Weather Project report

SHUXRAT TOXTAMISHOV

2427309

**Link to the GitHub:** https://github.com/shuxratcs/weatherApp.git

**1 Introduction**

In the third assignment, there is a task to create cache memory in the local host of a web browser for saving the assigned city data (in my case: Plymouth), using my second prototype of a Weather Application website. Moreover, after understanding that cashing works, - means that after local website runs, turns off wi-fi connection and refreshes, get data from the temporary cash saved in advance, we should upload all materials: codes, proof screenshots, diagram and report in GitHub and provide only it’s source code link. To conduct, I need to work with java script, check all connections and upload to GetHub.

**2 Strength**

From the beginning, I decided to change my previous java script code, shorten and beautify it using jQuery library. Code simplified and compound into functions like displayLastWeatherData, fetchWeatherData, ready type functions and so on, plus case const like weatherImages make code easier to work. Plus make css in alphabetical order. But the main strength is that as I run myWeatherDBAPI, DataToDatabase java codes and pgadmin4, hence PostgreSQL weather\_data table shows data and my Weather Application website, last data (last row data from the table) saved into cash memory. And when I turn off everything and wi-fi connection and reload the website, nothing is lost as data is being held from the cache.

**3 Weaknesses**

In terms of code, there are some weaknesses, like data transition and holding in many places which may cause some errors. Moreover there are many libraries in json code that initially should be checked and if some problem occurs we should look in documentation and find misunderstood parts. Mentioning the final version of the project, it’s not actual, but mostly for study purposes. Information dependency on latitude and longitude, search, server deployment and more. Nevertheless, the main logic and view is clear and I will continue to grow learning other staff like java script and java connection.

**4 Evaluating experience**

In total, the project I made showed me the overall view of how weather applications and websites work. In practice, show me how we create connections between Front-end (HTML and CSS) with Back-end (Java script, JSON and Java) and local Database (PostgreSQL) and temporary browser cache memory. Learning concept was fun and totally will help me in future web-development projects and analyzes.