**Project structure:**

Web-store/

├── client/ # Frontend

│ ├── public/

│ ├── src/

│ │ ├── components/

│ │ ├── App.js

│ │ ├── index.js

│ │ └── ...

│

├── server/ # Backend

│ ├── routes/

│ ├── models/

│ ├── controllers/

│ ├── server.js

│ └── ...

│

├── database/ # Database scripts

│

├── package.json # Project dependencies

│

└── README.md # Project documentation

**Frontend (React):** We can use the React framework for building the frontend.

1. Structure for the frontend code:

In the client/src/components/ folder, we should create components for your web store: ProductList, ShoppingCart, and UserAccount.

1. Need to use React Router for navigation, allowing users to browse products and manage their shopping cart.
2. Implement responsive design using CSS or a UI library like Bootstrap.
3. Connect to the backend using API calls (e.g., Axios or Fetch) to fetch product data and manage the shopping cart.

**Backend (Node.js with Express):**

1. Set up a Node.js server using Express.js in the server directory.
2. Define routes for handling user registration, product management, and shopping cart functionality.
3. Implement authentication using libraries like Passport.js.
4. Connect to the database (e.g., MySQL) using an ORM or direct SQL queries. Ensure secure database interactions to prevent SQL injection.
5. Create models for your data (e.g., User, Product, Order) in the server/models/ directory.

**Database (MySQL):**

1. Set up a MySQL database and define tables for our data, such as users, products, and orders.
2. We can use a database migration tool like Knex.js or Sequelize to manage our schema.
3. In the database directory, store SQL scripts for creating tables and seeding initial data.

**Other Considerations:**

1. We need to implement security measures to protect user data, such as using HTTPS, data encryption, and input validation.
2. Deploy our application to a hosting provider (e.g., AWS, Heroku).

**Project Management:**

1. We need to use project management tools like Asana to track tasks, progress, and team collaboration.
2. Discuss, truck time, use framework