

Weather App Strength and Weaknesses

Users can reach real-time weather information about any global city through this Weather App. Using this app users can access complete weather data through OpenWeatherMap API by searching for a city name and hitting the search button.

Strengths

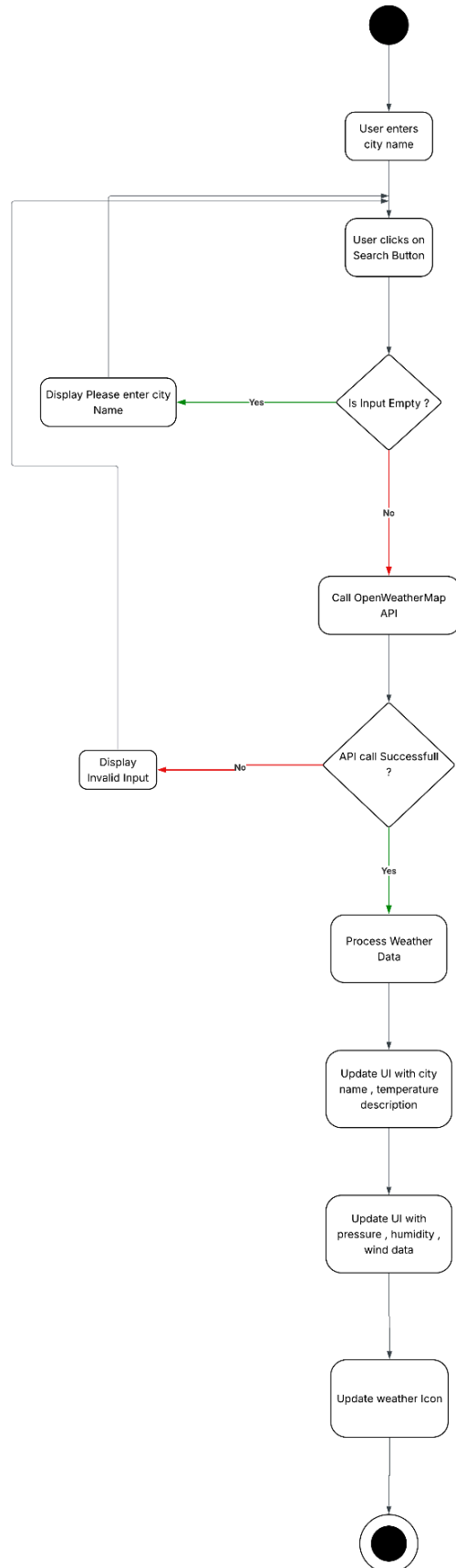
1. Users can easily access weather information because the app contains a clean design with an user friendly interface.
2. Excessive weather data appears in the app with the merger of temperature readings beside atmospheric pressure measurements and humidity values and wind speed and direction indicators for complete weather condition insight.
3. Visual indicators using weather icons that present current conditions enable users to see the weather conditions without reading text therefore enhancing their understanding.
4. The app features error management and handling which shows error messages to users when they submit an incorrect city entry point thus producing a good user journey.
5. The app delivers an appealing design through attractive color selection along with a matching background picture that enhances the weather-centric experience.

Weaknesses

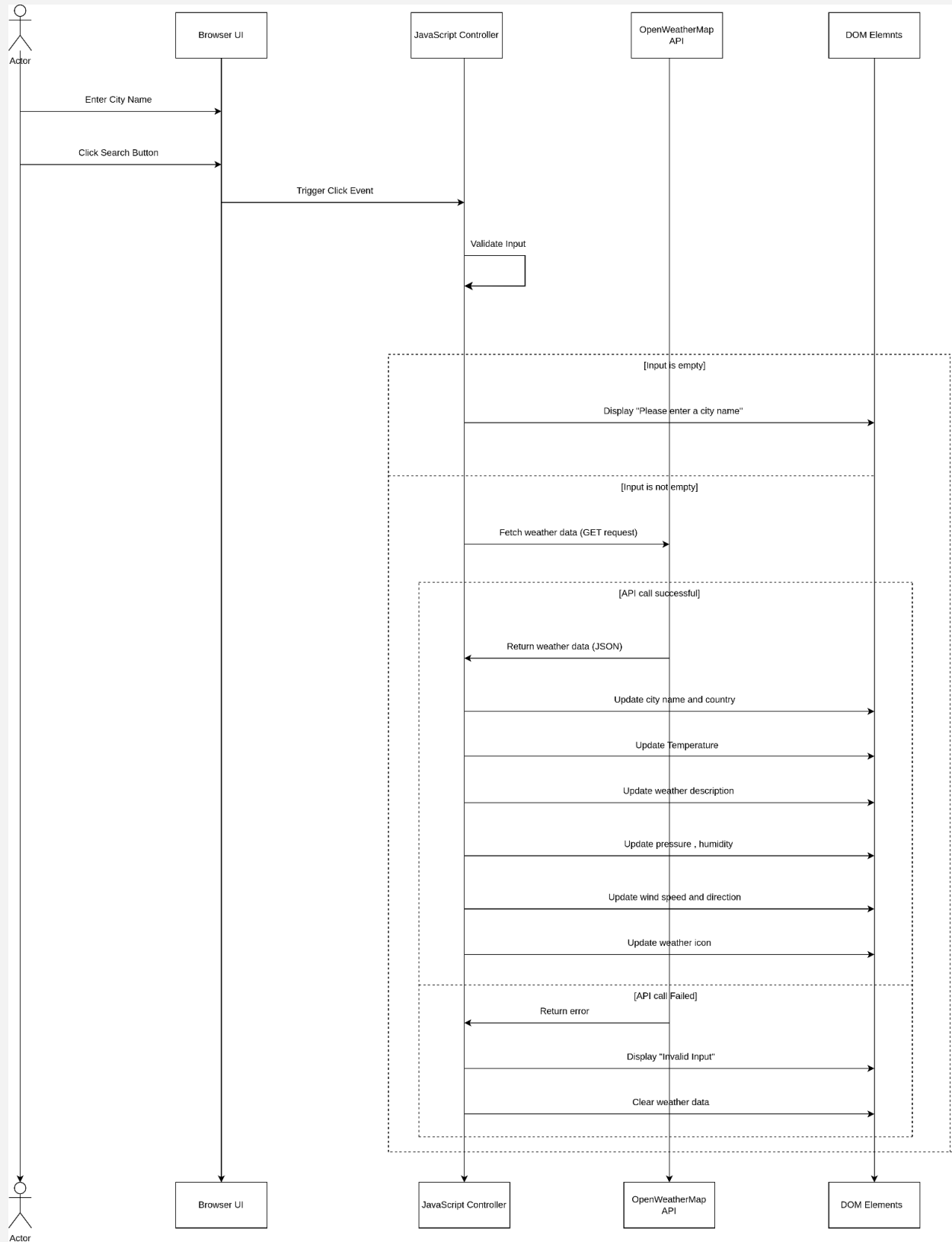
1. The incorporation of the API key directly into the JavaScript file creates a security issue because any person can access this information when s/he inspects the webpage and finds the exposed API.
2. User planning becomes difficult because the application exclusively displays current weather information without any future prediction features.
3. Users need to manually input their city location each time because the app lacks automatic Geo-location functionality.
4. The application restricts accessibility to users throughout the world because it does not include functionality allowing temperature unit conversion from Celsius to Fahrenheit or other metrics.

5. The width limitations in some design components cause performance problems when the web app runs on mobile devices as well as devices with small screen sizes. This negatively impacts the overall responsiveness of the application.
6. The application lacks user data storage which forces users to re-enter their common city searches every time they want to check the weather conditions again.

1. Activity Diagram



2. Sequence Diagram



3. Deployment Diagram

