Project Plan: E-Commerce Marketplace

Pages:

1. Home Page

- o Displays featured items, promotions and categories.
- Search bar for quick navigation.
- Banner or carousel for deals and promotions.

2. Product Listing Page

- Displays all products under a category.
- o Sorting and filtering options (e.g., by price, rating, popularity).

3. Product Details Page

- o Show detailed information about a product.
- o Includes images, descriptions, price, reviews, and an "Add to Cart" button.

4. Shopping Cart

- o Displays items added by the user.
- o Options to update quantity or remove items.
- o Shows subtotal, tax, and total cost.

5. Checkout Page

- o Captures user details such as shipping address and payment information.
- Option for guest checkout or login.

6. User Account Page

- Displays user profile information (name, email, etc...).
- o Allows users to view order history and update account details.

7. Admin Dashboard

- o Accessible only by administrators.
- o CRUD (Create, Read, Update, Delete) operations for products and categories.
- o Order Management.

8. Login/Signup Page

- o Authentication for users (buyers and admins).
- o Includes password reset functionality.

9. Order Confirmation Page

- o Displays after a successful purchase.
- Includes order details and confirmation message.

10. About Us / Contact Us Page

- o Information about the marketplace.
- Contact for or details.

Features to Include:

1. User Authentication

- Signup, login, logout functionality.
- o Role-based access (e.g. admin vs user).

2. Product Management

- o Admins can add, update or delete products.
- o Users can view products and their details.

3. Shopping Cart

- Add/remove/update items.
- o Store cart data persistently (even when user refreshes page).

4. Search and Filtering

- Search bar for keyword-based search.
- o Filters for categories, price range, and ratings.
- 5. Responsive Design
 - o Ensure the site works on desktops, tablets and phones.
- 6. Payments
 - o Payment gateway like Stripe or PayPal
- 7. Email Notifications
 - o Send confirmation emails for orders, account creation, etc.

Core Functionalities:

- 1. Backend with Node.js and Express.js
 - o Set up the server.
 - o Handle API routes for user, product, and order data.
- 2. Frontend with React.js
 - o Dynamic rendering of pages and components.
 - State management using React hooks or Redux
- 3. Database with MongoDB
 - o Store user accounts, product details, and order information.
 - o Create relationships between collections (e.g., users and orders).
- 4. Responsive Styling
 - o Use Bootstrap for mobile-friendly and clean UI.
- 5. Version Control
 - o Git for tracking changes.