Assignment Eighteen

Please read:

- This is your eighteen assignment which you need to submit on the LMS. This is an assignment on Redux.

- Work on the questions given below and be ready with your solution. You have to submit your codesandbox link below on this page.

- Late Submission: The deadline to submit this assignment is 19th February 2024, 6:00PM IST.

Important Instructions:

1. Make sure that you follow the rules as it will help you build your muscle.

2. Do not copy from someone else as that would be cheating.

challenge

1. Introduction

Purpose

The purpose of this document is to outline the requirements and specifications for the development of an Inventory Management App. This app aims to help businesses efficiently manage their inventory, track sales, and generate reports for informed decision-making.

2. Features

- Inventory Management

  - Add Item to Inventory

    - Users can add a new item to their inventory with details like name, quantity, and price.
    - Users can categorize items for better organization.
  - Edit and Delete Items

    - Users can edit or delete existing items in their inventory. Users can update item details, including name, quantity, and price.

- Sales Management

  - Record Sales Transactions

    - Users can record sales transactions by specifying the item sold, quantity, and price. The app calculates the total revenue for each transaction.
  - View Sales History

    - Users can view a list of past sales transactions, including item details and total revenue. Users can filter sales history by date range.

- Reporting and Analytics

  - Inventory Reports

    - Users can generate reports that display current inventory levels, including item names, quantities, and categories.
  - Sales Reports

    - Users can generate reports that display sales data including revenue, item names, and quantities.

3. API Endpoints

1. Adding an Item to Inventory

Endpoint: `/api/items`

- Method: POST
- Description: Allows users to add a new item to the inventory.

- Request Body:

    - `name` (string, required): Name of the item.
    - `quantity` (integer, required): Quantity of the item.
    - `price` (float, required): Price of the item.

2. Fetching Items from Inventory

Endpoint: `/api/items`

- Method: GET
- Description: Retrieves a list of all items in the inventory.

3. Adding a Sale

Endpoint: `/api/sales`

- Method: POST
- Description: Allows users to add a new sale.
- Request Body:

    - `description` (string, required): Description of the sale.
    - `amount` (float, required): Amount of the sale.

4. Fetching Sales

Endpoint: `/api/sales`

- Method: GET
- Description: Retrieves a list of all sales.

Add other necessary endpoints as required by your features.