FRONT END advance task
Weather radar

Etteplan

Description of the task

- Implement a weather radar application that shows the locations of the Etteplan offices listed below weather data for the current day.

- The application displays the following weather information every three hours: Temperature, Wind speed, Humidity (in percent) and Precipitation (in millimeters).

- The locations of the offices involved are Tampere, Jyväskylä, Kuopio and Espoo.

- Weather data is retrieved from the OpenWeatherMap service.

- Documentation of the interfaces used for the task can be found at https://openweathermap.org/current and https://openweathermap.org/forecast5

- To use the API, you must create IDs in the OpenWeatherMap service. Registration for the service is free.

- The registration form can be found at https://home.openweathermap.org/users/sign_up
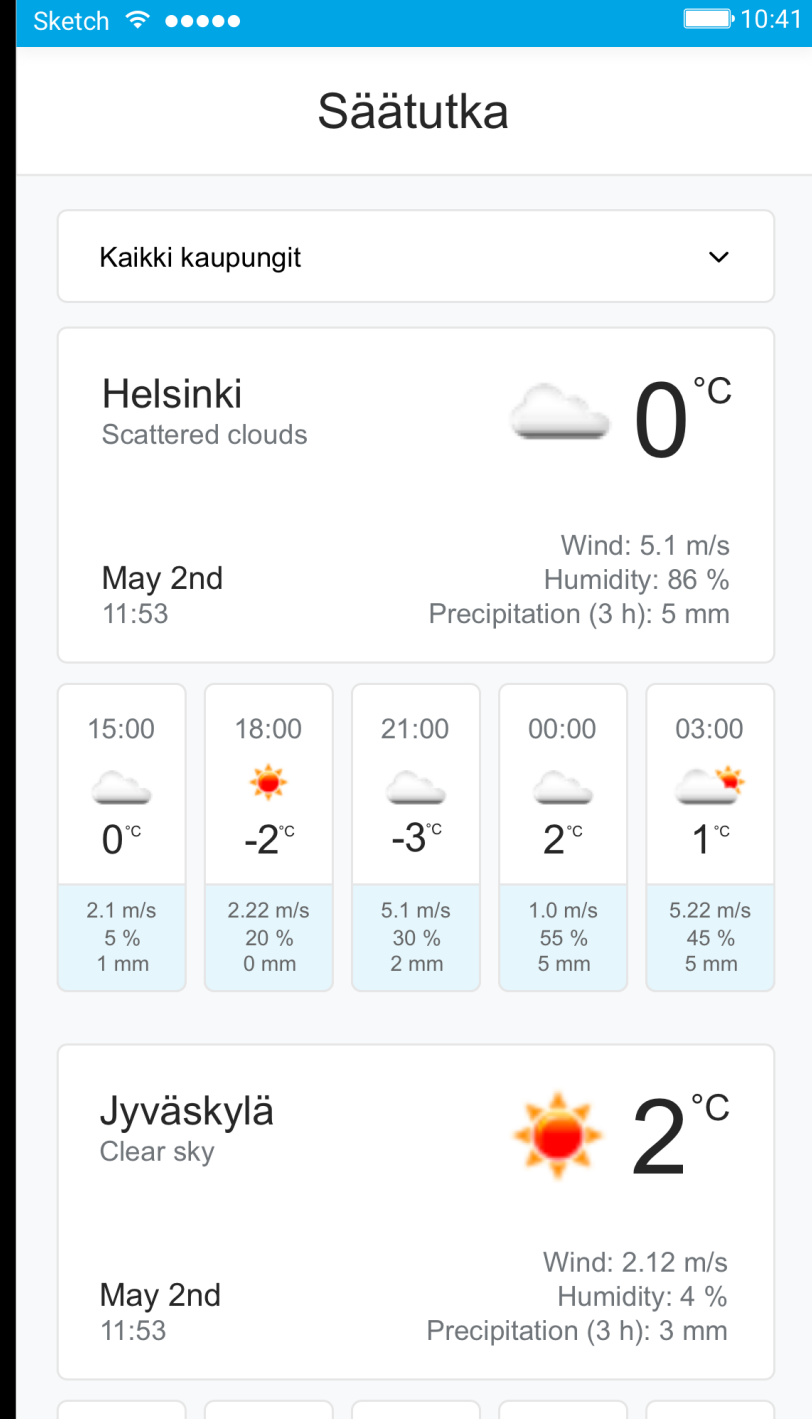
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Considerations for implementation

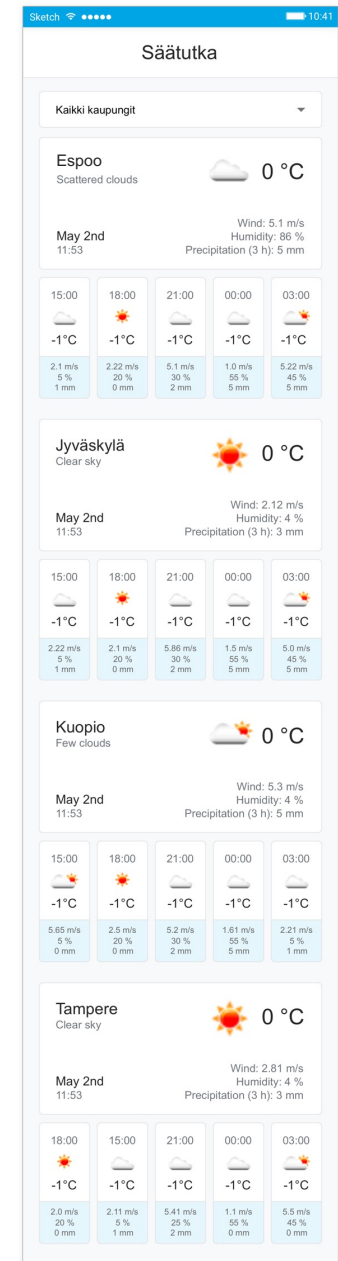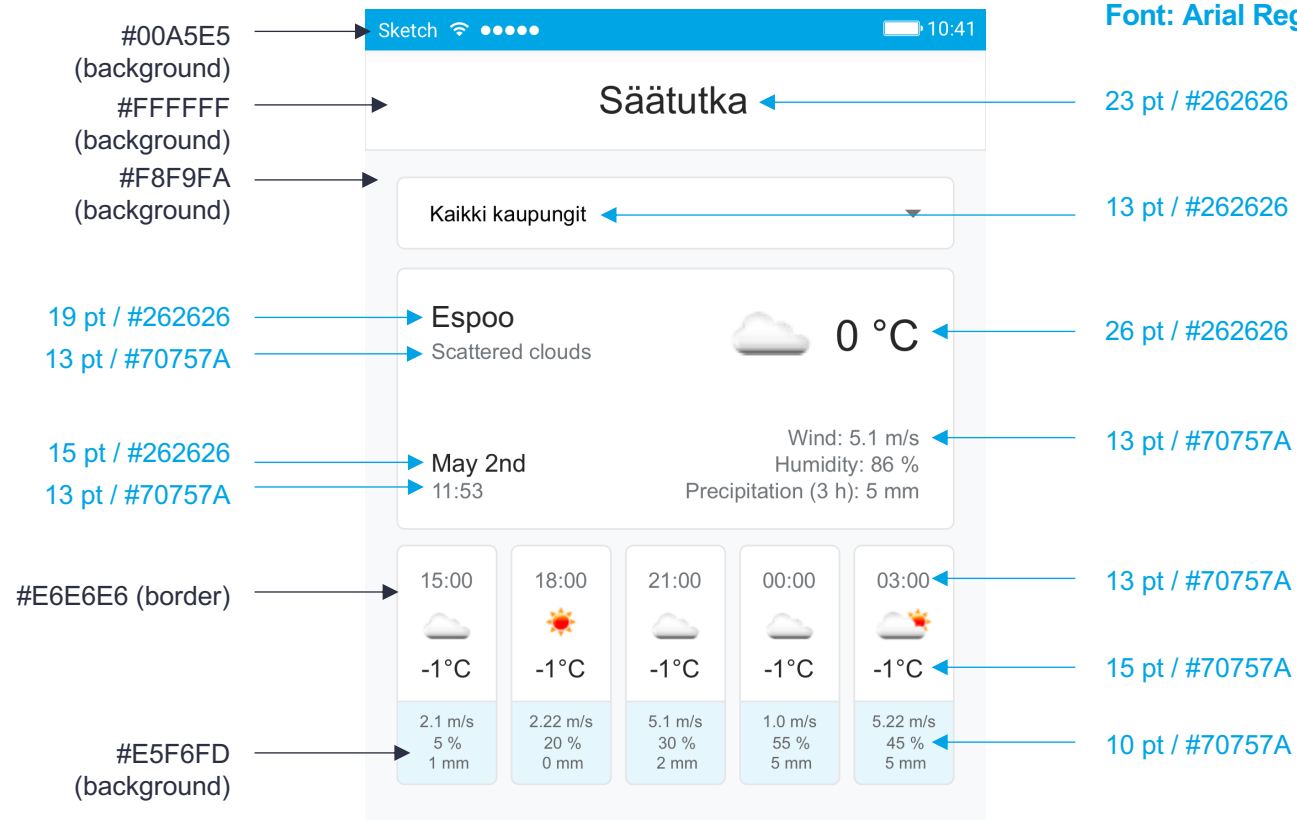We recommend implementing the application using the **React**, **Angular**, or **Vue.js**.

- The free ID can be used to make a maximum of 60 OpenWeatherMap APIs call in a minute.

- Add a readme file to your application to provides instructions for running the application.

- Do not share your OpenWeatherMap API key with the task code. In the readme file, specify where the API key should be assigned.

- Use these city latitudes and longitudes in the interface.

    - Tampere: lat 61.4991, lon 23.7871

    - Jyväskylä: lat 62.2415, lon 25.7209

    - Kuopio: lat 62.8924, lon 27.677

    - Espoo: lat 60.25, lon 24.6667

- Return of a pre-assignment

    - We recommend that you store the task using your own GitHub account.

    - You can also share the codes through something else.

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Application Layout

- Attached is a picture of the user interface we hope to complete the application will look like.

- Develop the application for mobile use. Make sure that the app can also be used in tablet and desktop sizes.

- The response message of the OpenWeatherMap interface also includes the weather icons needed in the user interface.

- The drop-down menu at the top of the interface is used to Select specific city

- weather information. The layout of the drop-down menu must follow standard browser styles.

- The image of the user interface is sent by e-mail attachment

Colors and fonts

Font: Arial Regular

#00A5E5 (background)

#FFFFFF (background)

#F8F9FA (background)

Säätutka — 23 pt / #262626

Kaikki kaupungit — 13 pt / #262626

19 pt / #262626 — Espoo

13 pt / #70757A — Scattered clouds

0 °C — 26 pt / #262626

15 pt / #262626 — May 2nd

13 pt / #70757A — 11:53

Wind: 5.1 m/s
Humidity: 86 %
Precipitation (3 h): 5 mm — 13 pt / #70757A

#E6E6E6 (border)

15:00 18:00 21:00 00:00 03:00 — 13 pt / #70757A

-1°C -1°C -1°C -1°C -1°C — 15 pt / #70757A

2.1 m/s 2.22 m/s 5.1 m/s 1.0 m/s 5.22 m/s
5 % 20 % 30 % 55 % 45 %
1 mm 0 mm 2 mm 5 mm 5 mm

#E5F6FD (background)

10 pt / #70757A

Good luck with the task!