CAPSTONE IDEAS

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Capstone Final Project

Springboard

University Of Massachusetts Global.

Project Ideas

-Weather Forecasting app

-Fitness Tracking App

-Ecommerce Platform

Project Description

Weather Forecasting App

This project involves building a **full-stack weather app**. The app allows users to search for current weather information and a 5-day weather forecast for any city. It fetches weather data from the **OpenWeatherMap API** through a custom back-end server, ensuring a clean separation of front-end and back-end responsibilities.

Key Features

1. **Search Weather by City**: Users can enter a city name to get real-time weather data.
2. **Current Weather Data**: Display temperature, weather conditions, humidity, wind speed, etc.
3. **5-Day Forecast**: Provide a detailed 5-day weather forecast with high and low temperatures.
4. **Favorite Locations** (Optional): Users can save favorite cities for easy access.
5. **Responsive Design**: Ensure the app looks great on mobile, tablet, and desktop devices.
6. **Error Handling**: Gracefully manage invalid inputs or API errors (e.g., city not found).

Fitness Tracking App

- **Description**: A mobile app where users can log workouts, track fitness goals, and monitor progress. Features can include workout recommendations, progress charts, and social sharing.
- **Challenges**: Tracking user fitness data, building efficient algorithms for recommendations, and providing personalized workout plans.

E-commerce Platform

Description: Build a full-fledged e-commerce platform where users can browse products, add them to a shopping cart, and check out. Admins can add products, track inventory, and manage orders.

- **Challenges**: Handling payments securely, managing inventory, and designing a robust and scalable back-end.