NAAN MUDHALVAN REPORT

AVOCADO GROCERY WEBAPP

SREE SASTHA INSTITUTE OF ENGINEERING AND TECHNOLOGY

Chembarambakkam

SWETHAT

AI & DS (FINAL YEAR) 212421243035

INDEX PAGE

INTRODUCTION

FEATURES

TECHNOLOGIES USED

PROJECT STRUCTURE

HOW IT WORKS

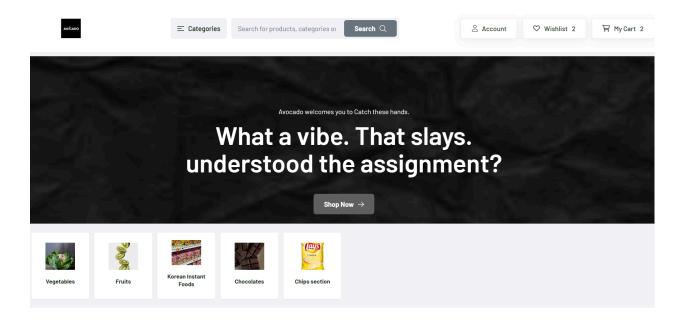
INSTALLATION GUIDE

DATA BASE

CONCLUSION

INTRODUCTION

The **Avocado grocery web app** project is an advanced e-commerce web application developed using the **MERN stack** (MongoDB, Express.js, React, Node.js).

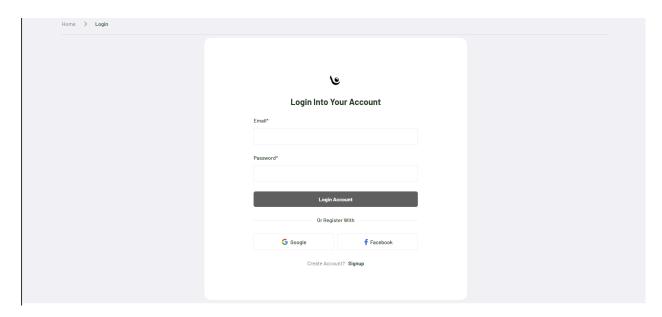


It provides users with a seamless shopping experience, allowing them to browse, manage, and purchase products online.

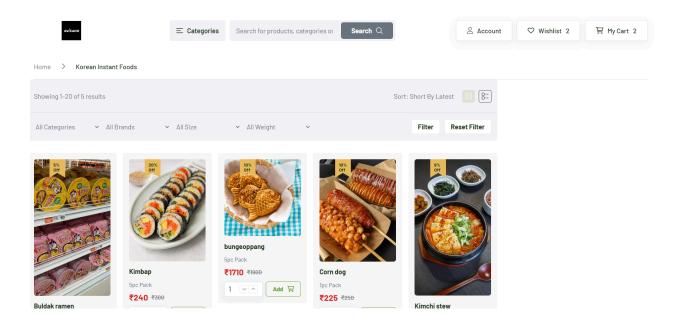
This application highlights full-stack development with multiple features, including a cart system, user authentication, and admin control for product management.

FEATURES

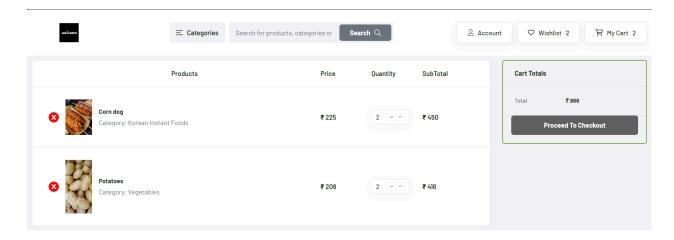
User Authentication: Secure sign-up, login, and purchase functionalities.



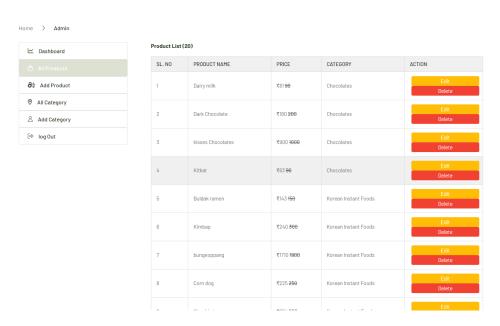
Product Page: Categorized product listings for easy browsing.



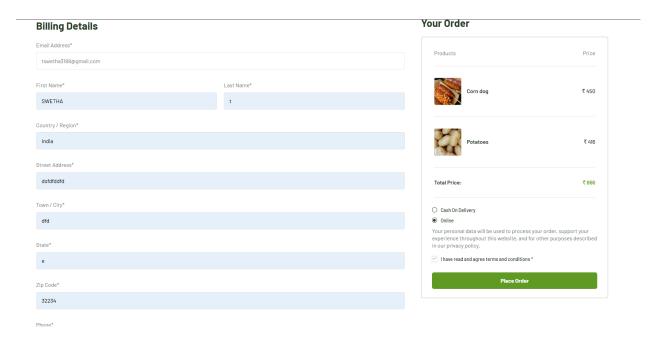
Cart System: Add, update, and checkout items in the cart.



Admin Control: Manage products, categories, and orders.



Payment Gateway Integration: Secure payments for users.



TECHNOLOGIES USED

Frontend: React.js

Backend: Node.js, Express.js

• **Database**: MongoDB

• **Image Storage**: Cloudinary

• Deployment: Render (Backend), Netlify (Frontend)

PROJECT STRUCTURE

- Frontend: React and Redux for a dynamic UI.
- Backend: Node.js and Express.js to manage API requests and business logic.
- Database: MongoDB Atlas for data storage.
- Image Management: Cloudinary for product image storage

HOW IT WORKS

Home Page: Displays a list of products with filtering options.

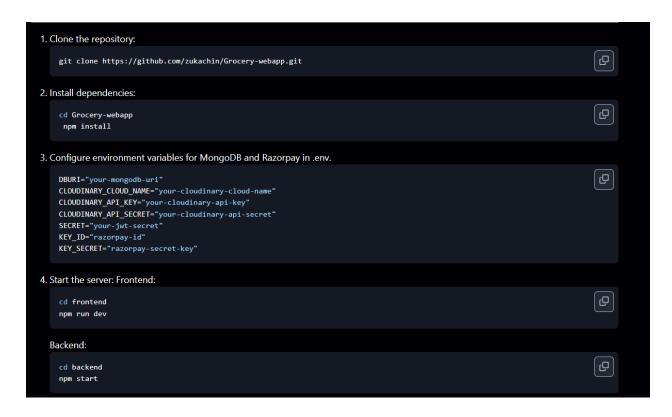
User Authentication: Users register or log in for personalized features.

Product Page: Displays detailed product information.

Admin Controls: Enables admins to manage products and categories.

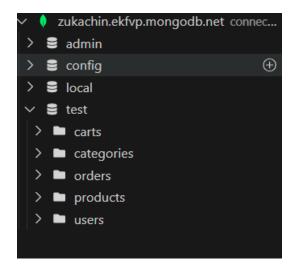
Cart & Checkout: Users add products to the cart and proceed to payment.

INSTALLATION GUIDE



DATA BASE

MONGODB (VS CODE) - COLLECTIONS



DOCUMENTS

CONCLUSION

The development and deployment of the **Avocado Grocery Web Application** proved that a robust, full-featured e-commerce platform can be built using the MERN stack.

This project demonstrates the potential of the MERN stack for scalable e-commerce solutions and provides a strong foundation for future enhancements.

REFERENCES

- 1. https://github.com/Bharath136/grocery-webapp/
- 2. https://mongodb.com
- 3. React Developer Tools React
- 4. Image and Video Upload, Storage, Optimization and CDN
- 5. Best Payment Gateway in India Manage Online Payments Free Demo