ShopEZ - One-Stop Shop for Online Purchases

Introduction

ShopEZ is a one-stop online shopping platform designed to provide users with a seamless experience for purchasing a wide range of products. This application offers a user-friendly interface, secure payment gateways, and efficient order management. It integrates various product categories and simplifies the shopping process.

Objectives

- To develop a comprehensive e-commerce application.

- To offer secure and efficient online shopping.

- To manage product listings, users, and orders effectively.

- To provide a responsive and interactive user interface.

System Architecture

The application follows a three-tier architecture:

1. Frontend: HTML, CSS, JavaScript, React.js

2. Backend: Node.js/Express.js

3. Database: MongoDB

Authentication is handled using JWT, and product data is stored and retrieved through REST APIs.

Features

- User Registration and Login

- Product Browsing and Search

- Shopping Cart

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- Order Placement and History

- Admin Dashboard for Product and Order Management

- Secure Payment Integration

Class Structure (Backend)

class User:

- user_id

- name

- email

- password

class Product:

- product_id

- name

- description

- price

- stock

class Order:

- order_id

- user_id

- product_list

- total_price

- status

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Conclusion

ShopEZ provides an efficient and scalable solution for online shopping needs. It combines essential features and robust backend support to deliver a complete e-commerce experience.