Online Store For Pharmacy

Project Report Group Assessment – Y1 S2

Project Name: HealthBridge Online Pharmacy

Group Name: Group R

Module : SE102.3

Batch : 24.1

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1. Introduction

HealthBridge is an online pharmacy store designed to provide a user-friendly, secure platform for purchasing medicines online. The platform enables customers to browse, search, and order pharmaceutical products conveniently. It also includes features such as inventory management, order tracking, and secure payment processing.

- Objectives of HealthBridge:

- Provide a streamlined, secure online shopping experience for pharmacy products.

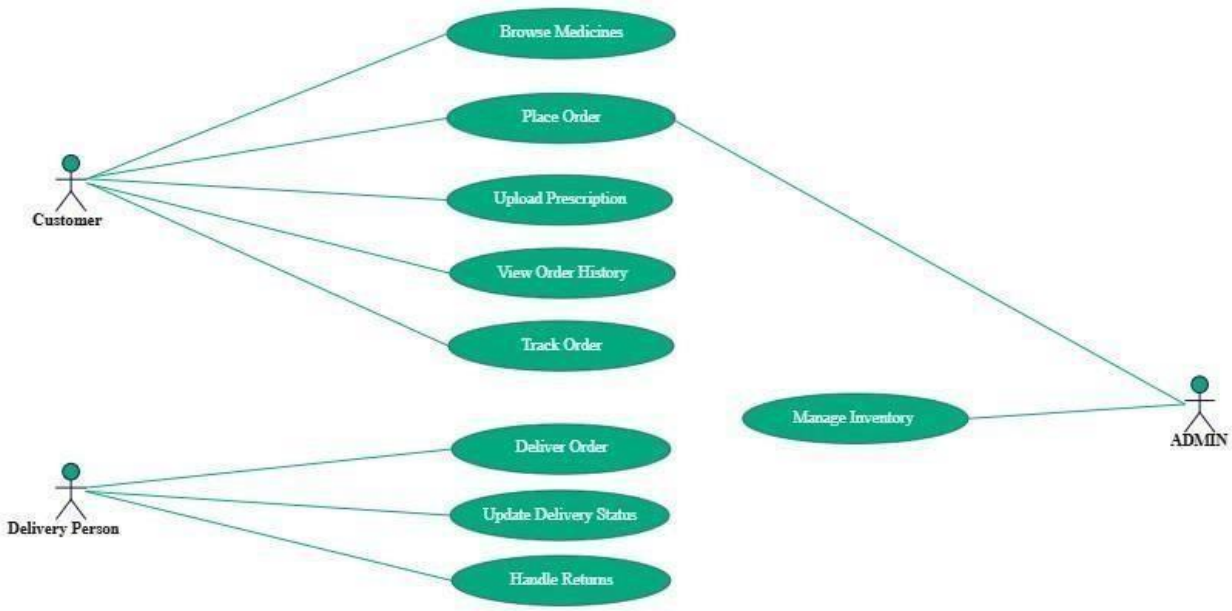
- Enable efficient management of product inventory, orders, and user accounts.

- Integrate robust database management and user authentication.

2. Requirement Analysis

Use Case Diagram

The use case diagram highlights interactions between the user, admin, and the system. (Include a visual representation here if possible.)



Functional Requirements

1. User Features:

- User registration and account management.
- Browse and search products by category, price, and availability.
- Add products to the cart and place orders.
- View and track order history.

2. Admin Features:

- Manage products, categories, and inventory.
- Process and track user orders.

- Access reports and analytics for sales and stock.

Non-Functional Requirements

- Performance: The system should support up to 1000 concurrent users.
- Security:

- User data and passwords are encrypted using secure hashing algorithms.
- Only authenticated users can access the platform.
- Reliability: The platform ensures a 99.9% uptime guarantee.
- Scalability: The architecture supports adding new products, users, and features seamlessly.

3. High-Level Design

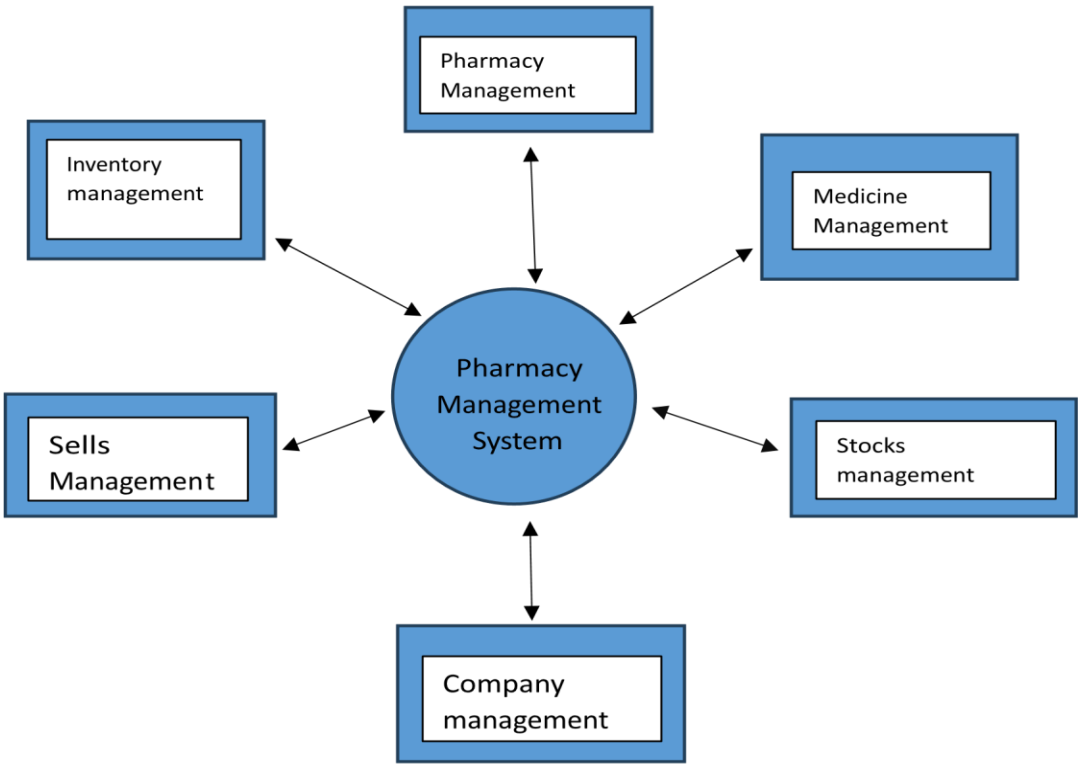
Classes Identified

The key classes in the system include:

Class	Attributes	Behavior
User	id, first_name, last_name, email, password	Register, Login, Update profile, Place order
Admin	Id, username, password	Manage products, View orders, Add categories
Product	Id, name, description, quantity	View details, Update inventory
Order	Order_id, user_id, date	Track order history, Payment processing

Dataflow Diagram

(Include appropriate diagrams showcasing system flow and relationships.)



4. Data Modeling

Entities, Tables, and Attributes

The system database includes the following tables:

Relational Database

Normalization ensures efficient storage and eliminates redundancy, achieving 3NF.

- Admins Table

id	username	password

- Cart Table

cart_id	user_id	item_id	quantity

- Orders Table

order_id	user_id	date

- Payment Table

payment_id	paymentMethod	paymentDate	amount	Order_id

- Products Table

id	name	price	description	quantity	image	category

- Users Table

id	first_name	last_name	email	phone_number	password	birthdate	gender	Created_at

Business Rules

1. Each user can place multiple orders.

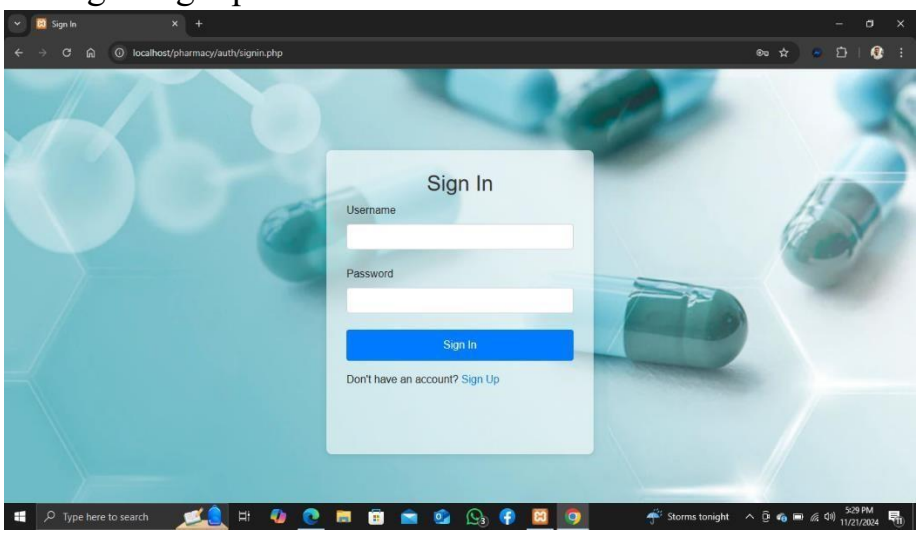
2. Each product can belong to one category.

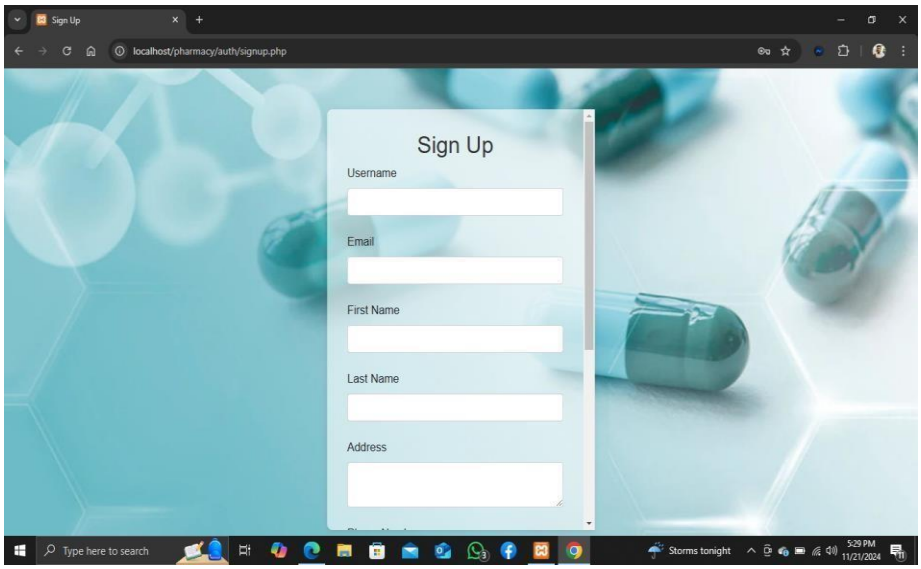
3. Payments must be linked to valid orders.

5. Detailed Design

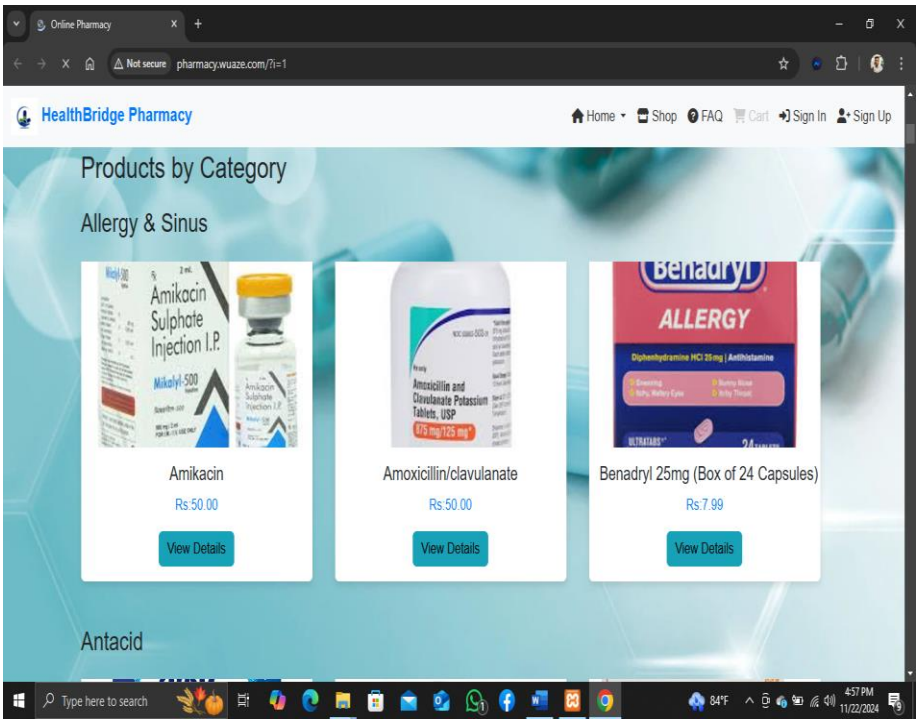
Key screens include:

1. Login/Signup Screen

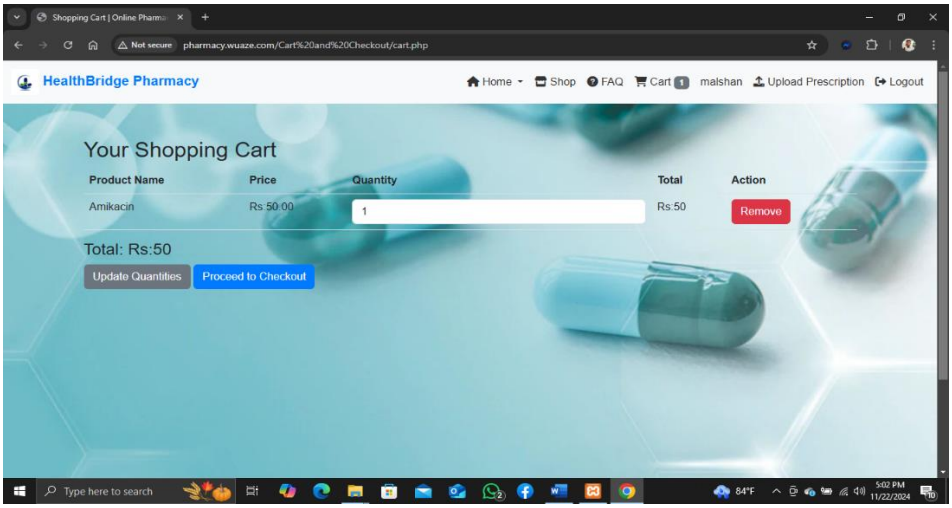




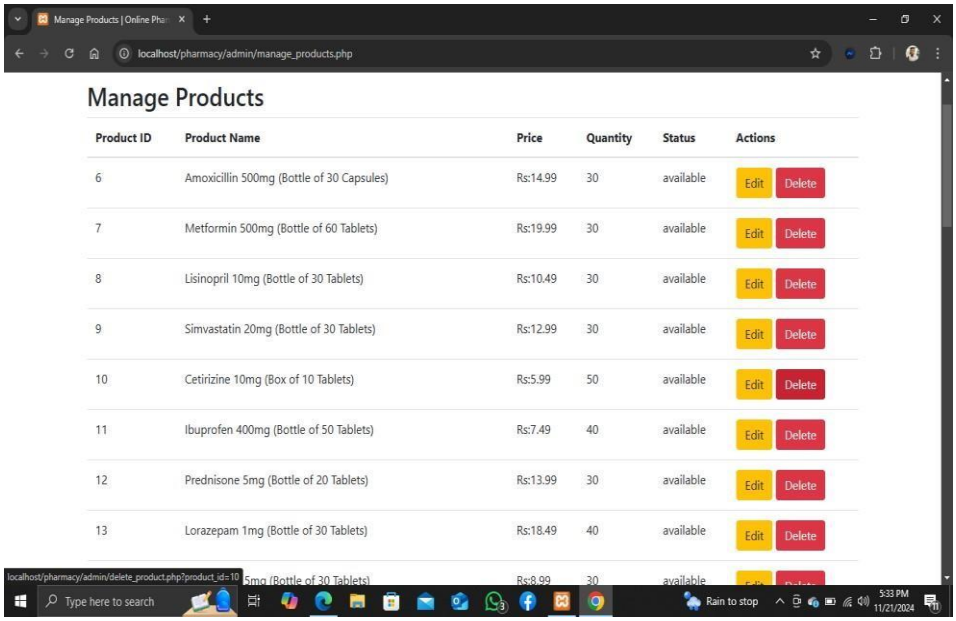
2. Product Listing Page



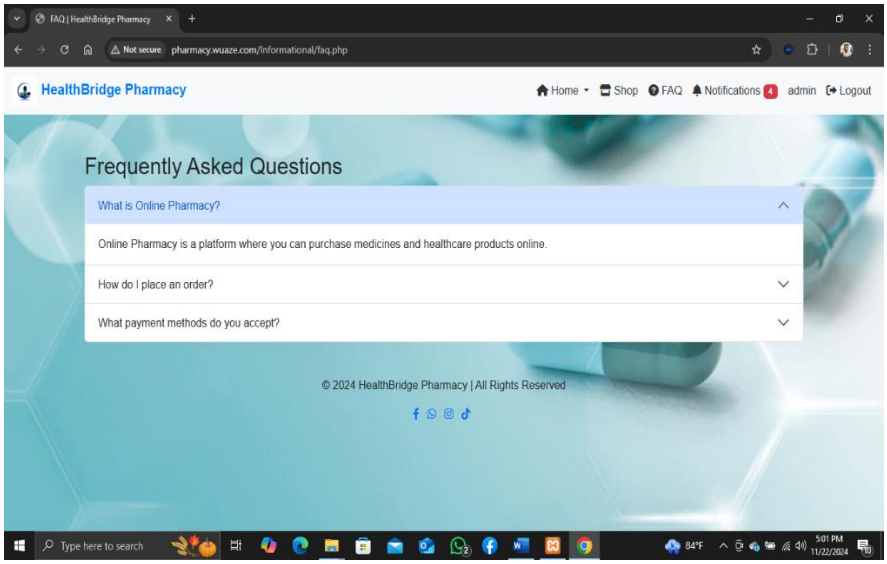
3. Shopping Cart Page



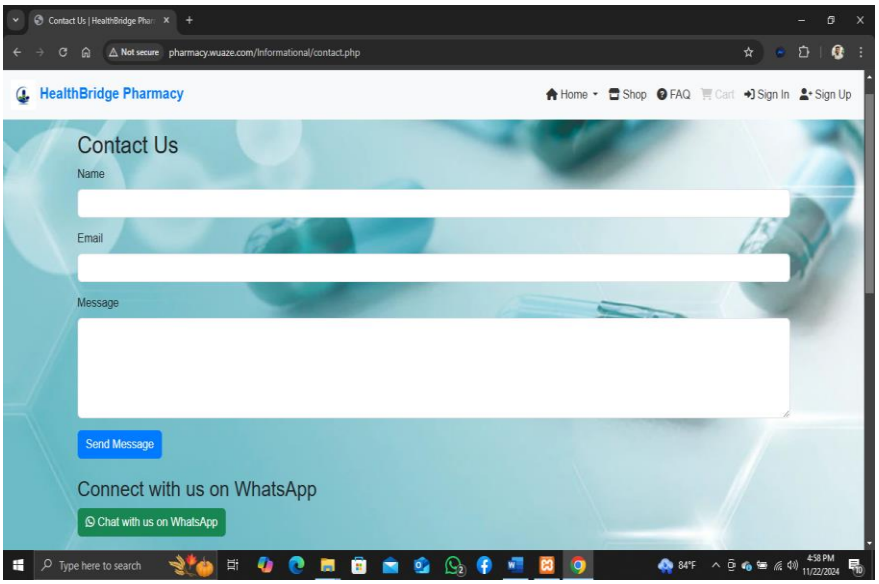
4. Admin Panel for Product Management



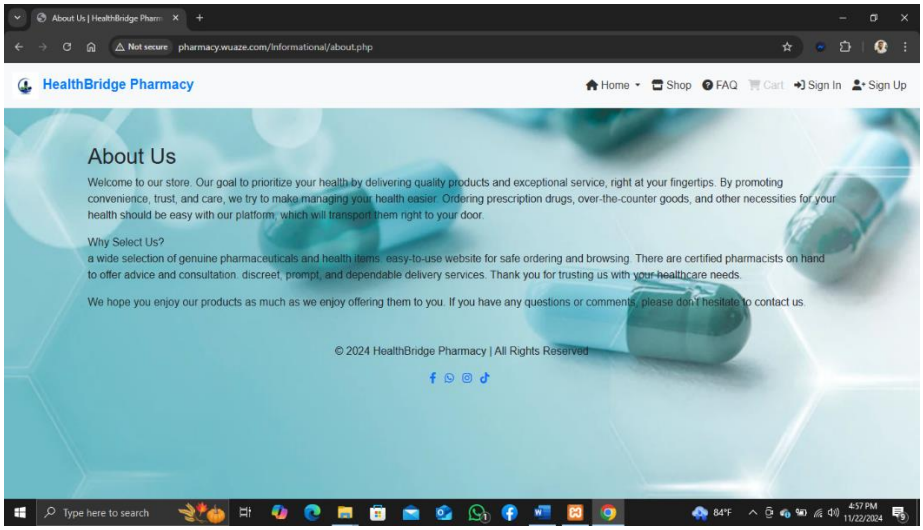
5.FAQ



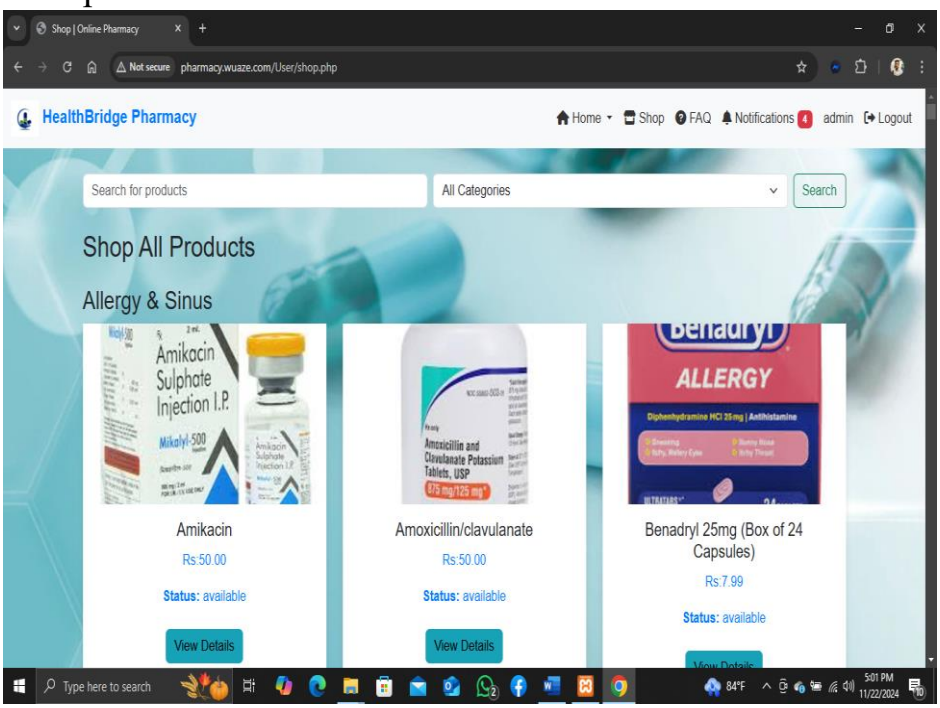
6.Contact Us



7.About Us

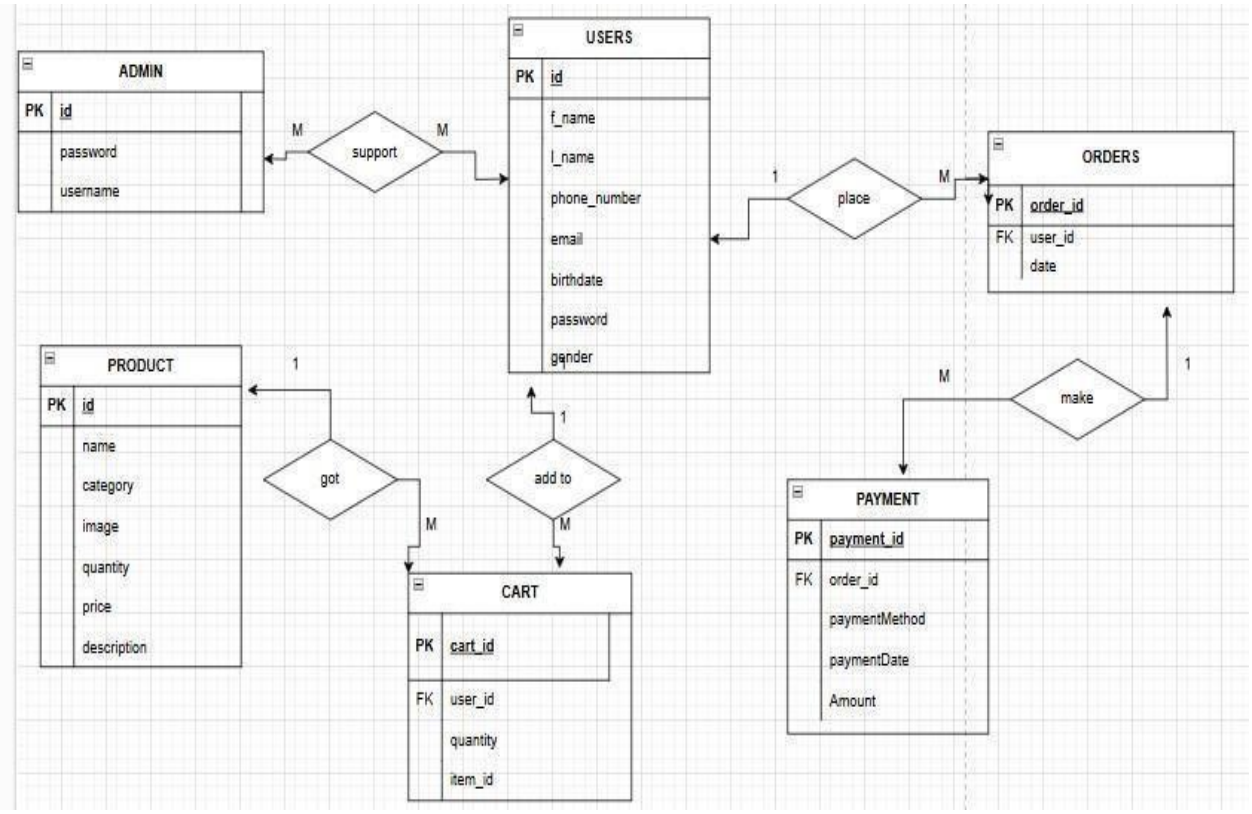


8.Shop



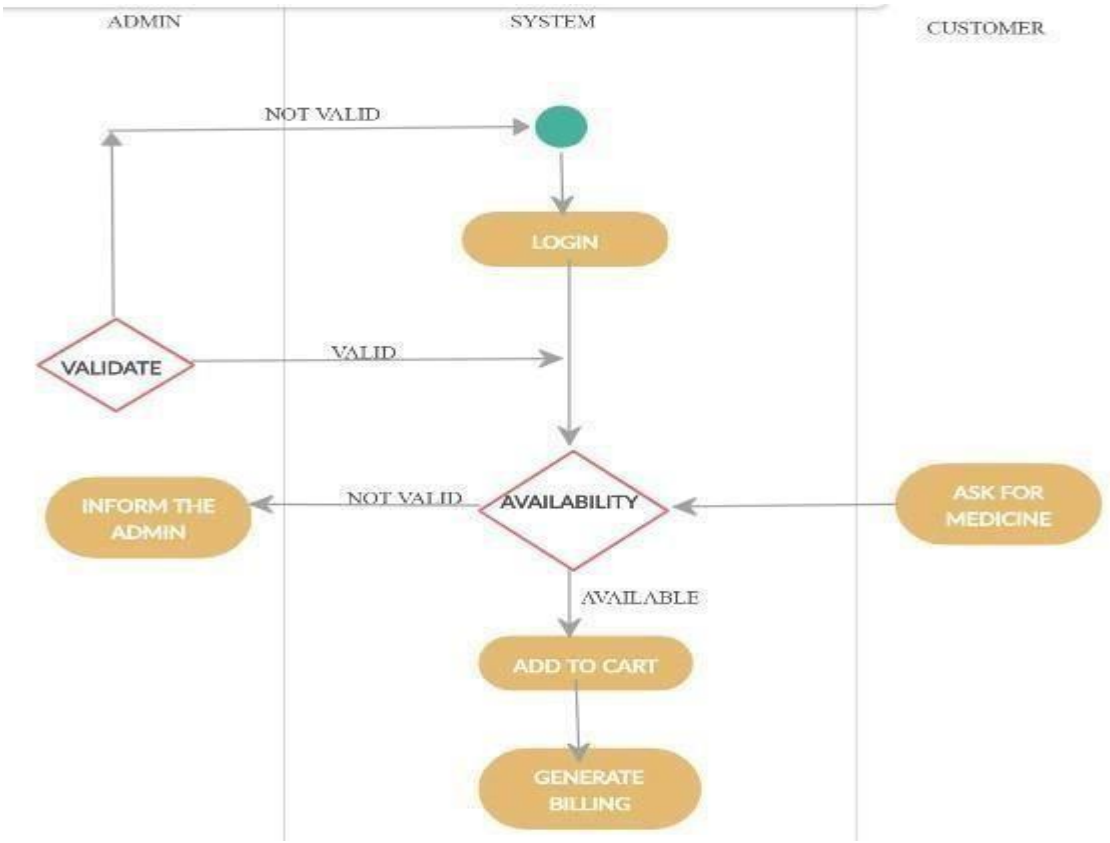
ER Diagram

(Provide a detailed ER diagram for the database structure.)



Activity Diagram

Depicts the flow of a typical user session, from login to placing an order.



We hope in the future, a method for a customer to check the status of his order during delivery.

6. Conclusion

HealthBridge successfully delivers a comprehensive online pharmacy solution, streamlining order placement, inventory management, and payment processing. It enhances user convenience and supports secure transactions, addressing key challenges in modern healthcare e-commerce.

7. References

- Course material on database design and PHP development.

- Online resources for SQL, PHP, and Bootstrap.