

E-commerce Management System

Project Presentation

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Subject : Building Restful APIs using ASP .NET core

Introduction

- Need for managing products, sales, and customers efficiently
- Manual management is error-prone
- Problems: Lost sales, poor customer experience
- Solution: Automated, secure system with dashboard

Objective

- Manage mobile products, categories, stock
- JWT-based authentication
- Role-based access (Admin, Staff, Customer)
- Manage sales, invoices, checkout
- Dynamic dashboard with search, filter, pagination

Dashboard

- Shows total Products, Customers, Sales, Categories
- Alerts for low stock
- Recent transactions overview
- Role-based access views
- Real-time visualization

E-Commerce Mobile Store Dashboard

Boost your sales today 

04 Oct, 2024 | 10:35 AM



Total Products
250+



Orders
120



Customers
80

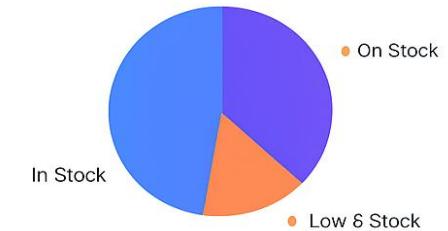


Today's Sales
₹15,000

Monthly Sales



Stock Status



Product List - Product Management

- View all products with details (ID, Name, Price, Stock, Image)
- Add Product – Insert new product into mobile store
- Edit – Modify existing product details
- Delete – Remove unwanted products
- Info – View detailed product information
- Search – Quickly find products
- Filter – Narrow down products by category or price
- Detailed info (RAM, Storage, Price)

AJAX Calls

- Live search suggestions
- Add-to-cart without page reload
- Real-time stock updates

The screenshot shows a web-based E-commerce application for mobile phones. The top navigation bar includes links for Home, Products, Categories, Cart, and Users, along with a user profile for 'keval'. The main header is 'Product Management' with a 'Add New Product' button. A green success message box says 'Item added to cart successfully'. Below is a table of products:

ID	Model Name	Company	Price	Category	Stock	Launch Date	Actions
4	v27	vivo	₹ 35,000.00	No Category	10 in stock	Jan 04, 9999	
5	v29	vivo	₹ 34,000.00	No Category	15 in stock	Jan 01, 2005	

Edit Product

Model Name

v27

Company Name

vivo

Price

35000.00

Stock

10

Category

samsung

Launch Date

04-01-9999



Description

(Large text area for product description)

Is Removed

Update Product

Cancel

Add New Product

Model Name *

(Text input field for Model Name)

Company Name *

(Text input field for Company Name)

Price *

0

Launch Date

01-01-0001

Category

-- Select Category --

Created By

-- Select User --

Stock

0

Removed/Hidden

Mark as removed to hide from listings

Description

Enter product description

Back to List

Create Product

Categories Management

Search & Filter

- Search mobiles by name, model, brand, price
- Filter by category, price range, availability
- Applied on at least two screens

Pagination

- API-driven pagination for product listing & sales history
- Option for page size selection

CRUD

- Applied full crud operations

Categories

[+ Add New Category](#)

Category Management

Show entries

Search:

Category Name	User ID	Created Date	Modified Date	Actions		
nothing	13	10-09-2025 10:44:18	10-09-2025 10:44:18	 Details	 Edit	 Delete
realme	17	07-09-2025 22:10:37	07-09-2025 22:10:37	 Details	 Edit	 Delete
iphone	16	05-08-2025 23:44:09	13-09-2025 21:44:11	 Details	 Edit	 Delete
redmi	17	01-09-2025 09:15:54	01-09-2025 09:15:54	 Details	 Edit	 Delete
vivo	13	01-09-2025 09:15:23	13-09-2025 21:45:18	 Details	 Edit	 Delete
samsung	1	01-08-2025 21:42:02	01-08-2025 21:42:02	 Details	 Edit	 Delete
string	7	01-08-2025 16:29:19	01-08-2025 16:29:19	 Details	 Edit	 Delete

Showing 1 to 7 of 7 entries

Previous 1 Next

Create New Category

[← Back to Categories](#)

Category Information

Category Name *

User *

[X Cancel](#) [Create Category](#)

Delete Category

[← Back to Categories](#)

Confirm Category Deletion

⚠ Warning! Are you sure you want to delete this category? This action cannot be undone.

Category Name: nothing

User ID: 13

Created Date: 10-09-2025 10:44:18

Modified Date: 10-09-2025 10:44:18

[X Cancel](#) [Delete Category](#)

Cart Management

- Displays all products added by the user into the cart
- Columns include: **Product (name, company, price)**, **User**, **Quantity**, **Added Date**, and **Actions**
- Details → View product info
- Edit → Update quantity or details
- Remove → Delete product from cart
- Supports **search, filter, and pagination** for managing cart entries
- Provides real-time updates when products are added or removed

Shopping Cart

[+ Add to Cart](#)

Cart Items

Show 10 entries

Search:

Product	User	Quantity	Added Date	Actions		
v27 vivo ₹ 35,000.00	keval	1	13-09-2025 21:22:24	Details	Edit	Remove
v29 vivo ₹ 34,000.00	keval	1	01-09-2025 09:27:39	Details	Edit	Remove
v29 vivo ₹ 34,000.00	keval	1	01-09-2025 09:16:49	Details	Edit	Remove

Showing 1 to 3 of 3 entries

Previous 1 Next

Cart Summary

Total Items: 3**Total Quantity:** 3[Proceed to Checkout](#)

Delete Cart Item

[← Back to Cart](#)

Confirm Cart Item Deletion

Cart ID:	12
Product ID:	5
User ID:	13
Quantity:	1
Total:	34000.00
Added Date:	01-09-2025 09:27:39

[X Cancel](#)

 Delete Item

Edit Cart Item

[← Back to Cart](#)

Edit Cart Item

Product *

v27

User *

keval

Quantity *

1

Total

35000.00

Total will be calculated automatically

[X Cancel](#)

 Update Cart Item

Billing & Checkout

- Collects **customer details** (Name, Email, Phone, Address).
- Displays **order summary** with product images, model, quantity, price, and subtotal.
- Calculates **subtotal, tax/GST, discounts, and grand total** automatically.
- Provides **multiple payment options**: UPI, Wallet, Card, COD.
- Includes a **green checkout button** for final order confirmation.

Customer Information

Name

Email

Phone

1234 Elm Street, Springfield, IL 62704

Checkout

Order Summary

Product	Model	Quan	Price	Subtotal
	v29	v29	2	₹ 34,000 ₹ 63,000.0
	v27	v27	1	₹ 35,000 ₹ 35,000.0
Subtotal				₹ 103,000.00
Tax / GST 10%				₹ 10,300.00
Discount				- ₹ 5,000.00
Grand Total				₹ 108,800.00

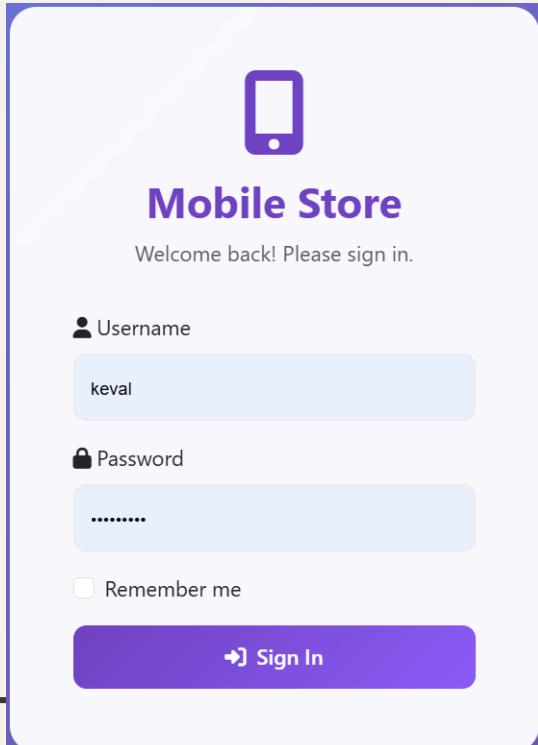
UPI

Wallet

Card

COD

Authentication (JWT) & Role-Based Access Control



- Secure API calls using JSON Web Tokens
- Login/Signup with token authentication
- Role-based token claims
- Admin: Manage products, users, sales
- Staff: Limited management access
- Customer: Browse, add to cart, place orders

THANK YOU