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UNIVERSITI
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Emergency Shelter Supplies Ordering & Booking via E-Commerce Platform

CSC584 Enterprise Programming

Bachelor of Computer Science (Hons.) Multimedia Computing

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1. INTRODUCTION

During times of natural disasters, humanitarian crises, or sudden emergencies, timely access to adequate shelter supplies is critical for saving lives and supporting recovery efforts. Essential items such as tents, blankets, portable beds, and hygiene kits help protect affected communities, provide comfort, and restore dignity in challenging circumstances. However, traditional supply chains and manual procurement methods often struggle to respond quickly enough, leading to delays, shortages, and increased risks for vulnerable populations.

To address these challenges, the Emergency Shelter Supplies Ordering & Booking via E-Commerce Platform has been developed as an innovative web-based solution. This platform leverages modern e-commerce technology to simplify and accelerate the sourcing, ordering, and booking of critical shelter supplies. Through an intuitive and user-friendly interface, it enables real-time inventory tracking, streamlined order placement, and secure payment processing, ensuring that essential supplies can be delivered promptly and efficiently.

Designed as a centralized hub, the platform connects key stakeholders—including suppliers, government agencies, non-governmental organizations (NGOs), community-based groups, and individual users—allowing them to collaborate seamlessly. By facilitating advance booking and transparent order management, it not only improves disaster preparedness but also minimizes manual coordination and administrative bottlenecks. In doing so, this system aims to strengthen the overall effectiveness and responsiveness of emergency relief operations, ensuring that critical resources reach those in need without delay.

2. OBJECTIVES

The main objectives of the Emergency Shelter Supplies Ordering & Booking via E-Commerce Platform are outlined below:

1. **Streamline Procurement Processes**
To centralize and simplify the procurement of emergency shelter supplies through a user-friendly online platform, reducing complexity and improving operational efficiency.
2. **Enhance Accessibility and Transparency**
To provide real-time visibility into inventory levels and enable users to track orders, ensuring transparency across the entire supply chain.
3. **Facilitate Rapid Emergency Response**
To accelerate the ordering and delivery process during critical situations by minimizing manual coordination, paperwork, and administrative delays.
4. **Support Diverse User Groups**
To accommodate the needs of various stakeholders—including NGOs, government agencies, community organizations, and individual users—in efficiently placing, managing, and monitoring orders.
5. **Ensure Secure Transactions**
To integrate trusted payment gateways and robust order confirmation systems, safeguarding user data and ensuring the reliability of financial transactions.
6. **Strengthen Disaster Preparedness**
To enable the pre-booking and reservation of essential shelter supplies, thereby enhancing readiness for future emergencies and reducing the impact of unexpected crises.

3. SYSTEM REQUIREMENTS

The development of the **Emergency Shelter Supplies Ordering & Booking via E-Commerce Platform** must adhere to the following core requirements, which have been defined based on the company's operational and functional needs. The web application is required to implement at least four (4) primary modules, as detailed below:

1. Login/Logout Module

- Implement secure session management to enable users to log in and log out of the system safely.
- Ensure that only authenticated users can access restricted areas and features of the platform.

2. Registration with Validation

- Provide a registration interface for new users to create an account on the platform.
- Incorporate input validation mechanisms to ensure data integrity, such as validating username, password strength and checking for duplicate usernames.

3. Information Management (Create / Read / Update / Delete - CRUD)

- Allow users and admin to manage relevant data stored in the database.
- Enable the creation of new records, viewing existing data, updating details as needed, and deleting outdated or incorrect information.
- Ensure that data manipulation is performed securely and efficiently, with appropriate user permissions.

4. Dashboard

- Design and implement a dashboard to provide users with an overview of key processes and data.
- Include visual representations such as tables, or summaries to present information like inventory levels, recent orders, and user activity.
- Ensure the dashboard is user-friendly and provides quick insights to support decision-making.

These requirements aim to ensure that the developed web application is secure, functional, and capable of supporting effective management and coordination of emergency shelter supplies.

4. TARGET USERS

The Emergency Shelter Supplies Ordering & Booking via E-Commerce Platform is designed to serve a diverse group of users who play key roles in disaster preparedness, response, and recovery. The primary target users include the following:

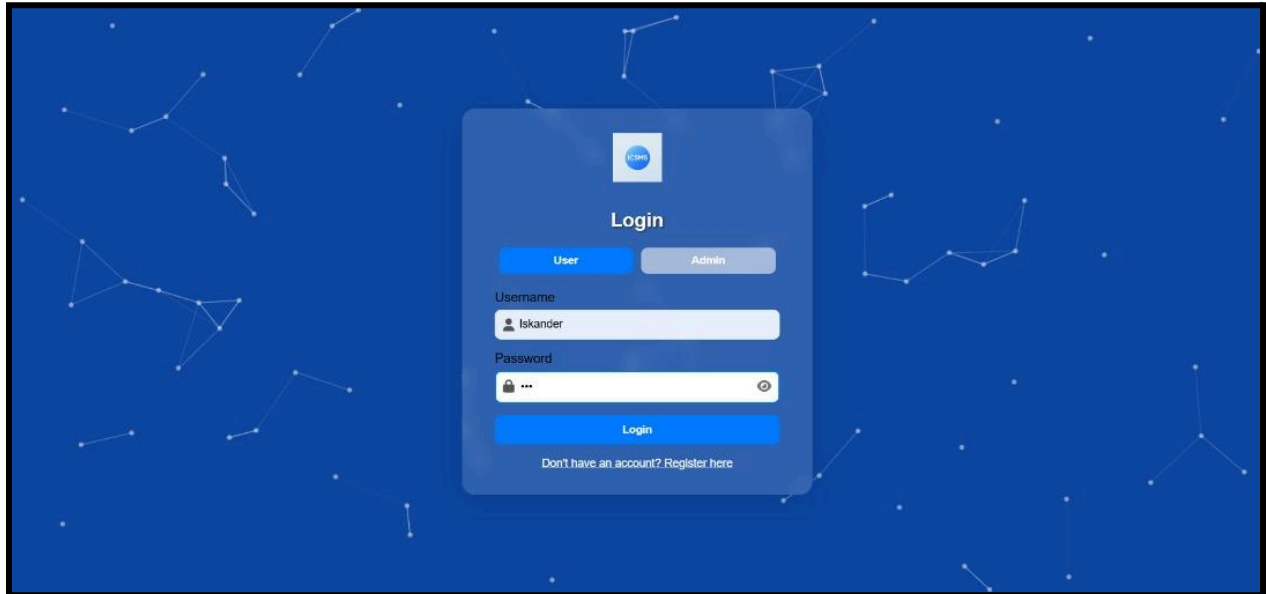
1. **Non-Governmental Organizations (NGOs)**
Relief agencies and humanitarian organizations that actively procure, manage, and distribute essential shelter supplies to communities affected by natural disasters and emergencies.
2. **Government Agencies**
National and local disaster management authorities responsible for coordinating emergency response operations, allocating resources, and ensuring timely delivery of shelter supplies to affected areas.
3. **Community-Based Organizations**
Local volunteer teams, neighborhood committees, and grassroots groups that organize and deliver support directly to residents impacted by disasters.
4. **Emergency Shelter Suppliers & Vendors**
Manufacturers, wholesalers, and retailers of shelter-related products who require an efficient and transparent digital platform to showcase their inventory and fulfill urgent orders.
5. **Individuals & Households**
Members of the general public who wish to proactively purchase or pre-book emergency shelter supplies for personal preparedness and family safety during unforeseen crises.

By supporting these user groups, the platform aims to create an integrated and coordinated approach to emergency supply management, ensuring that life-saving resources can be sourced, ordered, and delivered effectively when they are needed most.

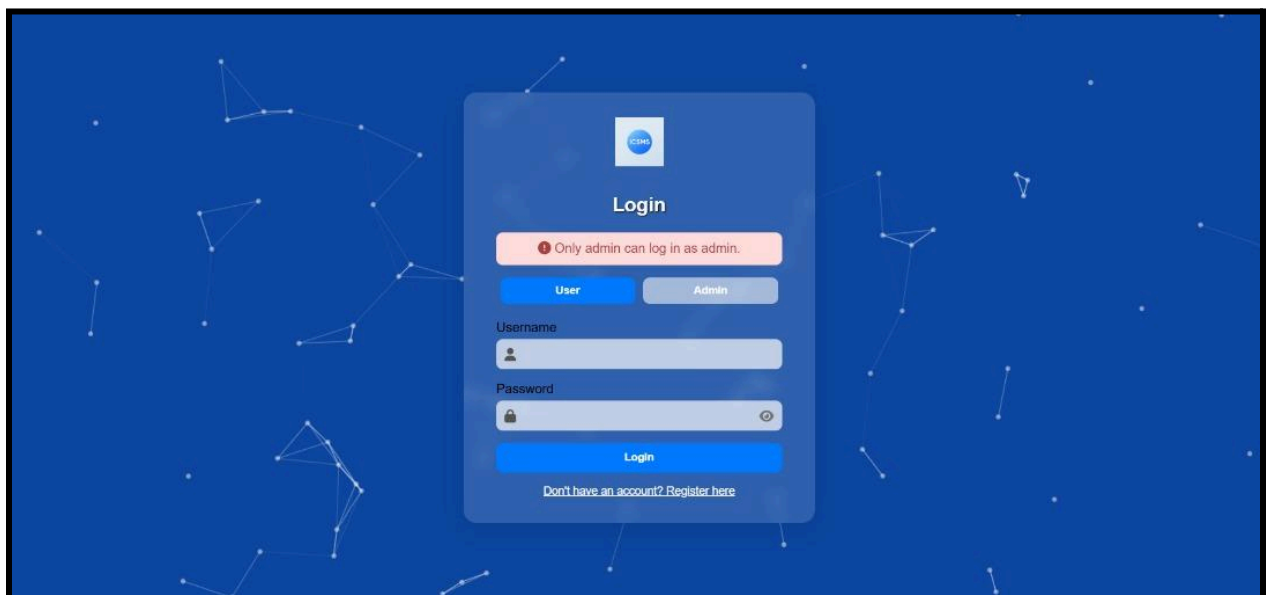
5. USER MANUAL

5.1 USER

Login Page

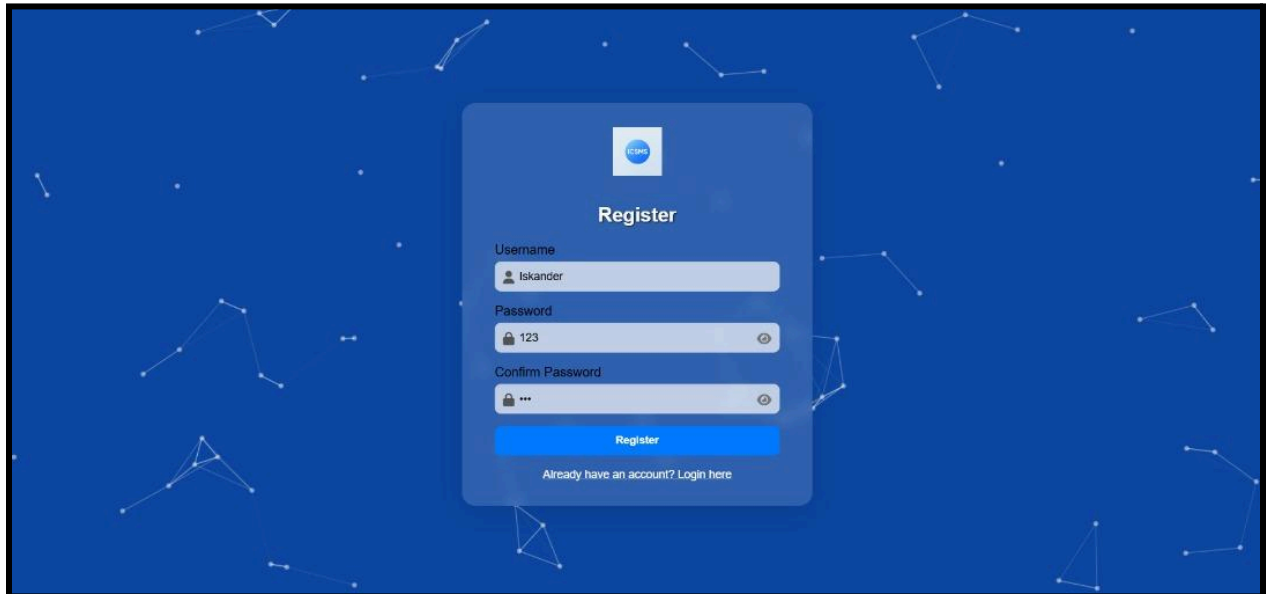


First, users need to enter their credentials such as username and password. If they are a new user of the system, users need to click on the link "Don't have an account? Register here" to register.



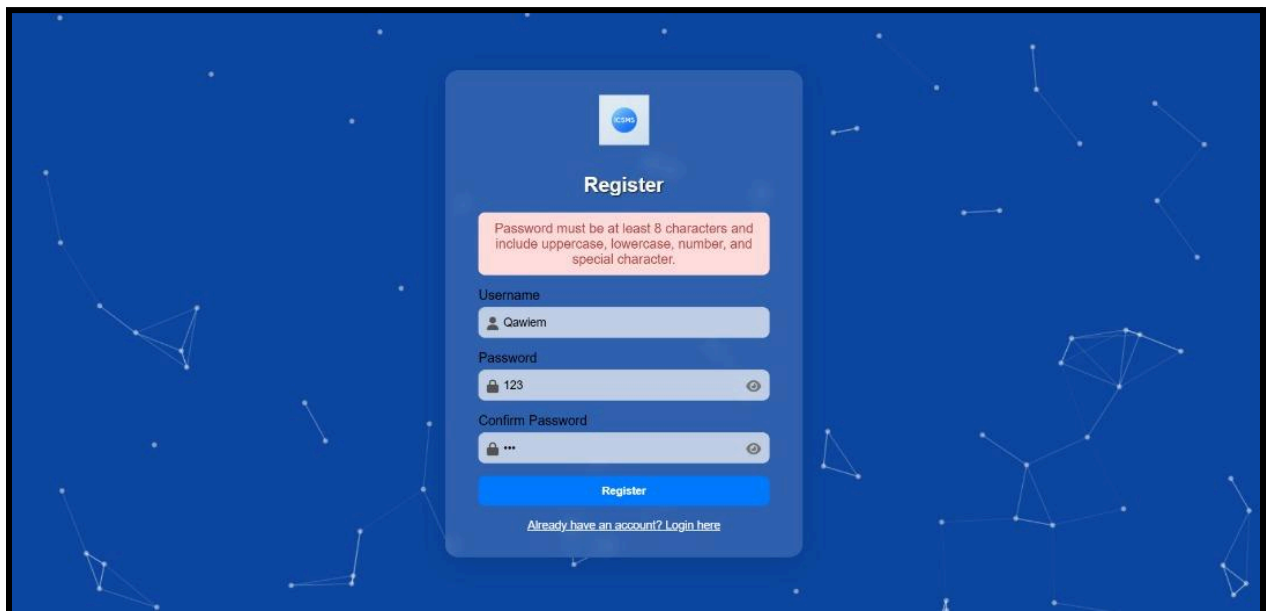
If a user clicks on the admin button, they can't access the admin page. Only admin with the admin credentials can access it. The message will show "Only admin can log in as admin".

Registration Page



The registration form is displayed on a dark blue background with a constellation pattern. The form is a light blue rounded rectangle with the title "Register" and a logo at the top. It contains three input fields: "Username" with the value "Iskander", "Password" with the value "123", and "Confirm Password" with masked characters. A blue "Register" button is at the bottom, and a link "Already have an account? Login here" is below it.

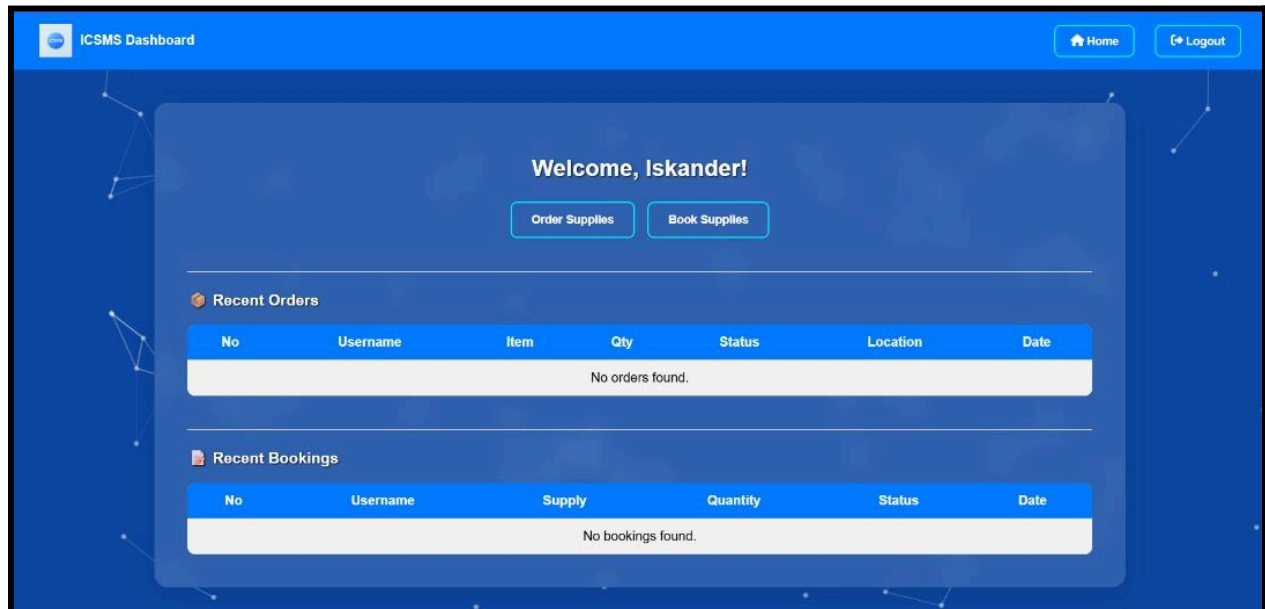
To register a new account, users need to enter their username, password and confirm the password. After that, the user needs to click on the 'Register' button.



The registration form is shown with a validation error. A red message box at the top states: "Password must be at least 8 characters and include uppercase, lowercase, number, and special character." The "Username" field now contains "Qawlem", while "Password" and "Confirm Password" remain "123". The "Register" button and the "Login here" link are still present at the bottom.

When the user tries to register, the user needs to fulfill the password requirement to complete the registration.

User Dashboard



After successfully login, the user will redirect to the user dashboard page with a welcoming message from the system. In this page, users can view the summary of recent orders and recent bookings. There will be buttons to go to other pages such as 'Order Supplies' and 'Book Supplies'.

User Order Supplies



In the order supplies, users can add a new order by providing details such as username, select items, quantity, status, location and order date.

User Order Supplies

The screenshot shows a form for adding a new order. It includes input fields for Quantity, Status (set to Pending), Location (Shelter A), and Order Date (11/07/2025). An 'Add Order' button is at the bottom of the form. Below the form is a table titled 'All Orders' showing the newly added order.

No	Username	Item	Qty	Status	Location	Date	Actions
1	Iskander	Medecine (29 a	10	Pending	Shelter A	11/07/2025	Update Delete

A 'Back to Dashboard' button is located below the table.

After successfully providing the details and clicking on the 'Add Order' button, the data will be displayed in table form. Users can update and delete orders they have added in the system.

User Dashboard

The screenshot shows the ICSMS Dashboard for user Iskander. It features a welcome message, buttons for 'Order Supplies' and 'Book Supplies', and two tables: 'Recent Orders' and 'Recent Bookings'.

Welcome, Iskander!

[Order Supplies](#) [Book Supplies](#)

Recent Orders

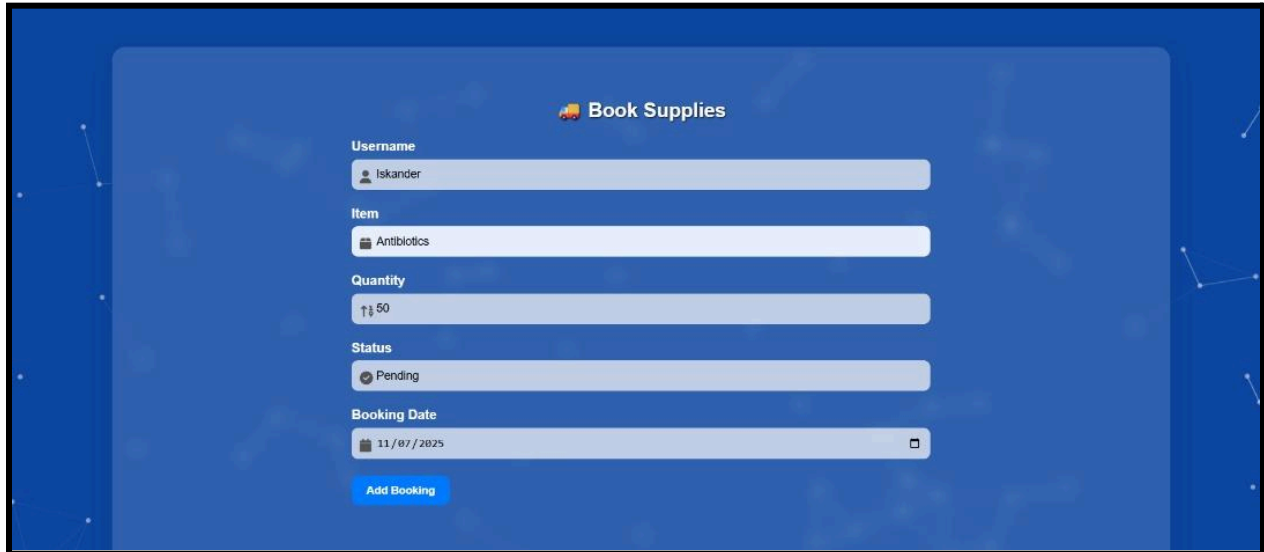
No	Username	Item	Qty	Status	Location	Date
1	Iskander	Medecine	10	Pending	Shelter A	2025-07-11

Recent Bookings

No	Username	Supply	Quantity	Status	Date
No bookings found.					

The new data added will also be displayed in the User Dashboard page. The details will be updated automatically after the user successfully adds a new order.

User Book Supplies



The screenshot shows a web application interface for adding a new booking. The title is 'Book Supplies' with a truck icon. The form contains several input fields: 'Username' with the value 'Iskander', 'Item' with the value 'Antibiotics', 'Quantity' with the value '50', 'Status' with the value 'Pending', and 'Booking Date' with the value '11/07/2025'. A blue 'Add Booking' button is at the bottom.

Book Supplies

Username: Iskander

Item: Antibiotics

Quantity: 50

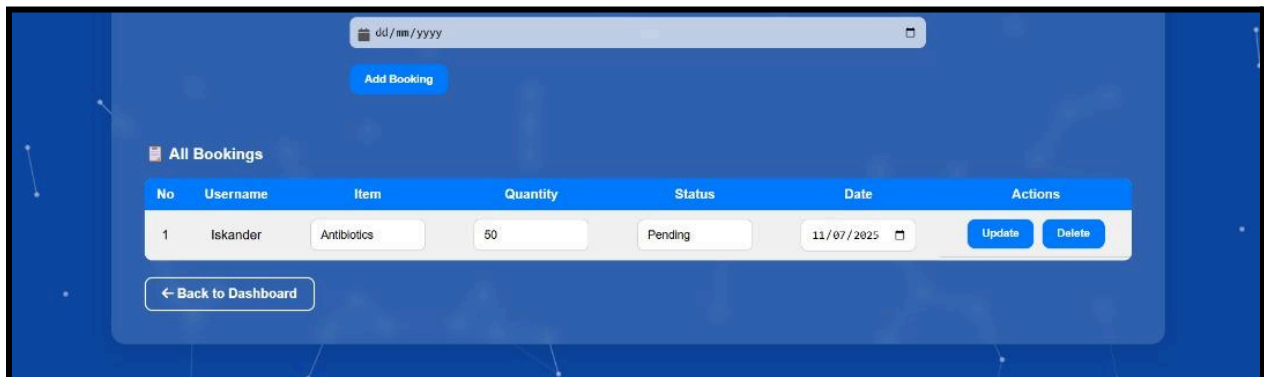
Status: Pending

Booking Date: 11/07/2025

Add Booking

From this page, users can add a new booking by providing details such as username, item, quantity, status and booking date.

User Book Supplies



The screenshot shows a web application interface displaying a table of all bookings. The table has columns for No, Username, Item, Quantity, Status, Date, and Actions. A single booking is listed with the following details: No. 1, Username Iskander, Item Antibiotics, Quantity 50, Status Pending, and Date 11/07/2025. The Actions column contains 'Update' and 'Delete' buttons. A 'Back to Dashboard' button is located below the table.

All Bookings

No	Username	Item	Quantity	Status	Date	Actions
1	Iskander	Antibiotics	50	Pending	11/07/2025	<button>Update</button> <button>Delete</button>

[← Back to Dashboard](#)

After successfully entering the details and clicking on the 'Add Booking' button, the data will be displayed in a table form. User only allow to update the item and quantity only

User Order and Book

The screenshot displays the ICSMS Dashboard for a user named Iskander. The dashboard includes a header with 'ICSMS Dashboard', 'Home', and 'Logout' links. The main content area features a welcome message, buttons for 'Order Supplies' and 'Book Supplies', and two tables: 'Recent Orders' and 'Recent Bookings'.

Welcome, Iskander!

[Order Supplies](#) [Book Supplies](#)

Recent Orders

No	Username	Item	Qty	Status	Location	Date
1	Iskander	Work Gloves & Goggles	2	null	Shelter A	2025-07-11

Recent Bookings

No	Username	Item	Quantity	Status	Date
1	Iskander	Antibiotics	50	Pending	2025-07-11

The new data added will be displayed in the User Dashboard page. The details will be updated automatically after the user successfully adds a new booking.

5.2 ADMIN

Admin Login

The screenshot shows the Admin Login form. It features a 'Login' title, a toggle for 'User' and 'Admin' (with 'Admin' selected), and input fields for 'Username' (containing 'admin') and 'Password' (masked with dots). A 'Login' button and a 'Register here' link are also present.

Login

[User](#) [Admin](#)

Username
admin

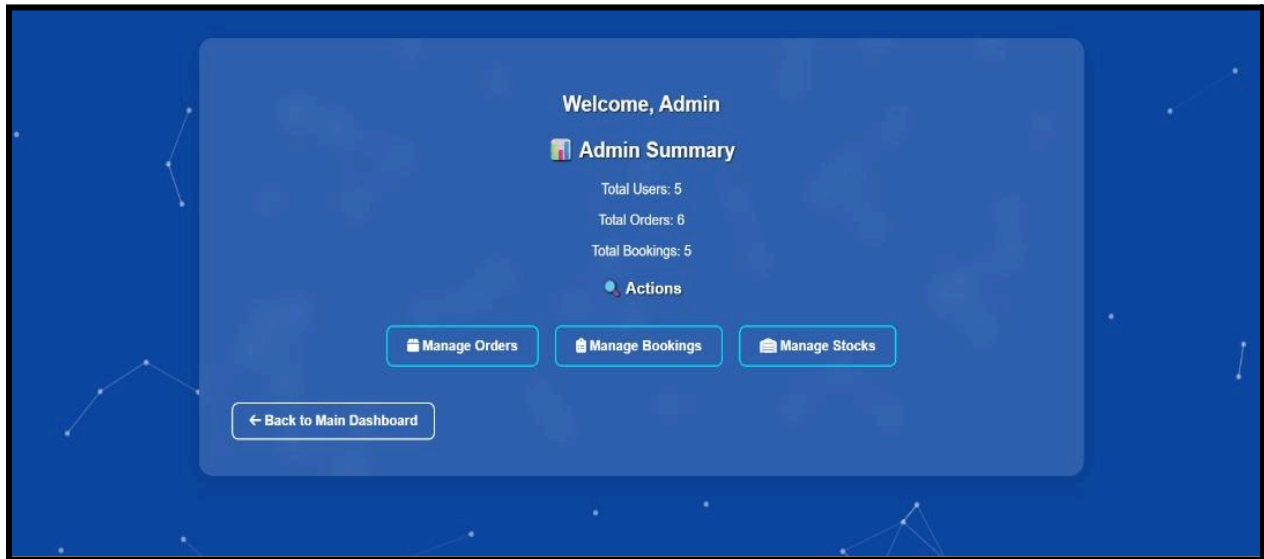
Password

[Login](#)

[Don't have an account? Register here](#)

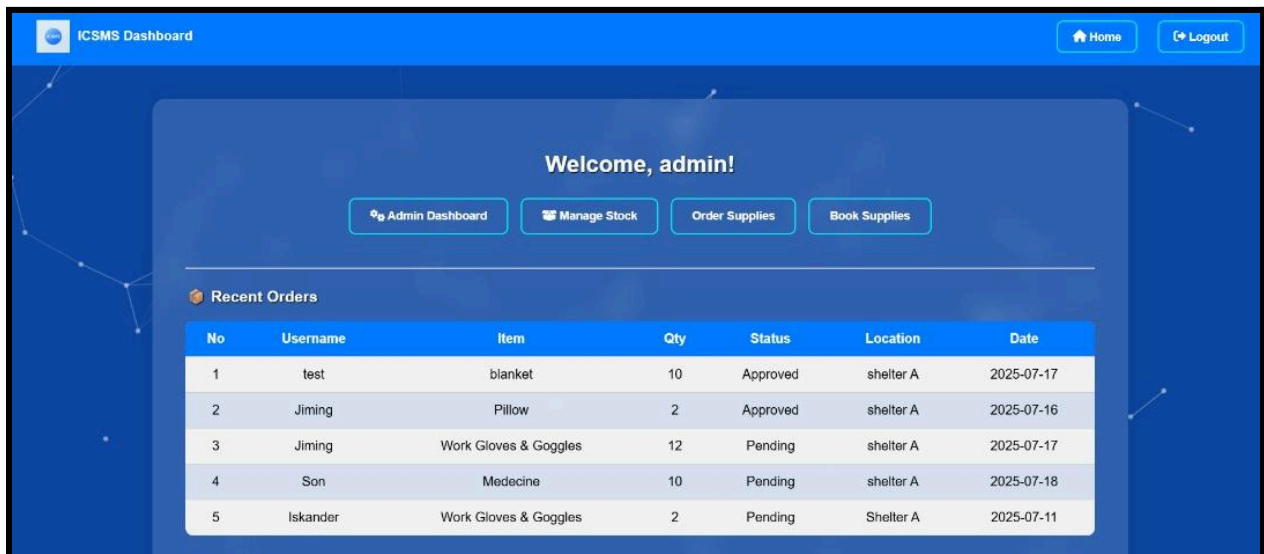
For admin login, admin needs to enter their admin credentials such as username and password. They only can log in with admin credentials.

Admin Dashboard



From this page, the admin can view the summary of the total users, total orders and total bookings. There will be buttons to go to other pages such as 'Manage Order', 'Manage Bookings', 'Manage Stocks' and 'Back to Main Dashboard'.

Main Admin Dashboard



In this page, admin can view recent orders from the user of the system. There will be buttons to go to other pages such as 'Admin Dashboard', 'Manage Stock', 'Order Supplies' and 'Book Supplies'.

Recent Bookings					
No	Username	Item	Quantity	Status	Date
1	Jiming	Aid kit	6	Approved	2025-07-10
2	Jiming	Aid kit	3	Pending	2025-07-25
3	test	Bed kit	4	Pending	2025-07-11
4	Jiming	Aid kit	44	Pending	2025-07-17
5	Son	Aid kit	33	Pending	2025-07-25
6	Iskander	Antibiotics	50	Pending	2025-07-11

From the 'Main Admin Dashboard' page, admin also can view recent bookings from the user of the system.

Admin Manage Order

Order Supplies							
All Orders							
No	Username	Item	Qty	Status	Location	Date	Actions
1	test	blanket (6 availa	10	Approved	shelter A	17/07/2025	Update Delete
2	Son	Pillow (3 availat	10	Pending	shelter A	11/07/2025	Update Delete
3	Jiming	Pillow (3 availat	2	Approved	shelter A	16/07/2025	Update Delete
4	Jiming	Work Gloves &	12	Pending	shelter A	17/07/2025	Update Delete
5	Son	Medecine (39 a	10	Pending	shelter A	18/07/2025	Update Delete
6	Iskander	Work Gloves &	2	Pending	Shelter A	11/07/2025	Update Delete

[← Back to Dashboard](#)

From this page, the admin can manage the order such as update the details of the order and delete the order from the system.

Admin Manage Book

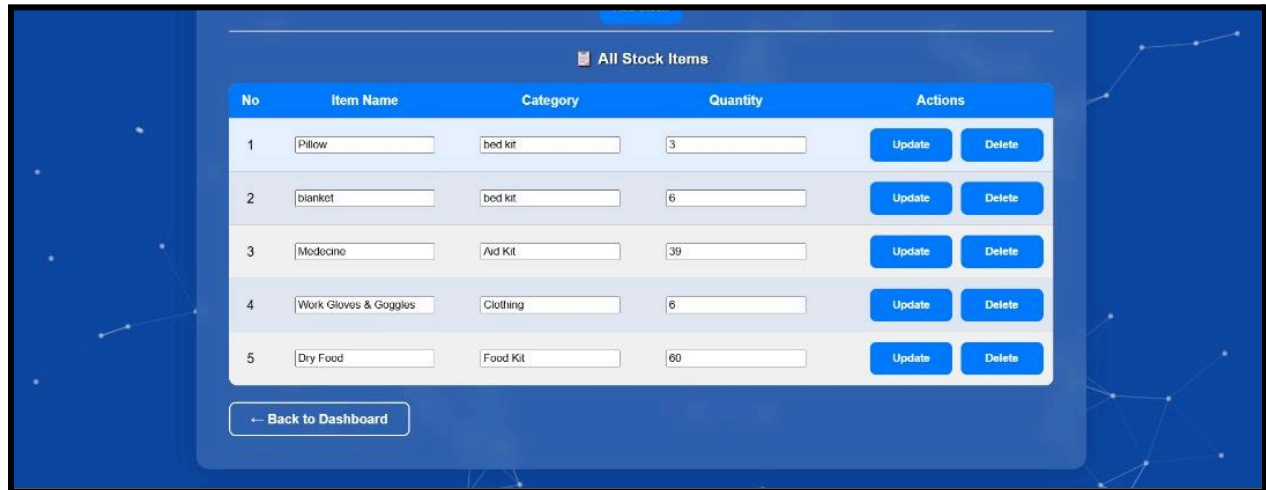
📦 Book Supplies						
📅 All Bookings						
No	Username	Item	Quantity	Status	Date	Actions
1	Jiming	Aid kit	6	Approved	10/07/2025	<button>Update</button> <button>Delete</button>
2	Jiming	Aid kit	3	Pending	25/07/2025	<button>Update</button> <button>Delete</button>
3	test	Bed kit	4	Pending	11/07/2025	<button>Update</button> <button>Delete</button>
4	Jiming	Aid kit	44	Pending	17/07/2025	<button>Update</button> <button>Delete</button>
5	Son	Aid kit	33	Pending	25/07/2025	<button>Update</button> <button>Delete</button>
6	Iskander	Antibiotics	50	Pending	11/07/2025	<button>Update</button> <button>Delete</button>

From this page, the admin can manage book supplies in the system. Admin can update the details and delete the bookings from the system.

Admin Stock Management

📦 Stock Management				
Item Name:	<input type="text" value="Dry Food"/>			
Category:	<input type="text" value="Food Kit"/>			
Quantity:	<input type="text" value="60"/>			
<button>Add Stock</button>				
📅 All Stock Items				
No	Item Name	Category	Quantity	Actions
1	<input type="text" value="Pillow"/>	<input type="text" value="bed kit"/>	<input type="text" value="3"/>	<button>Update</button> <button>Delete</button>
2	<input type="text" value="blanket"/>	<input type="text" value="bed kit"/>	<input type="text" value="6"/>	<button>Update</button> <button>Delete</button>
3	<input type="text" value="Medecine"/>	<input type="text" value="Aid Kit"/>	<input type="text" value="39"/>	<button>Update</button> <button>Delete</button>
4	<input type="text" value="Work Gloves & Goggles"/>	<input type="text" value="Clothing"/>	<input type="text" value="6"/>	<button>Update</button> <button>Delete</button>

From this page, admin can add new stock items by entering details such as item name, category and quantity. After successfully providing the details and clicking on the 'Add Stock' button, the data will be displayed in table form.



The screenshot displays a web interface for managing stock items. At the top, there is a header bar with a blue gradient and a white icon of a document with a checkmark, followed by the text "All Stock Items". Below this is a table with five columns: "No", "Item Name", "Category", "Quantity", and "Actions". The table contains five rows of data. Each row has a blue "Update" button and a blue "Delete" button in the "Actions" column. At the bottom of the table, there is a blue button labeled "← Back to Dashboard".

No	Item Name	Category	Quantity	Actions
1	Pillow	bed kit	3	Update Delete
2	blanket	bed kit	6	Update Delete
3	Medicine	Aid Kit	39	Update Delete
4	Work Gloves & Goggles	Clothing	6	Update Delete
5	Dry Food	Food Kit	60	Update Delete

[← Back to Dashboard](#)

Admin can update the details and delete the stock item from the system.