E-commerce Platform Development Schedule with React Frontend

Day 1: Core Functionality Implementation

Hour 1-2: Project Setup

- Set up React Frontend:
 - Create a new React project using `npx create-react-app my-app`.
 - Install Redux for state management: `npm install redux react-redux`.
 - Configure a basic Redux store in your React project.
 - Set up routing with `react-router-dom`: `npm install react-router-dom`.
- Backend Setup:
 - Initialize the Node.js project if not already done.
 - Install necessary backend dependencies ('express', 'mongoose', 'dotenv', 'jsonwebtoken').

Hour 3-4: User Authentication

- Backend:

- Create a user model using Mongoose.
- Implement user registration and login endpoints.
- Secure routes with JWT middleware.
- Frontend:
 - Create registration and login forms using React.

- Implement authentication flow:
 - On successful login, save JWT token in local storage.
- Use Redux to manage authentication state.
- Implement private routes in React that require authentication.

Hour 5-6: Product Listings

- Backend:

- Create a product model in MongoDB.
- Implement CRUD operations for products via API endpoints.

- Frontend:

- Create a product listing page using React.
- Fetch product data from the backend and display it.
- Use Redux to manage the state of products.

Hour 7-8: Shopping Cart

- Backend:

- Create endpoints to add, update, and remove items from the cart.

- Frontend:

- Implement a shopping cart using Redux.
- Allow users to add products to the cart from the product listing page.
- Store cart data in the user's session or MongoDB.

Day 2: Additional Features and Enhancements

Hour 1-2: Order Tracking

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- Create an order model and corresponding API endpoints.

- Frontend:

- Implement order history and tracking using React components.
- Display order status and details.

Hour 3-4: Payment Integration

- Backend:

- Integrate Stripe and PayPal APIs.
- Create payment processing endpoints.

- Frontend:

- Create payment forms using React.
- Handle payment flow and update order status after payment.

Hour 5-6: Admin Panel

- Backend:

- Create admin-specific routes and functionalities.

- Add authentication checks to secure admin routes.
Hour 7: Real-Time Product Recommendations
- Backend:
- Use MongoDB queries or third-party services to generate recommendations.
- Frontend:
- Display product recommendations on the product detail page.
Hour 8: Final Testing and Deployment
- Testing:
- Perform end-to-end testing for both frontend and backend.
- Identify and fix bugs.
- Optimize code for performance.
- Deployment:
- Deploy the backend to a service like Heroku.
- Deploy the frontend to Netlify or Vercel.

- Frontend:

- Build a React-based admin panel.

- Implement CRUD operations for product management.