



4CS017 Prototype-1

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Assignment Submission Date: Thursday, 09

April 2025

Word count:330

Reflective Report on the Weather Web Application

The process of making this website was an incredibly valuable moment for me, as it provided me a to improve in technical skills which helped me to understand mine strengths and area which needs more improvement.

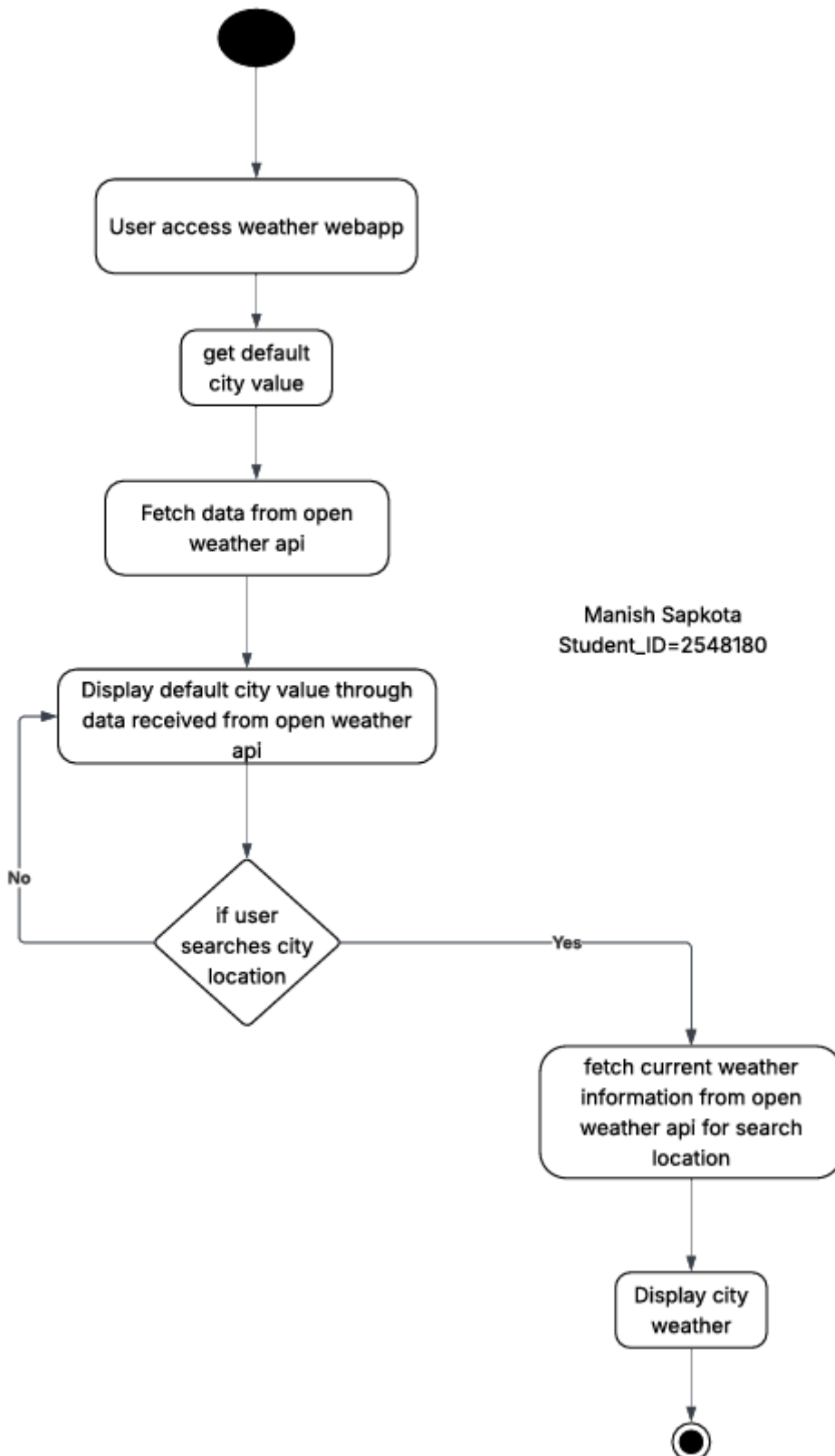
Strengths:

This web application stands out form others as it is more visually appealing and responsive having used new CSS version and techniques such like flexbox and container queries. It provides real time weather updates using open weather Api. This does not allow any error on data that are presented to the user in this website. It has more dynamic backgrounds it changes background image based on current weather condition it makes more appealing to use. Website is more user friendly as it is easy to navigate. Search bar is placed at top making it easier to search for a city. Layout used for application is easier for human eyes as it is organized and distinct section such as (temperature, weather status, pressure, wind speed and wind direction). The user experience is further elevated by help of JavaScript make interactions smooth. The codebase uses data Fetch and timeline, which contribute to scalability. Furthermore, incorporation of asynchronous function with async and await ensures data being fetched and showing any error removing delays and enhancing user experience.

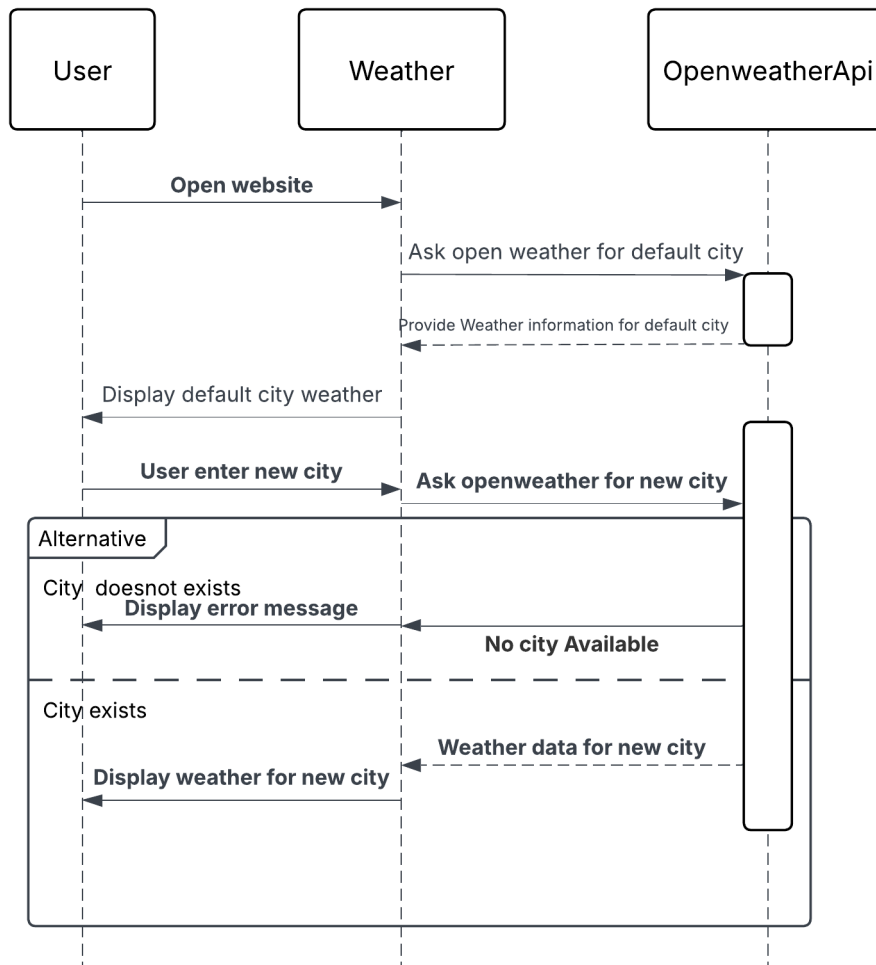
Weaknesses:

As one notable weaknesses of my web application is not having 7 day forecast or hourly weather predictions due to which it does not provide user more comprehensive information. Another is it limited error handling as it only has one error handling e.g. if user inputs wrong city name it provide an alert to user enter a correct city. Performance is also an area to improve as it fetches data from open weather Api it may be slower or might even fail to retrieve weather data and background image takes time to load depending on user internet speed. User can not customize their experience as there is for example choosing different units such as (Celsius or Fahrenheit).

Uml Diagram:



Sequence Diagram:



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Deployment Diagram:

