

Shopez E-commerce Project Documentation

Team ID: PNT2025TMID09943

Project Name: Shoppez E-commerce

Testing Period: 8 August 2025 to 9 August 2025

Version: N/A

1. Introduction

Shopez is an e-commerce platform designed to provide customers with a fast, secure, and user-friendly shopping experience.

The goal is to offer an intuitive interface, advanced product search, secure transactions, and support for local and small businesses.

Team Members & Roles:

- [Name 1] - Frontend Developer (React.js)
- [Name 2] - Backend Developer (Node.js / Express.js)
- [Name 3] - UI/UX Designer
- [Name 4] - QA & Testing Engineer

2. Frontend Features

- User authentication (Sign Up, Login, Logout)
- Search and filter functionality for products
- Product details page with images, descriptions, and reviews
- Shopping cart and wishlist functionality
- Checkout with payment integration
- Responsive design for mobile and desktop

3. Architecture

Component Structure:

- Header Component
- Footer Component
- Home Page

- Product List Page
- Product Details Page
- Cart Page
- Checkout Page
- Authentication Pages

State Management: Redux Toolkit for global state, useState/useEffect for local state.

Routing: React Router v6 with defined routes for pages.

4. Setup Instructions

Prerequisites:

- Node.js v16+
- npm or yarn
- Git

Installation:

1. Clone the repository
2. Install dependencies using npm install
3. Start the frontend using npm start

5. Testing Report

Test Cases:

- TC-001: Verify user login with valid credentials - Pass
- TC-002: Verify product search functionality - Pass
- TC-003: Verify checkout process - Pass
- TC-004: Verify login with invalid credentials - Pass
- TC-005: Verify product image loading - Fail

Bug Tracking:

- BG-001: Product images not loading - Medium - Open
- BG-002: Checkout button unresponsive on mobile - High - In Progress

6. Non-Functional Requirements

- Usability: Intuitive and user-friendly interface
- Security: SSL encryption, secure payment gateways
- Reliability: Consistent uptime and performance
- Performance: Page load under 3 seconds
- Availability: 24/7 uptime with minimal maintenance
- Scalability: Handle growth in users/products without issues

7. Future Enhancements

- AI-based product recommendations
- Multi-language support
- Integration with delivery tracking APIs
- Wishlist and save-for-later improvements