

ShopSmart: Digital Grocery Store Experience

Overview

ShopSmart is a full-stack web application that delivers a seamless online grocery shopping experience. From product browsing to secure checkout, ShopSmart is designed to simplify everyday grocery needs with convenience and efficiency.

Tech Stack

- Frontend: AngularJS / React
- Backend: Node.js + Express.js
- Database: MongoDB
- Authentication: JWT-based user login/register
- Hosting: Render / Vercel / MongoDB Atlas

Key Features

- Product Catalog: Browse groceries by category, price, or brand
- Search & Filter: Real-time search, filters by price, category, rating
- Cart & Checkout: Add to cart, update quantity, view bill, place orders
- User Profiles: Secure signup/login, view order history
- Admin Dashboard: Add/edit/delete products, view orders, manage stock
- Payment Gateway: (Optional) Stripe or Razorpay integration

UI Pages

1. Landing Page Welcome section + feature highlights
2. Product Listing Page All items with sorting/filtering options
3. Product Detail Page Detailed view with Add to Cart
4. Cart Page View, modify, and place orders

5. Login/Register Page User authentication

6. Dashboard Admin panel to manage the store

Sample Data Models (MongoDB)

Product:

```
{  
  "name": "Fresh Apples",  
  "category": "Fruits",  
  "price": 120,  
  "stock": 50,  
  "image": "url",  
  "description": "Fresh and crispy apples from Kashmir."  
}
```

User:

```
{  
  "name": "Jane Doe",  
  "email": "jane@example.com",  
  "password": "hashed",  
  "role": "customer"  
}
```

Order:

```
{  
  "userId": "abc123",  
  "items": [  
    {  
      "productId": "1",  
      "quantity": 2,  
      "price": 240  
    },  
    {  
      "productId": "2",  
      "quantity": 1,  
      "price": 120  
    }  
  ]  
}
```

```
{ "productId": "xyz456", "quantity": 2 }  
  
],  
  
"total": 240,  
  
"status": "Placed"  
  
}
```

Installation Steps (Local Dev)

1. Clone the repo
2. Run `npm install` in both frontend and backend folders
3. Setup `.env` files for DB and auth
4. Run `npm start` for both client and server

Future Enhancements

- Add payment gateway
- Enable delivery tracking
- Mobile responsive PWA version
- Add user reviews and ratings