**WEATHER APP ASSIGNMENT**

**Description**

Weather app is app used to display forecast from OpenWeatherMap API service for browser location. User can use two routes. First one is home page and data there is displayed only for current date, and second one is /four-days, where data is displayed for next 4 days.

**Tech stack**

* Angular 14
* NgRx

**Start app**

To start the app you need to run front end. To start front end you need to clone project from github repository, then go to **weatherAppAngular** and in terminal first run command **npm install** and then **npm start**, the app will start on port 4200

In **weatherAppAngular/src/app/components/utils** there is a file **api-key.ts** where you can enter you API key for OpenWeatherMap API service.

**Frontend methods**

On front end there are several components:

* Show weather (current forecast, four days forecast)
* Dialogs (content-dialog, processing-dialog)
* 404

**Show weather**

**getCurrentForeacast(lat: number, long: number)** - Get weather data for current day

     \* @param lat - latitude of location

     \* @param long - longitude of location

**getFourDaysForecast(lat: number, long: number)** - Get four days forecast for required location

     \* @param lat - latitude of location

     \* @param long - longitude of location

**getLocation()** - Get location from browser

**getPosition()** - Get coordiantes for location or return any error that occurs

**getDialogRefData(title: string, message: string)** - Get data for content dialog

     \* @param title - dialog title

     \* @param message - dialog message

**getTemperatureDataForEachDay(data: any, city: string)** - Get average temperature for each day

     \* @param data - forecast data from openWeather API

     \* @param city - forecast for this city

**getDisplayDataForEachDay(forecastObject: any)** - Get avrege temperature, minimum and maximum temperature for each day

     \* @param forecastObject - object of data group by date

**getTemperatureFromCurrentWeather(data: any**) - We should only save temperature for current date and info about weather from data that we get from openWeather API

     \* @param data - data from openWeather API

**getWeatherData(weatherArray: Weather)** - Get weather info

     \* @param weatherArray - array that contains required information

**getAllDates(arrayOfTemperatureObjects: TemperatureData[])** – get all dates for four days forecast and put them in array so we can easly access data because keys in forecast object are dynamic

\*@param arrayOfTemperatureObjects – array of objects for each day with average, min, max temperature

**Content dialog**

Open regular dialog when we need to display any kind of message.

**Processing dialog**

Open dialog when we are waiting for the server data.

**404**

Component that is shown if user enter invalid url of the app or some data can’t be found.