**Technical documentation of “Foreca Weather” project**

Project name: “Foreca-Weather”.

2021-02-20

**Project overview**

The main purpose of this project is to develop a weather forecast application using “Foreca Weather” API. The application must provide the user with the necessary information about the weather forecast in different cities. User must receive the following information after entering the city’s name:

* Search results should be listed below up to 5 locations;
* Current weather conditions for selected location;
* 7 days forecast for the same selected location;
* Going back should preserve previous search results;

"Foreca Weather" API: (<https://rapidapi.com/foreca-ltd-foreca-ltd-default/api/foreca-weather/>).

**Software**

“Foreca Weather” application was built with:

* “React” v17.0.2;
* “React-redux” v7.2.6;
* “@reduxjs/toolkit“ v1.7.2;
* “React-Dom“ v17.0.2;
* “React-Router-Dom“ v5.3.0;
* “Styled-Components“ v5.3.3;

**Project Management**

Project source code is placed in GitHub:

<https://github.com/AugustasKl/Foreca-Weather>

**Installation instructions**

* Clone a GIT Repository from <https://github.com/AugustasKl/Foreca-Weather>.
* Run “npm install“
* Start application by writing a command “npm start“

**Testing**

**Unit Testing**

A couple of Unit tests were written in order to check if the "Foreca Weather" API was working properly. Also two Unit tests were written to check if the pages render specific DOM elements.

**Technical Problems**

There were some technical issues with the "Foreca Weather" API during the development of this project. The aforementioned API has a limited request call count which prevents the software developer from building the application properly.

The solution to this problem would be to purchase a premium API plan or contact “Rapid API“ representatives to remove request limits for the developers.

**Additional Information**

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