**ShopSmart: Your Digital Grocery Store Experience**

**ShopSmart** is a modern, full-stack e-commerce web application that delivers a seamless and engaging online grocery shopping experience. Designed for both customers and store administrators, ShopSmart streamlines product browsing, order management, and secure payments, leveraging cutting-edge web technologies for performance and scalability.

**Table of Contents**

* About
* Features
* Technologies Used
* Installation
* Usage
* Project Structure
* Contributing
* License

**About**

**ShopSmart** empowers users to browse grocery products, search and filter items, manage their shopping cart, and securely complete purchases online. The platform is designed for reliability, scalability, and ease of use, making it suitable for both local stores and larger supermarket chains.

**Features**

* **User Authentication:** Secure registration and login for customers and admins.
* **Product Listings:** Browse, search, and filter groceries with detailed descriptions and high-quality images.
* **Shopping Cart:** Add, remove, and update items in the cart with real-time price calculations.
* **Order Placement:** Choose delivery slots, opt for home delivery or in-store pickup, and track orders in real time.
* **Payment Integration:** Secure online payments (e.g., Razorpay, PayPal); supports cash on delivery.
* **Admin Dashboard:** Manage products, orders, users, and view analytics.
* **Responsive Design:** Optimized for desktops, tablets, and smartphones.
* **Real-Time Updates:** Order status and delivery tracking.
* **Membership Rewards:** Exclusive offers and loyalty programs for registered users.
* **Live Chat Support:** Integrated customer assistance.
* **Area-Specific Delivery Charges:** Flexible delivery management for different regions.
* **Modern UI/UX:** Smooth animations, transitions, and intuitive navigation.

**Technologies Used**

| **Technology** | **Purpose** |
| --- | --- |
| React | Frontend UI development |
| Next.js | Server-side rendering & routing |
| Node.js | Backend server |
| Express.js | RESTful API endpoints |
| MongoDB | NoSQL database for storing data |
| Prisma/Mongoose | Database ORM/ODM |
| Redux Toolkit | State management |
| NextAuth | Authentication |
| Razorpay/PayPal | Payment integration |
| Tailwind CSS | Modern, utility-first CSS framework |
| Framer Motion | Animations and transitions |
| AWS/Firebase | Cloud hosting, storage, notifications |
| Redis | Caching and session management |
| Radix UI/Shadcn UI | Accessible UI components |
| Recharts | Data visualization and analytics |

**Installation**

Follow these steps to set up ShopSmart locally:

bash

git clone https://github.com/your-username/shopsmart.git

cd shopsmart

npm install

Create a .env file in the root directory and add your environment variables (MongoDB URI, API keys, etc.).

Start the development server:

bash

npm run dev

Visit http://localhost:3000 in your browser.

**Usage**

* **Browse Products:** Explore categories, search for items, and view product details.
* **Add to Cart:** Use drag-and-drop or buttons to add/remove items.
* **Checkout:** Select delivery/pickup, enter address, and pay securely.
* **Track Orders:** View order status and delivery updates in real time.
* **Admin:** Access dashboard to manage inventory, orders, and users.

**Project Structure**

text

/shopsmart

/components # Reusable UI components

/pages # Next.js pages (routes)

/api # API endpoints (Next.js API routes or Express)

/models # Database models (Prisma/Mongoose)

/public # Static assets (images, icons)

/styles # Tailwind CSS and custom styles

/utils # Helper functions and utilities

/config # Configuration files

.env # Environment variables

package.json # Project metadata and dependencies

README.md # Project documentation