# Take-Home Project: Financial Data Filtering App

# **Objective:**

Build a financial data filtering app using data from a single API endpoint. The app will fetch annual income statements for AAPL (Apple) and allow users to filter and analyze key metrics.

## **API Endpoint to Use:**

https://financialmodelingprep.com/api/v3/income-statement/AAPL?period=annual&apikey=<api\_key>

You can obtain a free API key from Financial Modeling Prep

This endpoint returns the annual income statements for Apple Inc., and the response includes key financial data such as revenue, net income, gross profit, and expenses.

# Requirements:

#### 1. Fetch and Display Data:

- Fetch the data from the API endpoint and display it in a table.
- o Include the following columns in the table:
  - Date (e.g., "2024-09-28")
  - Revenue
  - Net Income
  - Gross Profit
  - EPS (Earnings Per Share)
  - Operating Income

#### 2. Filtering:

- Allow users to filter the data using the following criteria:
  - Date Range: Filter results between specific years (e.g., 2020–2024).
  - Revenue: Filter rows where Revenue falls within a user-specified range.
  - Net Income: Filter rows where Net Income falls within a user-specified range.

#### 3. **Sorting**:

- Allow users to sort the table by:
  - Date (ascending/descending).

- Revenue (ascending/descending).
- Net Income (ascending/descending).

#### 4. Responsive Design:

 Ensure the app is mobile-friendly and looks good on both desktop and mobile devices

### **Technical Requirements:**

- 1. Frontend:
  - Use React (JavaScript or TypeScript).
  - Styling should be implemented with TailwindCSS.
- 2. Backend (Optional):
  - If you wish to filter data on the server side instead of the frontend, implement a simple backend using Python (Flask or FastAPI).
  - o The backend should:
    - Fetch data from the API.
    - Handle filtering and sorting based on user requests.
    - Expose an endpoint for the frontend to fetch filtered data.
- 3. Deployment:
  - Deploy using Vercel, Netlify, GitHub Pages, AWS or any service you prefer

#### **Deliverables:**

GitHub repository containing:

- Source code for the project.
- A README file with:
  - o Instructions to run the project locally.
  - o A link to the deployed app.

#### **Submission Deadline:**

Please submit the assignment by January 12, 2025, at 11:59 PM PST.