

E-Commerce Web Application Documentation

1. Project Planning

The E-Shop project is a modern e-commerce web application designed to provide users with a seamless online shopping experience. It aims to enable customers to browse, select, and purchase products conveniently from any device. The system will include user authentication, a shopping cart, checkout functionality, and an admin dashboard for managing products and orders.

Objectives:

- Develop a responsive and user-friendly e-commerce web application using React.
- Implement secure user authentication and product management.
- Create a structured database for users, products, and orders.
- Provide smooth navigation and an intuitive shopping experience.

Scope: The project focuses on the client-side development (frontend) with React, including UI/UX design and API integration. It will simulate a functional online store with product listings, a shopping cart, and checkout processes.

2.

Stakeholder Analysis

Stakeholder	Role	Interest
Customer	End user	Wants an easy, secure, and fast shopping experience
Admin	Manages products and orders	Requires simple control panel and clear data visibility
Developer	Builds and maintains system	Ensures functionality, usability, and performance
Instructor/Supervisor	Evaluator	Monitors project progress and documentation quality

3.

Database Design

The database for E-Shop consists of four main entities: Users, Products, Orders, and CartItems. These tables are interlinked to ensure smooth data flow between customer activities and order management.

Entity Relationship Diagram (ERD):

Users (UserID, Name, Email, Password)

Products (ProductID, Name, Description, Price, Stock, ImageURL)

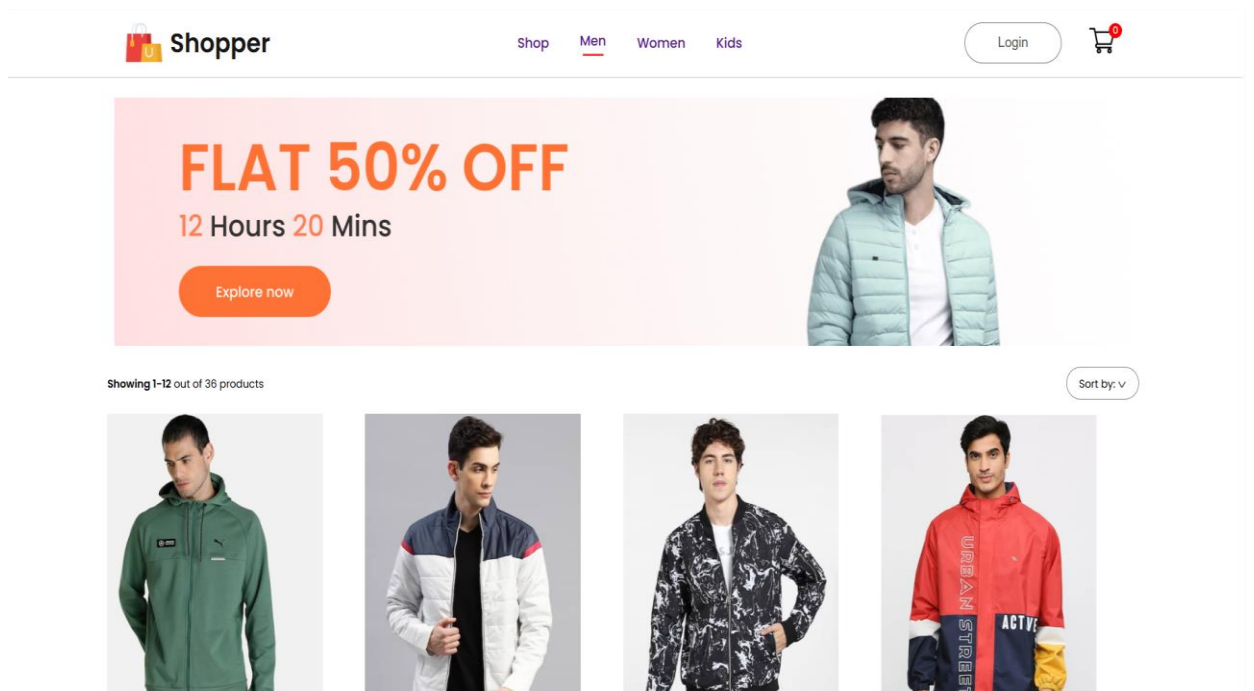
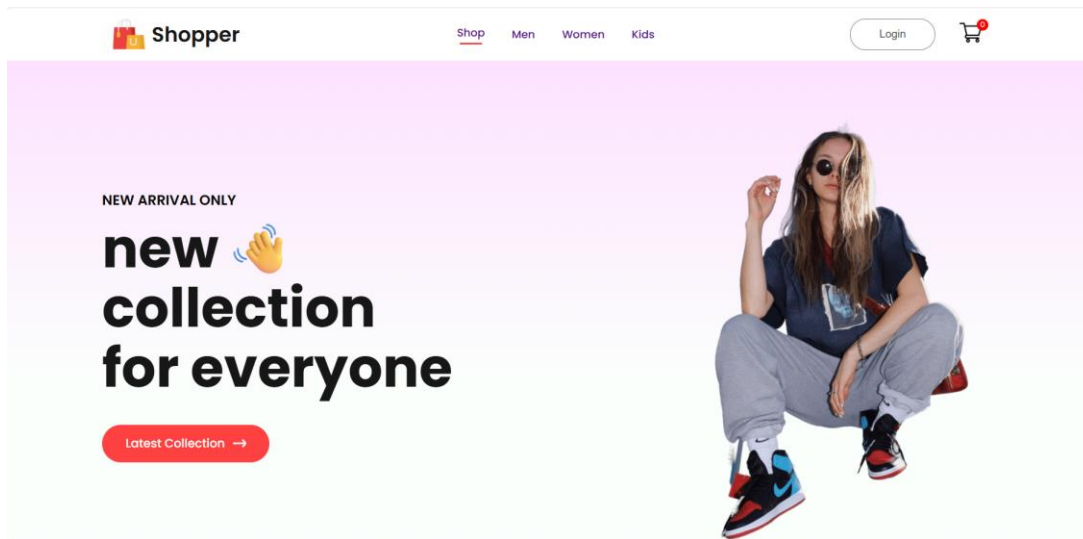
Orders (OrderID, UserID, OrderDate, TotalAmount, Status) CartItems
(CartItemID, OrderID, ProductID, Quantity)

Relationships:

- Each user can have multiple orders.
- Each order can contain multiple products (through CartItems).
- Each product can appear in multiple orders.

4.

UI/UX Design



FLAT 50% OFF

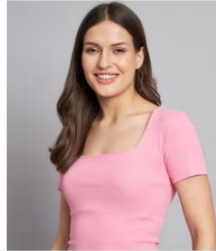
12 Hours 20 Mins

Explore now



Showing 1-12 out of 36 products

Sort by: v



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Products	Title	Price	Quantity	Total	Remove
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Cart Totals

Subtotal\$0

Shipping FeeFree


Total\$0

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