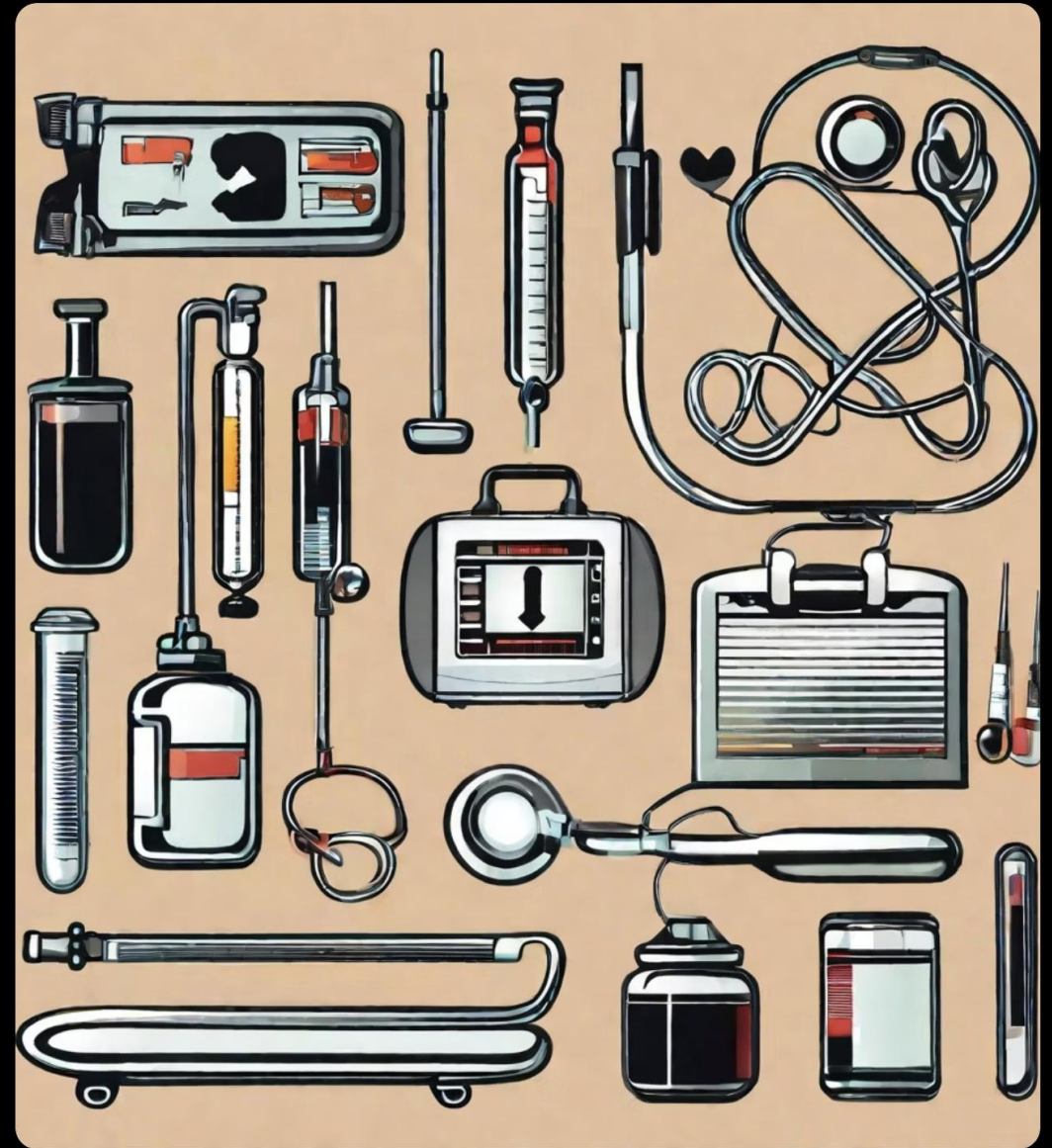


Medical Supply Management



Introduction

The Medical Supply Management project is an online store designed to efficiently manage medical supplies. Built using Python-Django, this project aims to streamline the process of ordering, tracking, and managing medical supplies for healthcare organizations.



Database Design

The database schema for the Medical Supply Management project consists of several tables and relationships that help organize and manage the data effectively. The following are the main entities and their attributes in the database schema:

1. Contact

- name(primary key)
- email
- phoneno
- desc

2. Medicines

- medicine_name
- medicine_description
- medicine_price
- medicine_exp

3. MyOrders

- name
- email
- items
- address
- quantity
- price
- phone_num
- delivery

4.DeliveredOrders

- order
- delivery_date

5.Product_items

- product_name
- product_description
- product_price
- product_exp

Product Catalog

In the Medical Supply Management project, the product catalog contains a wide range of medical supplies and equipment.

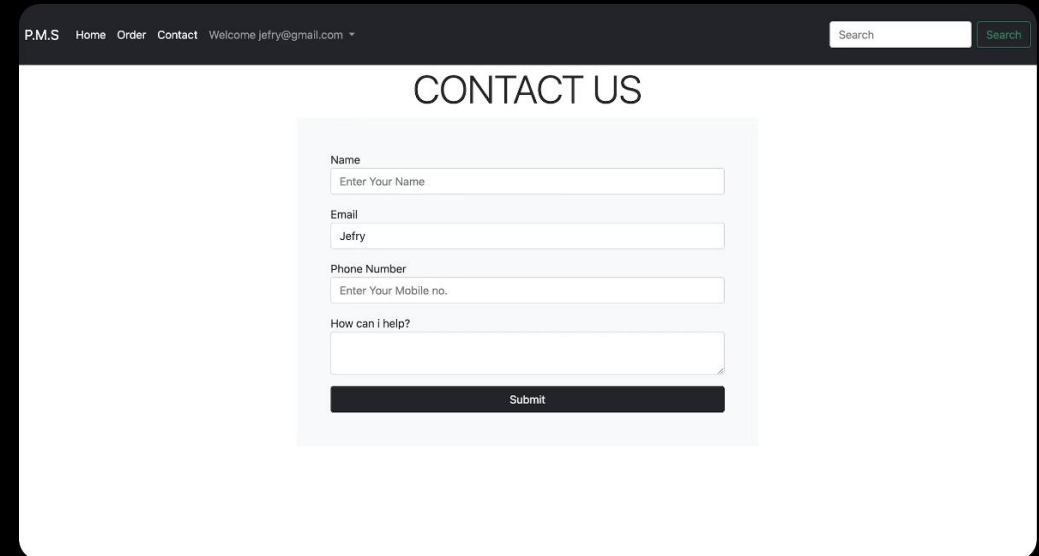
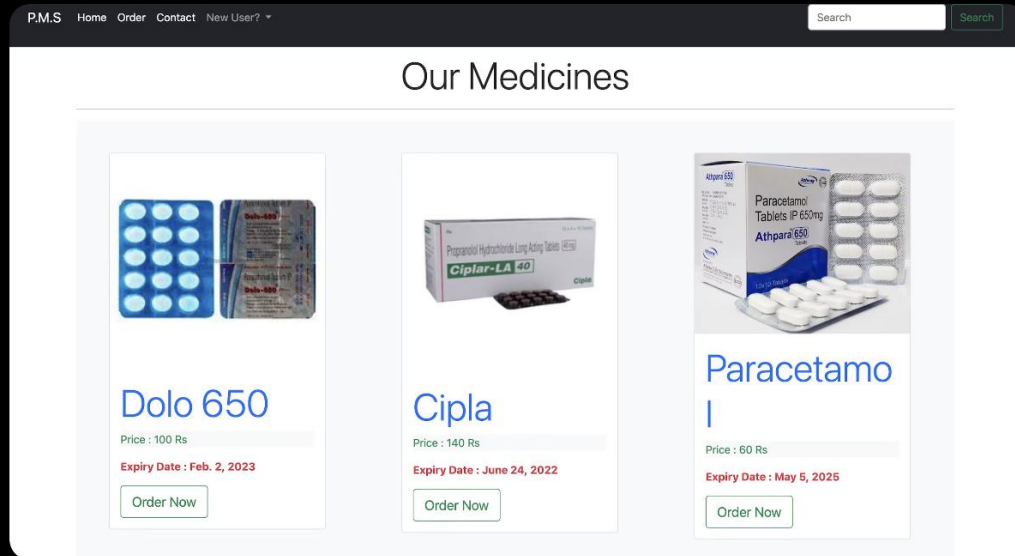


Categories

The product catalog is organized into various categories to make it easier for users to find the items they need. Some of the categories include:

- Personal Protective Equipment (PPE)
- Medicines
- Pharmaceuticals

User Interface



Design and Layout

The user interface of the Medical Supply Management project features a clean and minimalistic design. The layout is designed to be intuitive and user-friendly, allowing users to easily navigate through the system.

Features and Functionalities

- Inventory management: Users can view and manage the inventory of medical supplies.
- Order management: Users can place orders for medical supplies and track their status.
- User management: Administrators can manage user accounts and assign roles and permissions.

Order Management

Placing Orders

1. Customers can place orders through the online portal or by contacting the customer service team.
2. The online portal allows customers to browse available products, select quantities, and add them to their cart.
3. Customers can review their order details, apply any applicable discounts or coupons, and proceed to checkout.

Managing Orders

1. Once an order is placed, it is assigned a unique order number for tracking purposes.
2. The order management system keeps track of the order status, including processing, packaging, and shipping stages.
3. Customers can log in to their account to view the status of their orders and track the shipment if applicable.

Payment Options

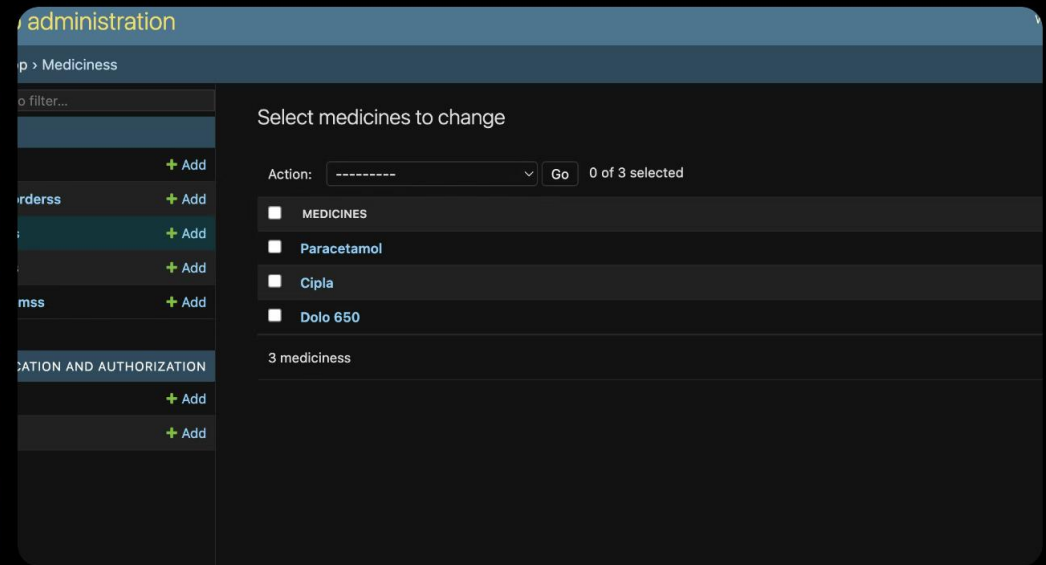
1. Customers can choose from various payment options, including credit/debit card, bank transfer, or cash on delivery.
2. Secure online payment gateways are integrated to ensure the safety of customer's financial information.

Inventory Management

In the Medical Supply Management project, inventory management plays a crucial role in ensuring the availability of medical supplies and tracking their usage.

Inventory Management

In the Medical Supply Management project, inventory management plays a crucial role in ensuring the availability of medical supplies and tracking their usage.



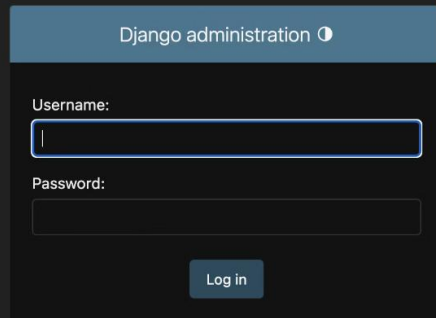
Managing Stock Levels	Replenishment Process
The inventory management system keeps track of the stock levels for each medical supply item. It monitors the quantity of each item in stock and alerts the staff when the stock levels fall below a certain threshold.	When the stock levels of a medical supply item reach the threshold, the inventory management system triggers the replenishment process. This process involves placing orders with suppliers to restock the inventory.

Managing Stock Levels	Replenishment Process
The inventory management system keeps track of the stock levels for each medical supply item. It monitors the quantity of each item in stock and alerts the staff when the stock levels fall below a certain threshold.	When the stock levels of a medical supply item reach the threshold, the inventory management system triggers the replenishment process. This process involves placing orders with suppliers to restock the inventory.

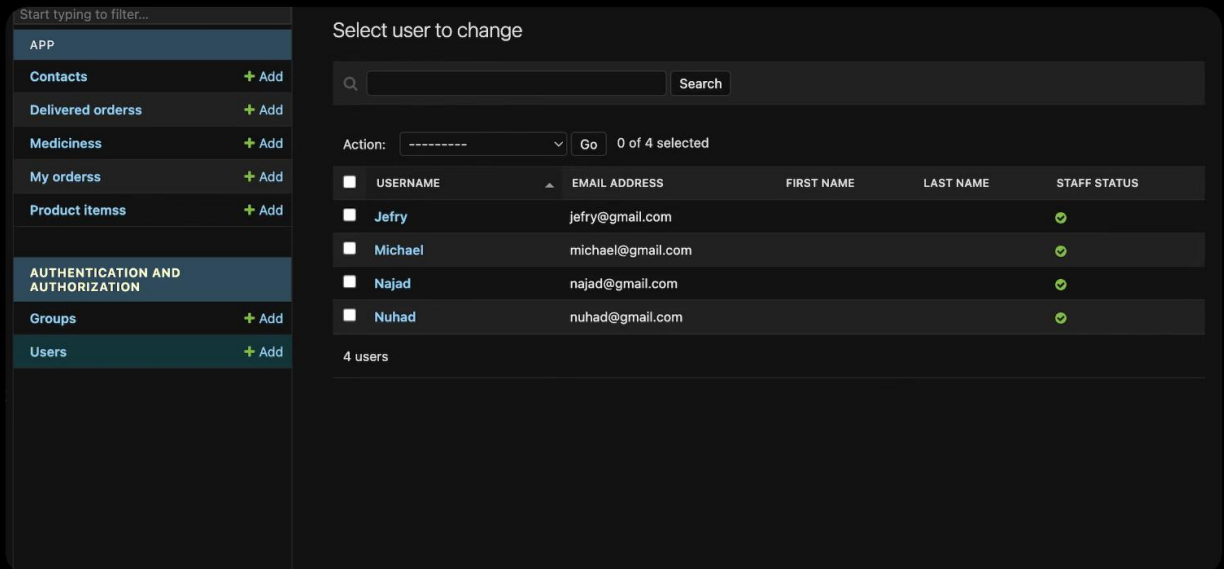
Managing Stock Levels	Replenishment Process
The inventory management system keeps track of the stock levels for each medical supply item. It monitors the quantity of each item in stock and alerts the staff when the stock levels fall below a certain threshold.	When the stock levels of a medical supply item reach the threshold, the inventory management system triggers the replenishment process. This process involves placing orders with suppliers to restock the inventory.

Managing Stock Levels	Replenishment Process
The inventory management system keeps track of the stock levels for each medical supply item. It monitors the quantity of each item in stock and alerts the staff when the stock levels fall below a certain threshold.	When the stock levels of a medical supply item reach the threshold, the inventory management system triggers the replenishment process. This process involves placing orders with suppliers to restock the inventory.

Security Measures



The image shows the Django administration login interface. It features a header with the text 'Django administration' and a user icon. Below the header, there are two input fields: 'Username:' and 'Password:'. A 'Log in' button is positioned at the bottom right of the form.



The image displays the Django administration user management interface. On the left, there is a sidebar with a search bar and a list of apps: 'APP', 'Contacts', 'Delivered orderss', 'Mediciness', 'My orderss', 'Product itemss', 'AUTHENTICATION AND AUTHORIZATION', 'Groups', and 'Users'. The 'Users' app is selected. The main content area is titled 'Select user to change' and contains a search bar and a table of users. The table has columns for 'USERNAME', 'EMAIL ADDRESS', 'FIRST NAME', 'LAST NAME', and 'STAFF STATUS'. There are four users listed: Jefry, Michael, Najad, and Nuhad. Each user has a checkbox in the 'USERNAME' column and a green checkmark in the 'STAFF STATUS' column. Below the table, it says '4 users'.

USERNAME	EMAIL ADDRESS	FIRST NAME	LAST NAME	STAFF STATUS
<input type="checkbox"/> Jefry	jefry@gmail.com			✓
<input type="checkbox"/> Michael	michael@gmail.com			✓
<input type="checkbox"/> Najad	najad@gmail.com			✓
<input type="checkbox"/> Nuhad	nuhad@gmail.com			✓

Authentication

The Medical Supply Management project implements a robust authentication system to ensure the security of user data. Users are required to create an account and provide a unique username and password. This information is securely stored in a database and is used to authenticate users when they log in.

Data Encryption

To ensure the privacy and protection of user data, the Medical Supply Management project utilizes data encryption techniques. Sensitive information such as user passwords and personal details are encrypted before being stored in the database. This prevents unauthorized access to the data even if the database is compromised.

Future Enhancements

Scalability

Implementing a distributed database system to handle increased data volume and user load.

Performance Enhancements

Optimizing database queries and indexing to improve response times and overall system performance.

Additional Features

1. Integration with a real-time inventory management system to provide accurate stock levels.
2. Implementing a notification system to alert users about low stock levels and expiring supplies.
3. Adding a reporting module to generate custom reports on supply usage and trends.