

# Project Report: Nasiree Pharmacy Website

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**Course:** Data Analysis (Web Programming Project)

## Introduction

This document presents the development process and features of Nasiree Pharmacy Website, an e-commerce platform created to serve a local pharmacy. The goal of this project was to create a user-friendly online interface for customers and a practical management system for administrators.

## Project Overview

The Nasiree Pharmacy Website is a full-featured e-commerce application designed for a small to medium-sized pharmacy. It enables customers to browse products, add them to a cart, and place orders. The admin panel allows pharmacy staff to manage products, user accounts, orders, and monitor inventory levels efficiently.

## Technology Stack and Motivation

The following technologies were chosen based on accessibility, effectiveness, and learning value:

- **PHP:** Chosen for server-side development due to its simplicity and wide community support.
- **MySQL:** Used for database management, handling user data, products, orders, and cart information.
- **Bootstrap:** Used to create a clean, responsive interface quickly, without heavy custom CSS.
- **JavaScript (AJAX):** Implemented for real-time cart updates without page reload.

These technologies were selected to balance ease of implementation with professional functionality, while staying within beginner-to-intermediate developer scope.

## Key Development Decisions

Several important development decisions were made during the project:

- **Separation of User and Admin Interfaces:** Ensures simplicity for customers and full control for administrators.
- **Session-Based Authentication:** Used to secure both user and admin access while keeping the logic manageable.
- **AJAX in Shopping Cart:** Improves user experience by allowing product additions without page reloads.
- **Robust Image Handling:** Added fallback logic for product images to ensure the website works even if some images are missing.
- **Order Management System:** Implemented complete order tracking with status updates for pharmacy operations.

## Core Functionalities

### User Side:

- Responsive product catalog with categories
- User registration and login system
- Shopping cart with quantity management and AJAX updates
- Order placement and confirmation
- Search functionality for products
- Clean, modern interface with product images

### Admin Side:

- Dashboard with statistics overview (total products, users, inventory value, low stock alerts)
- Product management: add, edit, delete products with image upload functionality
- Order management: view, update status, and delete orders
- User account management with password update functionality
- Admin account management

- Inventory tracking with low stock monitoring

## Result and System Quality

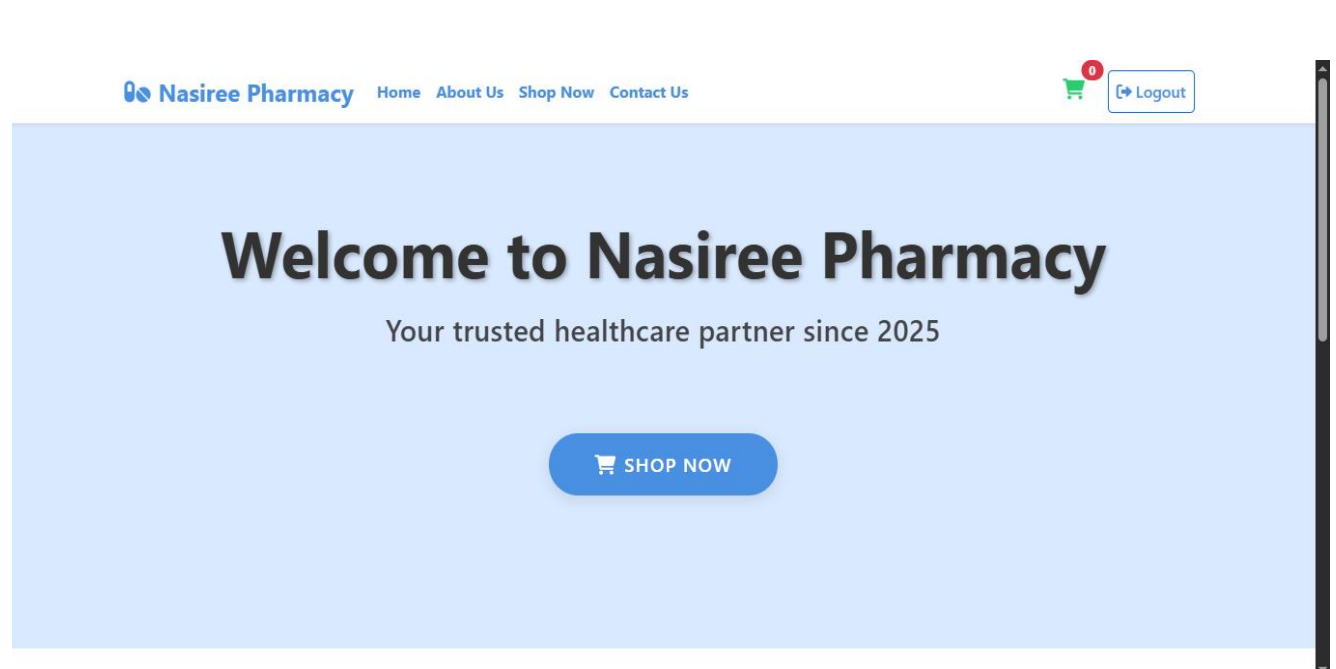
The system performs smoothly across all tested devices and browsers. All data operations are handled securely with validated input. The user interface remains responsive and intuitive, and the admin panel provides comprehensive tools for managing the pharmacy's online presence. The cart functionality works seamlessly with real-time quantity updates, and the order management system allows for complete tracking of customer purchases. The image handling ensures the website remains functional even with missing product images.

## Conclusion


This project demonstrates the core principles of dynamic web development with PHP and MySQL, along with responsive design using Bootstrap. It fulfills real-world e-commerce requirements in a minimal, effective, and maintainable format, providing a solid foundation for a pharmacy's online presence with complete order management capabilities.

## Screenshots from the project:


1:



2:




HomeAbout UsShop NowContact Us



Logout

## Featured Products




### Ibuprofen 200mg

Anti-inflammatory pain reliever. Effective for pain and swelling....

\$7.99

Add to Cart




### Vitamin C 500mg

Immune support supplement. Contains 60 chewable tablets....

\$12.99

Add to Cart




### Flu Relief Syrup

Combination medicine for flu symptoms. Contains antihistamine and decongestant....


\$14.99

Add to Cart


3:



HomeAbout UsShop NowContact Us



Logout




### Ibuprofen 200mg

Price: \$7.99

Quantity: 1

Total: \$7.99

Remove



### Vitamin C 500mg

Price: \$12.99

Quantity: 1

Total: \$12.99

Remove

Subtotal:

\$20.98

Shipping:

Free

Total:

\$20.98

Proceed to Checkout

Admin panel:

1:

Pharmacy Admin

Dashboard

Manage Products

Registered Users

Logout

Admin Dashboard

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6

Total Products

4

Registered Users

0

Low Stock Items

\$5,569.15

Inventory Value

Quick Actions

Add New Product

View All Products

Recent Products

Name	Price	Stock	Category
Ibuprofen 200mg	\$7.99	80	Pain Relief
Vitamin C 500mg	\$12.99	120	Supplements

2:

Pharmacy Admin

Dashboard







Manage Products

Logout

Manage Products

Add New Product

All Products

Image	Name	Category	Price	Stock	Actions
	Antibiotic Ointment	First Aid	\$8.99	90	<div>EditDelete</div>
	Eye Tablets	Eye Care	\$6.99	120	<div>EditDelete</div>
	Flu Relief Syrup	Cold & Flu	\$14.99	75	<div>EditDelete</div>
	Ibuprofen 200mg	Pain Relief	\$7.99	80	<div>EditDelete</div>
	Paracetamol 500mg	Pain Relief	\$5.99	100	<div>EditDelete</div>
	Vitamin C 500mg	Supplements	\$12.99	120	<div>EditDelete</div>

3:

Pharmacy Admin

Dashboard

Manage Products

Registered Users

Logout

Registered Users

All Registered Users

ID	Email	Role	Registered At	Password Changed?	Actions
15	khan123@gmail.com	user	2025-07-05 11:27:01	Yes	<div>Delete</div> <div>Change Password</div>
14	khan12@gmail.com	user	2025-07-05 11:26:47	No	<div>Delete</div> <div>Change Password</div>
10	newadmin@pharmacy.com	admin	2025-07-04 22:21:22	No	<div>Delete</div> <div>Change Password</div>
5	jamebond@gmail.com	user	2025-06-29 12:26:19	No	<div>Delete</div> <div>Change Password</div>
2	shafiqullahnasiree82@gmail.com	user	2025-06-29 10:29:42	Yes	<div>Delete</div> <div>Change Password</div>