

UNIVERSITY PARTNER



Weather App Report

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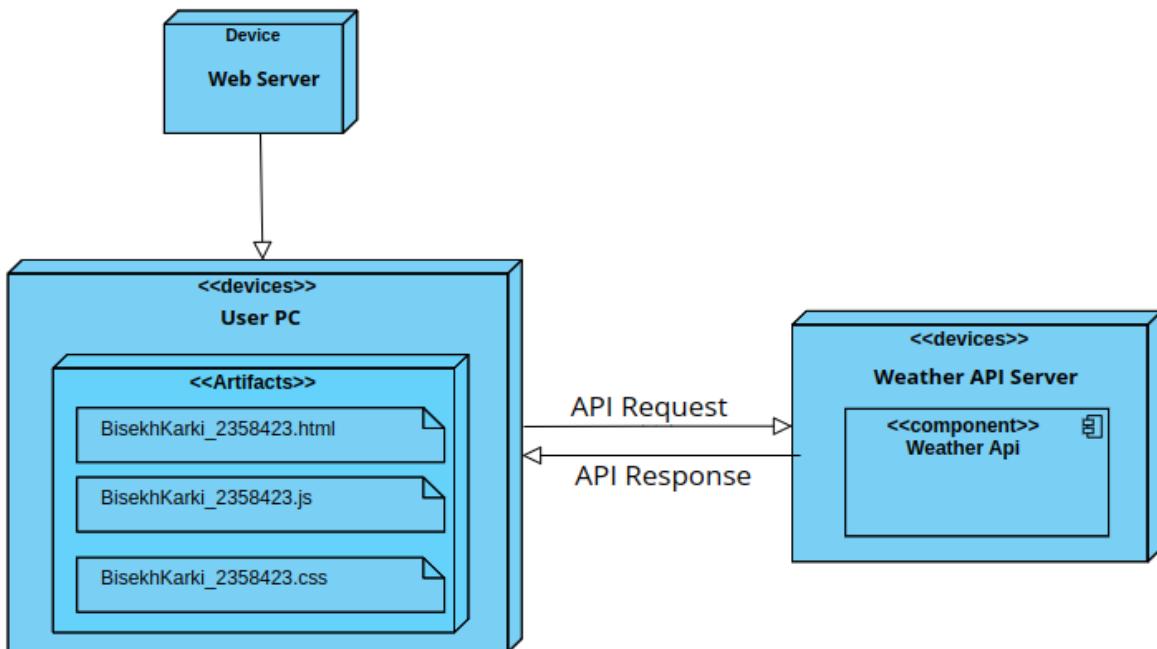
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1. Prototype-1

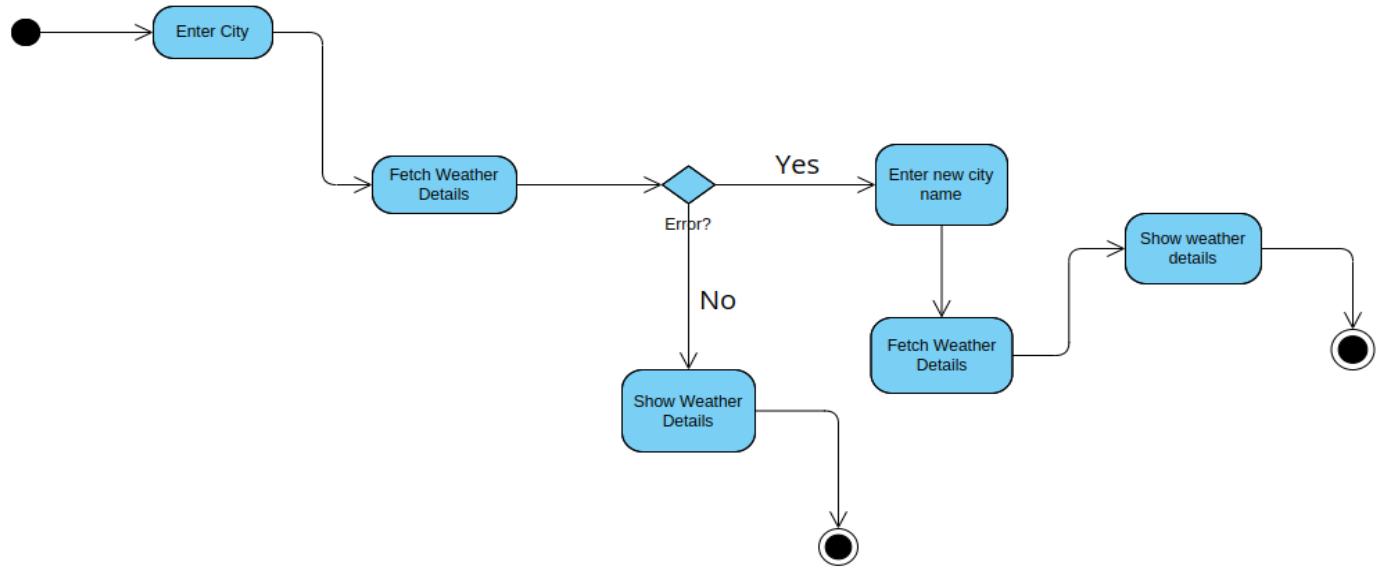
In the first prototype our task was to display the weather details of different cities. To display the weather details, We had to fetch the data from the open weather api using the api key. I created the web page using HTML/CSS and JavaScript. Through the JavaScript I fetched the data from the open weather api and displayed it using HTML. To make the webpage responsive and better looking I used CSS. Also, an input box and a search button is added in HTML for searching different cities.

1.1 UML Diagrams

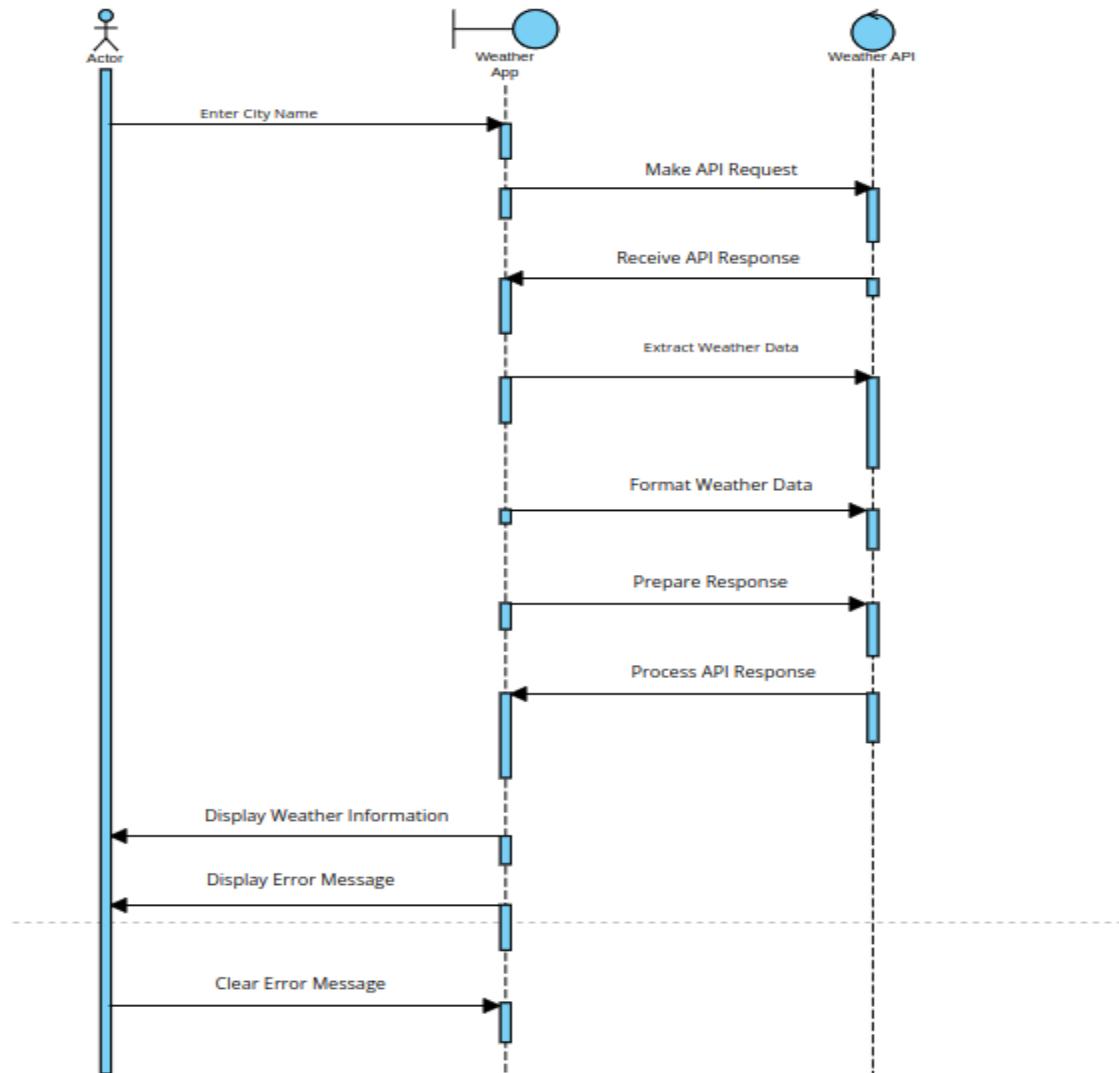
1.1.1 Deployment Diagram



1.1.2 Activity Diagram



1.1.3 Sequence Diagram



1.2 Challenges and Learning

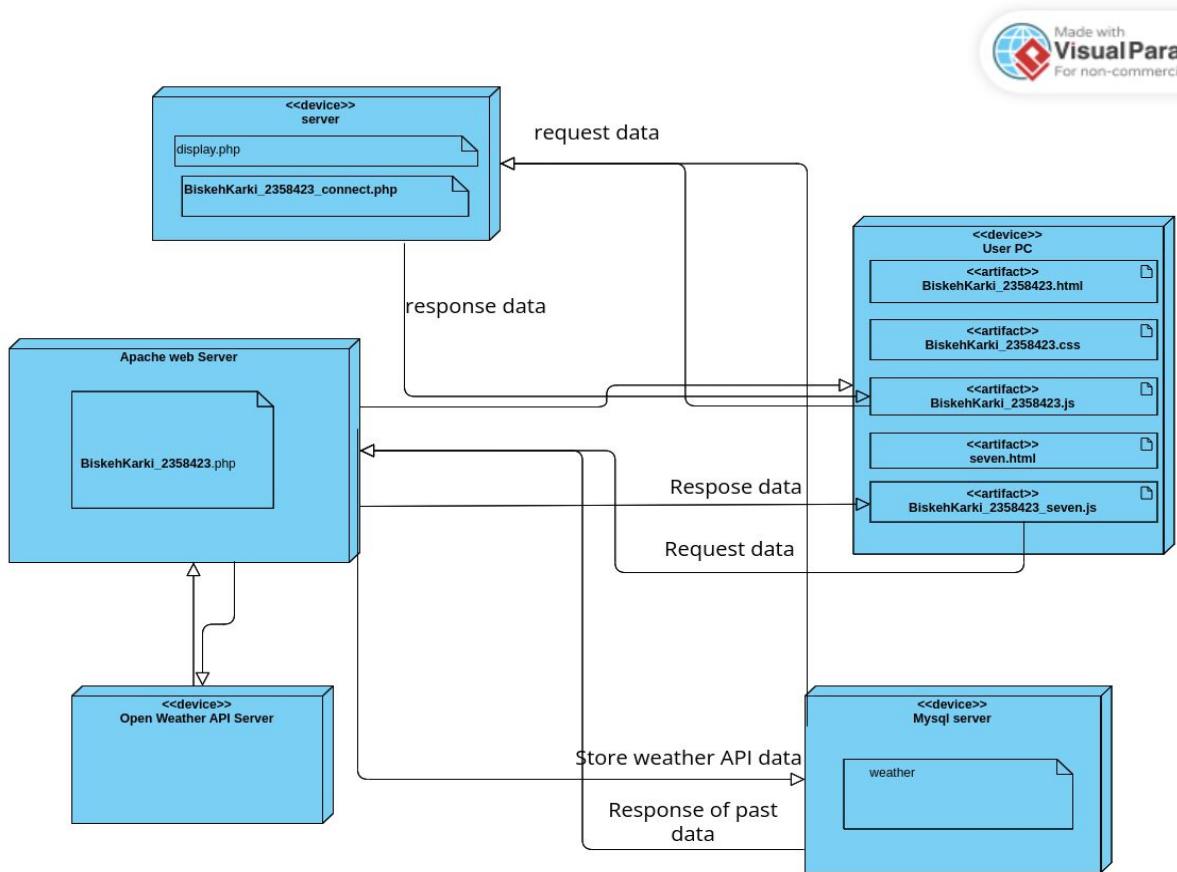
While completing the prototype task-1, I learned on how to fetch the data using API key which was new for me. It was not a difficult task to do, so I was able to complete the task properly.

2. Prototype-2

Prototype 2 was a difficult task. While completing the task I had to store the data that I fetched searching a city into the database using the javaScript, and php. From JS we had to send data to php and from php we had to store the data into the database. Also, from the database after storing the 7 days data. We had to retrieve the stored data of 7 days to the frontend. This was all about the task we had to do during prototype 2.

2.1 UML Diagrams

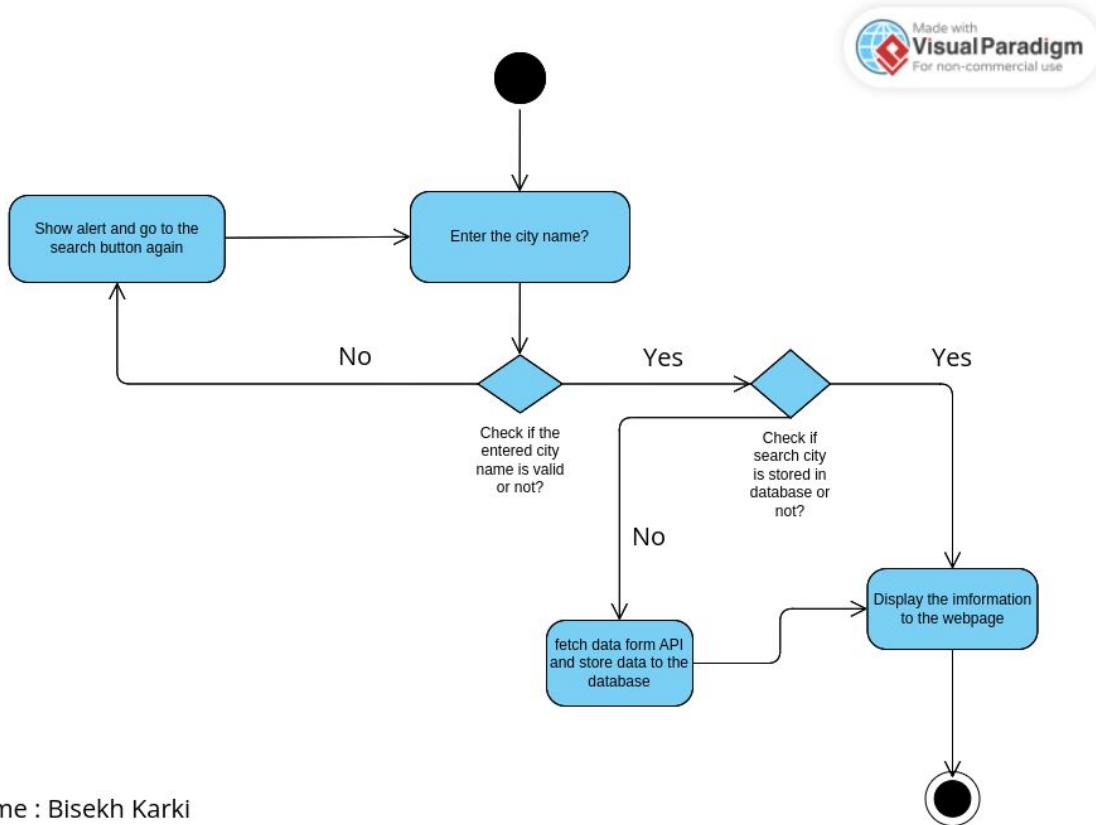
2.1.1 Deployment Diagram



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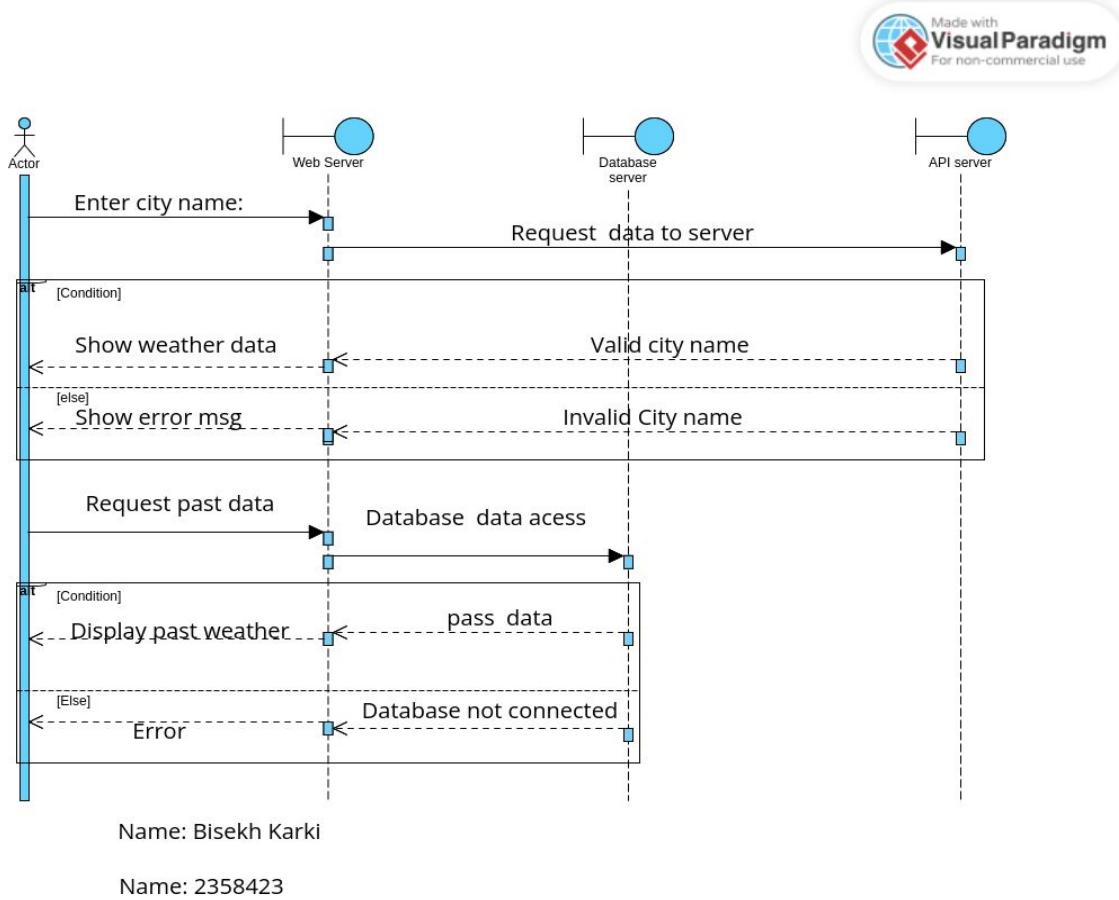
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2.1.2 Activity Diagram



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2.1.3 Sequence Diagram



2.2 Challenges and Learning

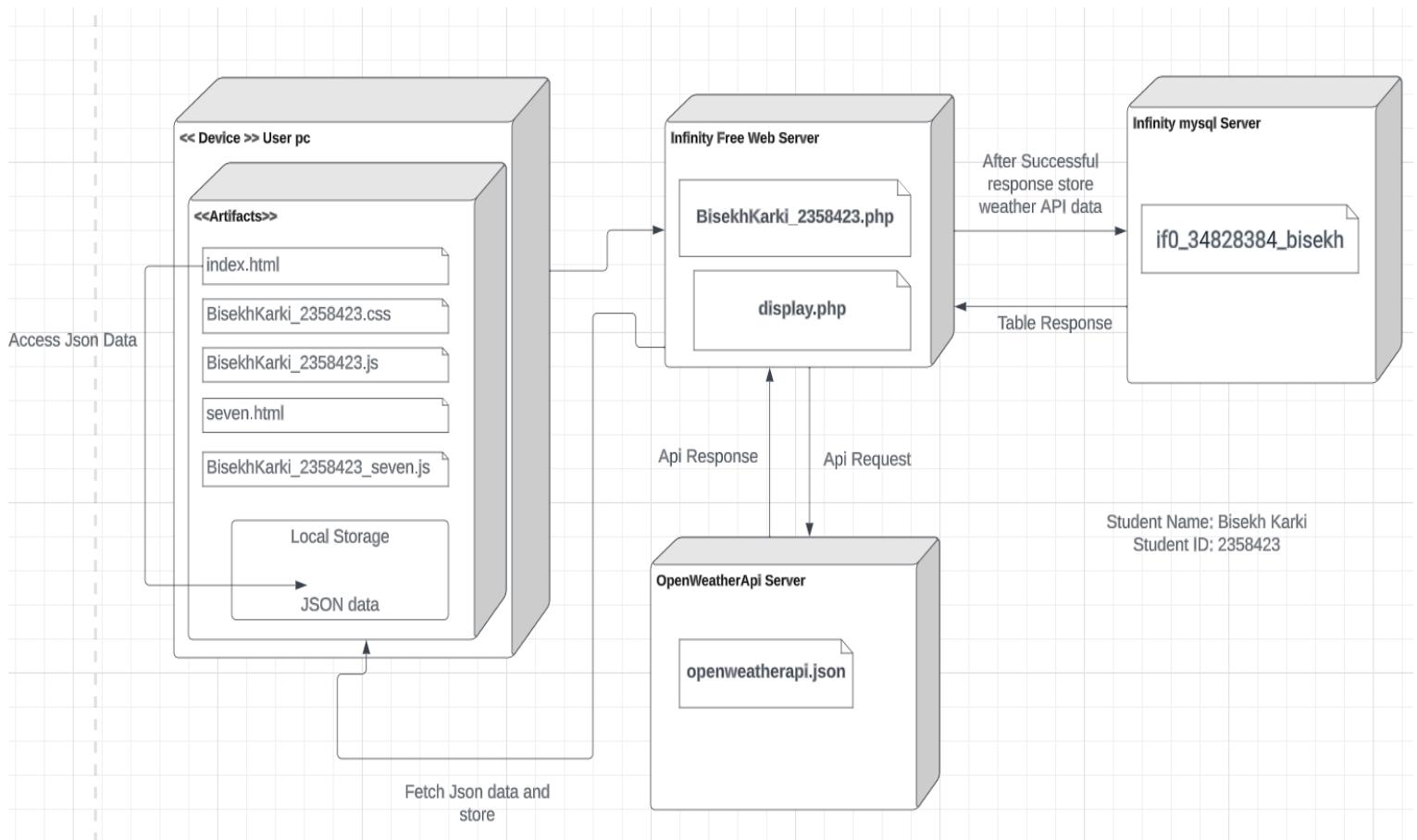
While completing the prototype-2 task to store the data to the database and again get the data from the database was the difficult task. However after completing the task I get to know how to store and get the data from the database.

3. Prototype-3

In prototype-3 I have used localStorage to store the data in the local storage of the website and get the data from the local storage when there is no internet connection and display the data in the website. The data stored in the local storage is only shown otherwise it displays an invalid city name error while trying to get the data offline. To store the data I have used the localStorage.setItem() function with data.name as value to store the city name in value and data as key to store all the data in key. To get the data I have used the localStorage.getItem() function and inside the function cityname is the parameter to get the data of that city. This is how I was able to complete the prototype-3

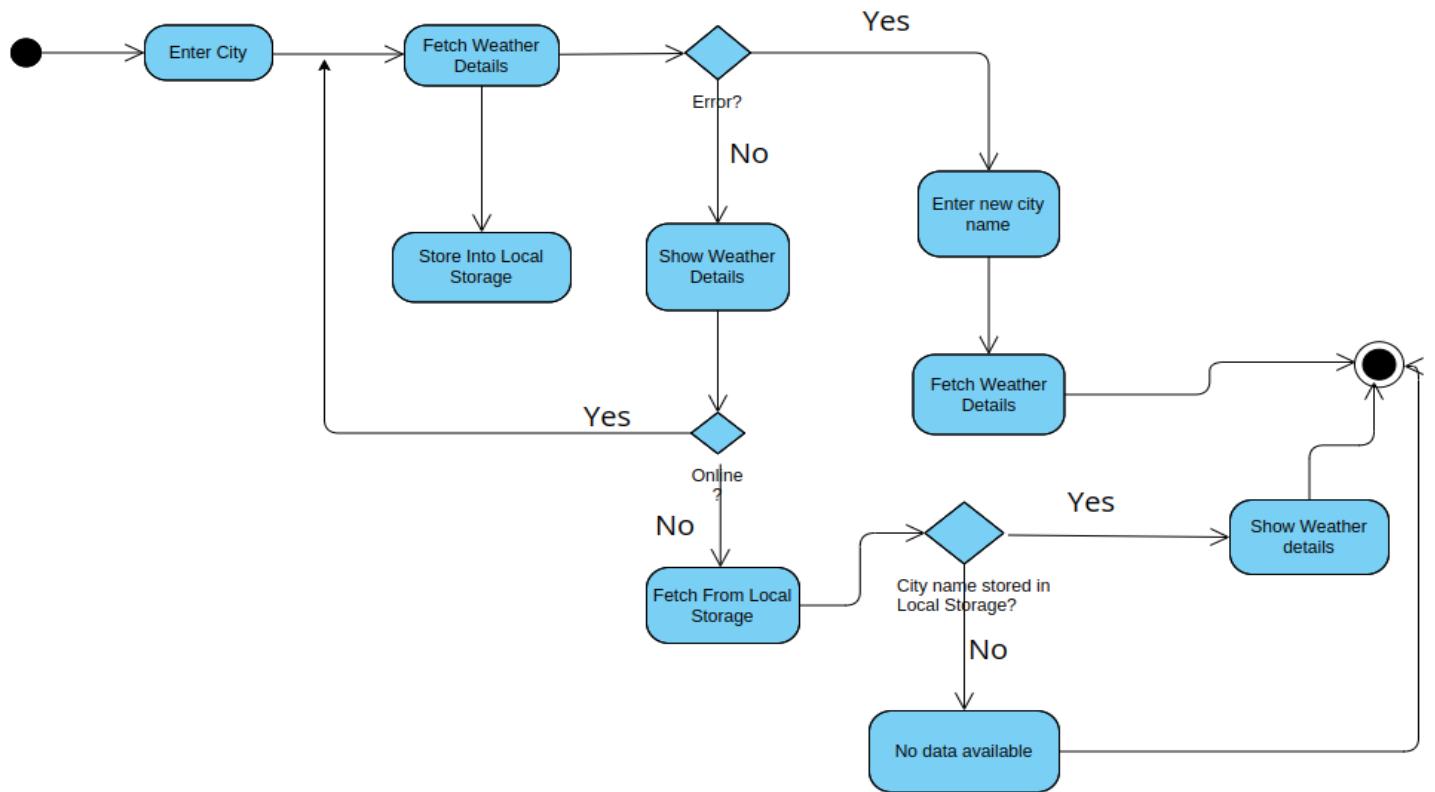
3.1 UML Diagram

3.1.1 Deployment Diagram

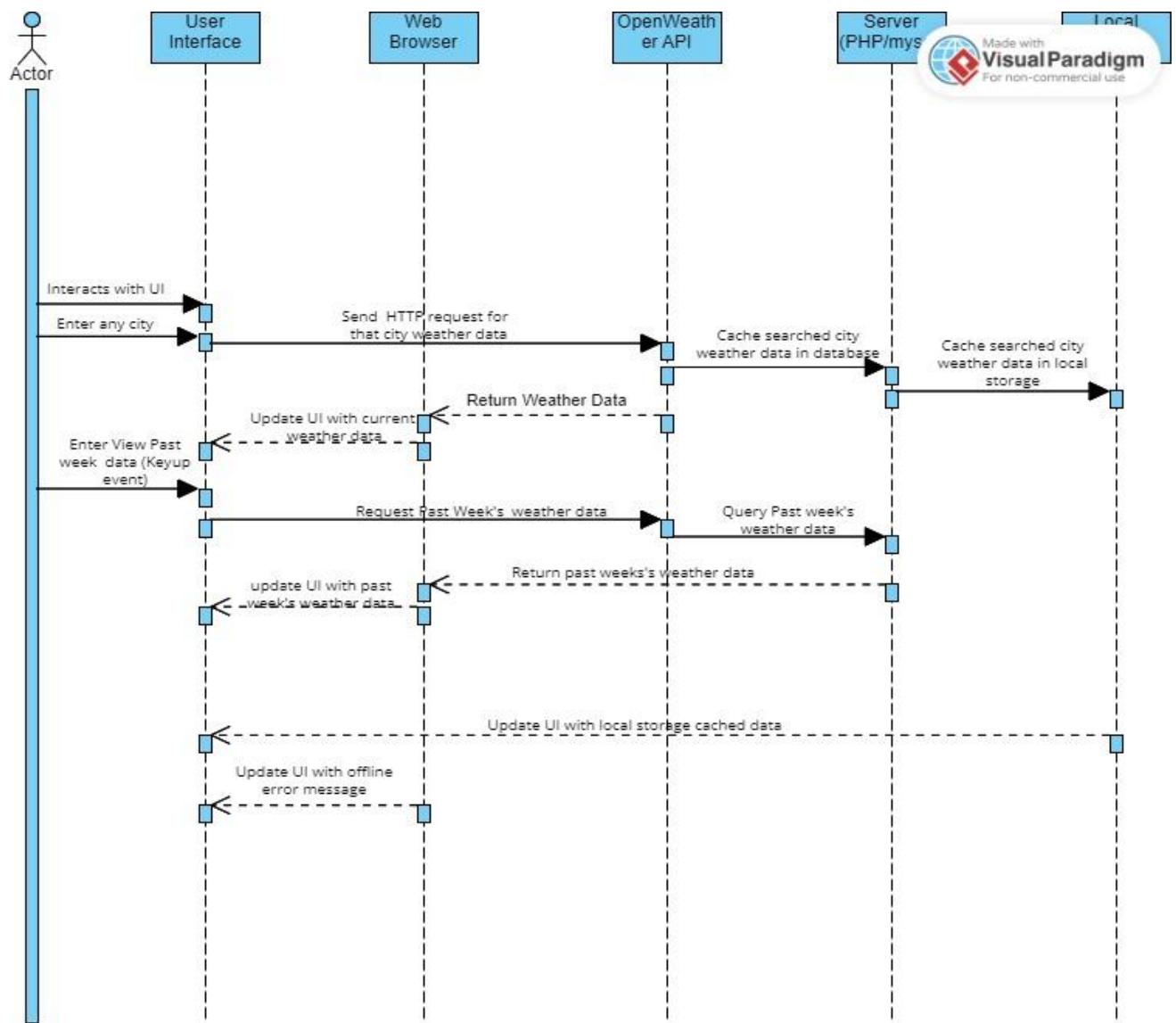


3.1.2 Activity Diagram

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3.1.3 Sequence Diagram

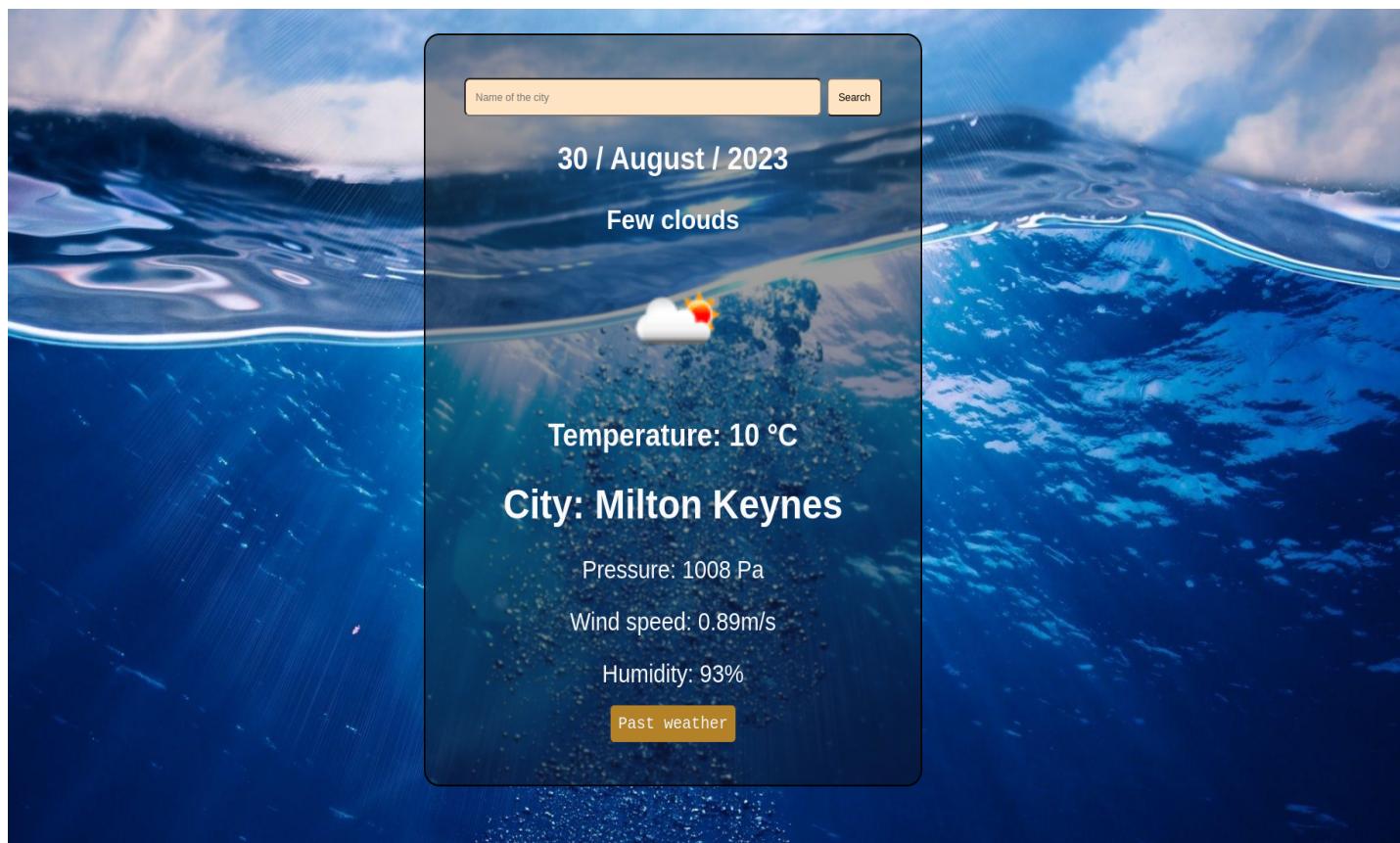


3.2 Challenges and Learning

While completing the prototype-3 task it was not much more difficult than prototype-2. All I had to do was to store the data into localstorage, and when offline show the data that was stored in the local storage of the website, so I completed the task properly.

4. Hosting

For the hosting I have used infinity free where I have uploaded all my codes. To host the website infinity free provides a link which directs to the main page of the website where we can see the weather details of a city. For the data to store and fetch data from the website I have exported the database from the localhost and imported it to infinity free. Also changed the server name, password, database, user in all the php files that I uploaded in infinity free.



The above image is the website that I hosted with infinity free.

5. Link to the website

bisekhweather.infinityfreeapp.com