

## Build a weather mood gauge

We would like you to build a small JavaScript weather gauge application. This gauge will represent the weather for the coming 5 days. The gauge can be thought of as a translation of the 5 days of weather data into one number. This number should be between 0 – 100. 100 being good weather and 0 being bad weather. You should write your own algorithm to calculate this number based on data you get from <https://openweathermap.org/api>. The number should be shown in a gauge.

The page should look something like:

Amsterdam | Moscow | New York



A user can switch between three cities, such as Amsterdam, Moscow and New York. The gauge should then be shown the for that city.

Data:

You can use data from <https://openweathermap.org/>

You probably should create a free account there.

API docs: <https://openweathermap.org/api>. You will need "5 day / 3 hour forecast"

Description:

- It should be a single page application using JavaScript. You can use a framework if you want.
- it should have 3 tabs (each tab for one city)
- each city should show it's own weather gauge
- API call to get a forecast should be made only if you select a tab
- by default the 1st tab is active
- Update of the data should be done every 10 minutes. Including not retrieving the data every time the tab is click.
- The gauge should be built in css, less or sass.
- Implement the animation of the gauge on hover as this link shows: [https://digined-my.sharepoint.com/:v:/g/personal/benjamin\\_abiggercircle\\_com/ESHsMAq76fZDjV1bRULawVIBiRf8QQW3EN7h58CnIr4IEg?e=IhFbEt](https://digined-my.sharepoint.com/:v:/g/personal/benjamin_abiggercircle_com/ESHsMAq76fZDjV1bRULawVIBiRf8QQW3EN7h58CnIr4IEg?e=IhFbEt)
- The algorithm for the calculation of the 5 days of weather should be understandable, flexible and maintainable. In future version of the app we would like to have different version of the algorithm.

Extra resources

Best mood:

[https://digined-](https://digined-my.sharepoint.com/:i:/g/personal/benjamin_abiggercircle_com/EdWpJFkYkRILhO23DLbjlvEBU6uwcDQdr7-pZ_zHfliDcA?e=wluP6T)

[my.sharepoint.com/:i:/g/personal/benjamin\\_abiggercircle\\_com/EdWpJFkYkRILhO23DLbjlvEBU6uwcDQdr7-pZ\\_zHfliDcA?e=wluP6T](https://digined-my.sharepoint.com/:i:/g/personal/benjamin_abiggercircle_com/EdWpJFkYkRILhO23DLbjlvEBU6uwcDQdr7-pZ_zHfliDcA?e=wluP6T)

Middle Mood:

[https://digined-my.sharepoint.com/:i:/g/personal/benjamin\\_abiggercircle\\_com/ERqOKIF-vWVDju3C70E4XsYBqUILuJy47wBI-x9xvzDTrg?e=zNOWg7](https://digined-my.sharepoint.com/:i:/g/personal/benjamin_abiggercircle_com/ERqOKIF-vWVDju3C70E4XsYBqUILuJy47wBI-x9xvzDTrg?e=zNOWg7)

Worst mood:

[https://digined-](https://digined-my.sharepoint.com/:i:/g/personal/benjamin_abiggercircle_com/EYgMqvvyMeZCo0buGtcikDAB6nRQHaG1bkQYIaCuZ2PYLg?e=pYJs0i)

[my.sharepoint.com/:i:/g/personal/benjamin\\_abiggercircle\\_com/EYgMqvvyMeZCo0buGtcikDAB6nRQHaG1bkQYIaCuZ2PYLg?e=pYJs0i](https://digined-my.sharepoint.com/:i:/g/personal/benjamin_abiggercircle_com/EYgMqvvyMeZCo0buGtcikDAB6nRQHaG1bkQYIaCuZ2PYLg?e=pYJs0i)