Project-2

Overview

You will develop three separate applications: a Recipe App, a Movies App, and a Weather App. Each application will be built with HTML, CSS, and JavaScript. You'll also utilize various free APIs to fetch data dynamically.

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1. Recipe App

Features:

- **Search Functionality:**
  - Users can search for recipes by entering ingredients or dish names.
  - Auto-suggest feature that shows recipe names as the user types.
- **Display Recipes:**
  - A grid layout showing multiple recipes with images, names, and preparation times.
  - Each recipe card should include a short description.
- **Recipe Details Page:**
  - When a recipe is clicked, it opens a modal or a new section displaying:
    - Ingredients with quantities.
    - Step-by-step cooking instructions.
    - Nutritional information (calories, protein, fat, etc.).
    - User ratings and reviews (optional).
- **Favorites Feature:**
  - Users can save recipes to a "Favorites" list for easy access later.
  - Implement local storage to retain favorite recipes even after refreshing the page.

API:

- **Spoonacular Recipe API (firstly need to take apiKey)**

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2. Movies App

Features:

- **Search Functionality:**
  - Users can search for movies by title.

    - Auto-suggest feature that shows movie titles as the user types.
- **Display Movies:**
    - A grid layout showing multiple movies with posters, titles, and release dates.
    - Option to sort movies by popularity, release date, or rating.
- **Movie Details Page:**
    - When a movie is clicked, it opens a modal or a new section displaying:
        - Synopsis of the movie.
        - Rating and runtime.
        - Cast and crew information.
        - User reviews (optional).
        - Trailers or clips (optional).
- **Watchlist Feature:**
    - Users can add movies to a "Watchlist" for future viewing.
    - Implement local storage to retain the watchlist even after refreshing the page.

API:

- **The Movie Database (TMDb) API (firstly need to take apiKey)**

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3. Weather App

Features:

- **Search Functionality:**
    - Users can search for weather information by city name.
    - Auto-suggest feature for city names as the user types.
- **Current Weather Display:**
    - Show current temperature, humidity, wind speed, and weather conditions (sunny, rainy, etc.).
    - Include an icon that represents the current weather condition.
- **5-Day Forecast:**
    - Display a 5-day weather forecast below the current weather.
    - Each day's forecast should include high and low temperatures, weather conditions, and an icon.
- **Location Feature:**
    - Option for users to get the weather for their current location using geolocation.
- **Unit Toggle:**
    - Allow users to switch between Celsius and Fahrenheit for temperature display.

API:

- **OpenWeatherMap API (firstly need to take apiKey)**

Submission Requirements

1. Each application should have:
    - A responsive design using HTML and CSS.
    - Fetch and display data from the corresponding API.
    - Interactive elements using JavaScript (e.g., search functionality, modals).
2. Organize your code in a clear structure:
    - Separate HTML, CSS, and JavaScript files.
    - Use comments to explain your code.
3. Create a README file that includes:
    - A brief description of each app.
    - Instructions on how to run the applications.
    - Screenshots of the applications.

Cheating Policy

- Submissions that have similar designs or code will be considered as cheating and will be penalized according to university policies. Each student is expected to produce original work.

Deadline

- All projects must be submitted by **November 5rd 23:59**.

Submission Instructions

- Details on how to submit your work will be provided later.

Grading Criteria

- Functionality (40%)
- Code Quality (40%)
- Design and User Experience (20%)