

WAREHOUSE MANAGEMENT SYSTEM

Project Overview:

The Warehouse Management System is a comprehensive solution consisting of three modules: Admin, Client, and Delivery Management. It streamlines inventory control, purchase, and shipping processes. Admin can add products and monitor orders, while clients can purchase products, track shipments, and confirm deliveries. The delivery module updates shipping progress, ensuring clients and delivery personnel can mark successful deliveries. This system enhances efficiency, transparency, and customer satisfaction in warehouse operations.

General Requirements:

- The system must be mobile-responsive, providing an optimal user experience on various devices.
- The system should have modules like Admin, Clients, and Delivery.

Registration:

- The registration form must have live form validation for fields like name, pan card, email, and password.
- Passwords must meet minimum security requirements (e.g., minimum length, special characters, numbers).
- Email addresses must be unique, and the system should display an error if the email is already registered.
- Upon successful registration, the user must receive a confirmation email to the user with the randomly generated **6-digit number** as a password and can later reset the password as needed.

Login:

- Users must have the option to reset their passwords using a secure and user-friendly password reset process and it must have the proper form live validation as mentioned above in registration.
- Users should have the ability to update their profile information and should be able to reset their passwords securely.

Admin Features:

- Admin can add a new product to the system with the details like product name, description, specifications, price, and initial stock quantity.
- Admin can view a list of all orders made by clients including product, quantity, and client information.
- Display real-time shipping status of products to admin, and show whether the products are dispatched, in transit (with the current product location), or delivered.
- Display the delivery status of products (delivered or pending) to admin. (If both the client and delivery module marked the shipping status as successful then the delivery status must be “delivered” otherwise it must be pending)

Client Features:

- Clients can browse the list of products available to purchase.
- They can add products to their cart and proceed to checkout.
- Clients can choose delivery by road, airline, or ship during checkout.
- After purchase, clients receive a tracking ID for their order via email and an estimated delivery date.
- Clients can view real-time tracking details using the received tracking ID.
- Clients can mark the delivery status as received once they physically receive it from the delivery partner.
- The user is required to register with the system, providing details such as their name, mobile number, address, etc. and they can get access to the system after receiving approval from the administrator.

Delivery Module Features:

- The delivery management user is required to register with the system and obtain approval from the administrator before being able to offer delivery-related services to users
- The delivery module can update shipping details such as location and estimated delivery time.
- These updates are reflected in the tracking information available to clients.

- Once products are delivered, both the delivery module and the client can independently mark the delivery as completed.
- Successful delivery is confirmed when both the client and the delivery module mark it as completed.