register

Back to Login

4.3 Key Features and Functions

4.3.1 Inventory Management

Relief System

Dashboard

Add Supply

View Inventory

Reports

Used Stock

Admin Panel

Logout

Dashboard

Dashboard

Welcome! Use the sidebar to manage supplies.

Total Registered Users

4

Total Supplies In Inventory

15

Recent Activities (Last 5 Additions)

- Pillow - 50 units on 2025-07-09
- Blanket - 20 units on 2025-07-09
- SHIRT - 100 units on 2025-07-09
- SHIRT - 100 units on 2025-07-09
- SHIRT - 100 units on 2025-07-09

Low Stock Alert

- SHIRT has only 10 units left
- Blanket has only 0 units left
- Pillow has only 5 units left

Relief System

Dashboard

Add Supply

View Inventory

Reports

Used Stock

Admin Panel

Logout

Add Supply

Add New Supply

Supply Name

Quantity

Back

Add Supply

Relief System

Dashboard

Add Supply

View Inventory

Reports

Used Stock

Admin Panel

Logout

View Inventory

Current Inventory

#	SUPPLY NAME	QUANTITY	ACTION
1	SHIRT	10	Delete
2	Blanket	0	Delete
3	Pillow	5	Delete

4.3.2 Logistic & Tracking

Relief System

Dashboard

Add Supply

View Inventory

Reports

Used Stock

Admin Panel

Logout

Used Stock

Add Used Stock

Supply Name

Quantity Used

Date Used

mm/dd/yyyy

Location

Back

Add Used Stock

Relief System

Dashboard

Add Supply

View Inventory

Reports

Used Stock

Admin Panel

Logout

Report

Add Supplies

NAME	QUANTITY	DATE ADDED	ACTION
Food	200	2025-07-28	Delete
Food	200	2025-07-25	Delete
ShIRT	1000	2025-07-26	Delete
LAPTOP	50	2025-07-26	Delete
ShIRT	50	2025-07-26	Delete
ShIRT	100	2025-07-28	Delete
ShIRT	100	2025-07-29	Delete
ShIRT	100	2025-07-29	Delete
Blanket	20	2024-07-28	Delete
Phone	50	2025-07-28	Delete

Add

Used Stock

NAME	QUANTITY	DATE USED	LOCATION
ShIRT	240	2025-07-09	Suhang Hua
Phone	45	2025-07-09	PuHuaLuo
Blanket	20	2025-07-09	Kuang
ShIRT	100	2025-07-09	Shan Xian

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5.0 Conclusion

In conclusion, the development of this Disaster Relief Supply Management System represents a crucial step towards revolutionizing humanitarian aid operations. By directly addressing the critical challenges of lack of real-time visibility, inefficient coordination, inaccurate needs assessments, logistical bottlenecks, and a lack of accountability, this project offers a robust and integrated solution. The proposed system, designed with a focus on enhancing efficiency, transparency, and data-driven decision-making, will enable more effective delivery of essential relief supplies to affected populations. Ultimately, this initiative is poised to significantly improve the overall responsiveness and impact of disaster relief efforts, ensuring that aid reaches those who need it most, when they need it most, and with greater accountability.