UNIVERSITI TEKNOLOGI MARA (UiTM)

SHAH ALAM

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

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

CSC584- ENTERPRISE PROGRAMMING

PREPARE FOR: SIR MUHAMAD RIDHWAN MOHAMAD RAZALI

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

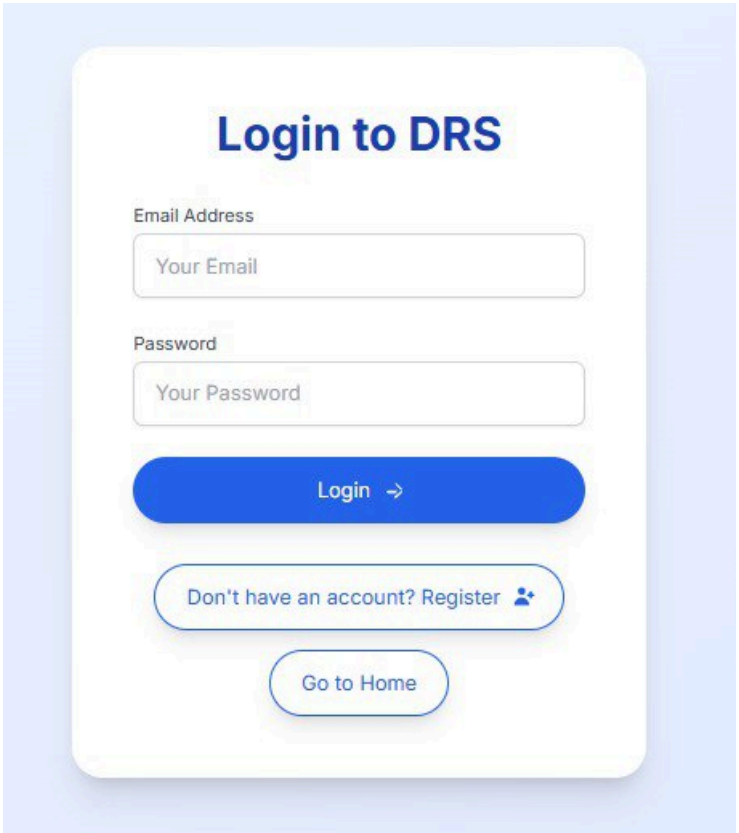
This project aims to develop a Disaster Relief Supply Management System with the following key objectives:

- 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

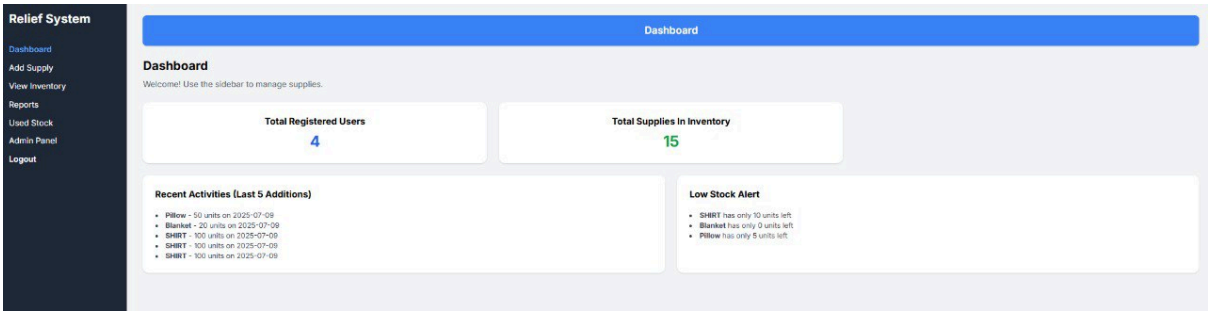
4.1 System Overview

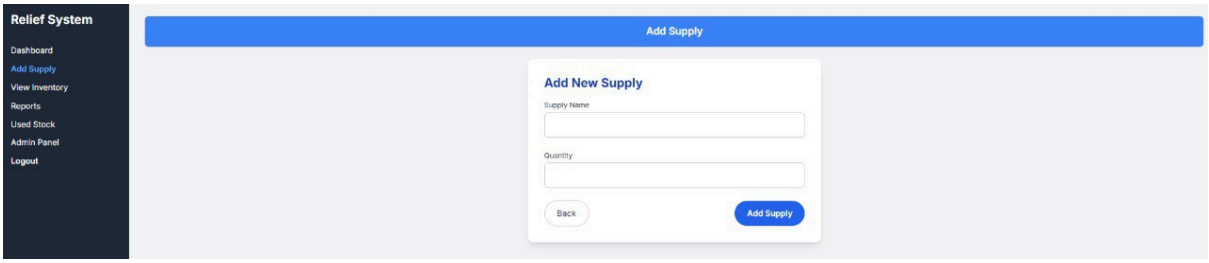
4.2 Getting Started

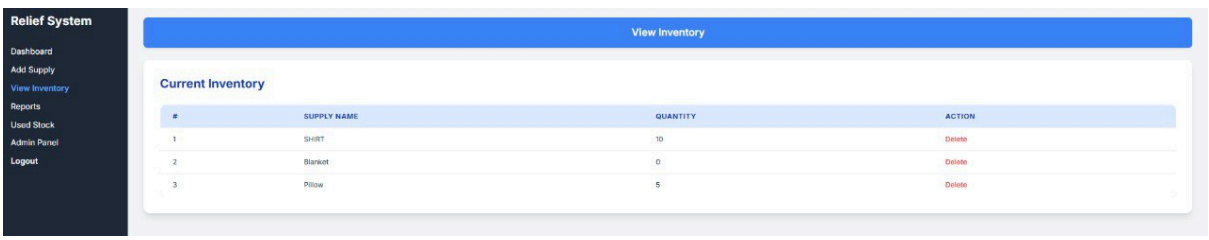


4.3 Key Features and Functions

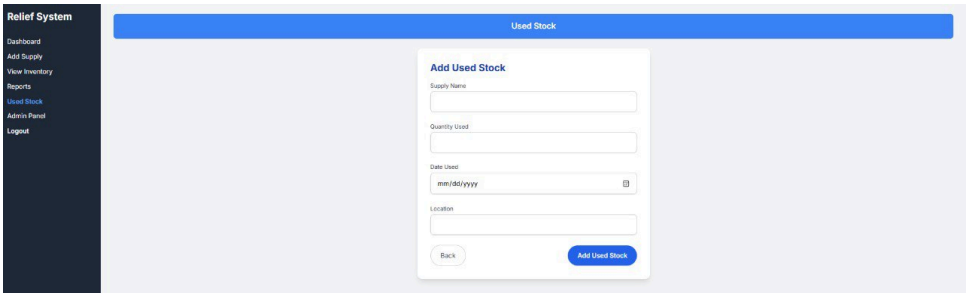
4.3.1 Inventory Management

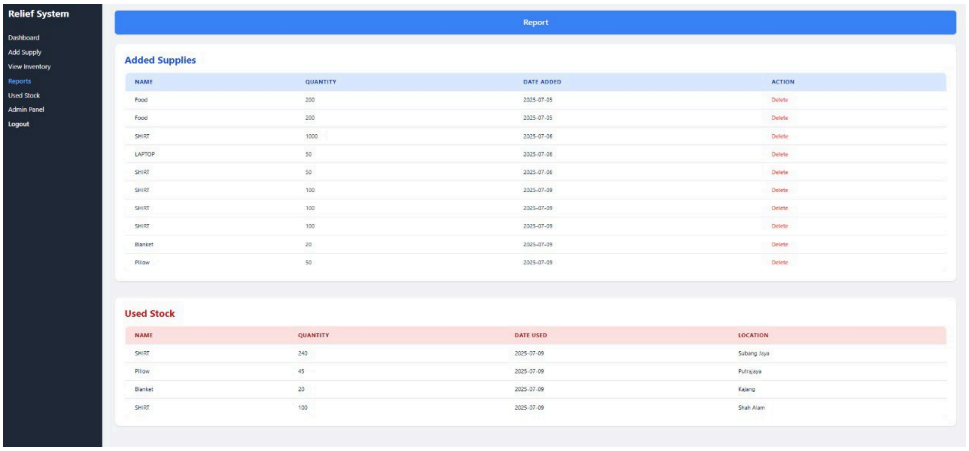






4.3.2 Logistic & Tracking





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.