

# EN 2020-11 Web - Vollzeit - Weather App

Recruiting

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# 1 Welcome to our trial day!

We appreciate the time you put into it. We value our employees and our customers. It is important to us to identify as a homogenous team, able to move mountains. Every employee contributes to excite our customers. That is the reason you are here today - to show us that you want to go this way together with us.

## 1.1 What is this about?

During your trial day a small weather application is to be created.

For this, a hypothetical customer created a few user stories. Respect the customers stories and choose your own way of implementing things. It is important to keep your customer happy and fulfill all his user stories. We have created some screen designs to help you with the start of your project.

## 1.2 Methodology

Our favorite tech stack is **.NET core or Node.js with TypeScript in the backend and React with TypeScript in the frontend.**

You will be confronted with these technologies on a daily basis and thus should be able to finish this project using these technologies.

Show us that you are not a person of fast solutions but one who thinks things through. Deliver the project like a good developer does. Function is just one side of the coin. A good documentation in and to the code and recreation of the development state (Docker) is also important to you and us.

## 1.3 What's the weather going to be like?

Ask this API: <https://openweathermap.org/>, an account to use the interface already exists. This is the API-key: **b73b624979a3ffaa51d0475f04bccd85**

A documentation to the interface and to the delivered weather-icons is to be found here: <https://openweathermap.org/weather-conditions>

Please don't use the default low-res images of OpenWeatherMap but replace them with the provided assets that we send you via email [1].

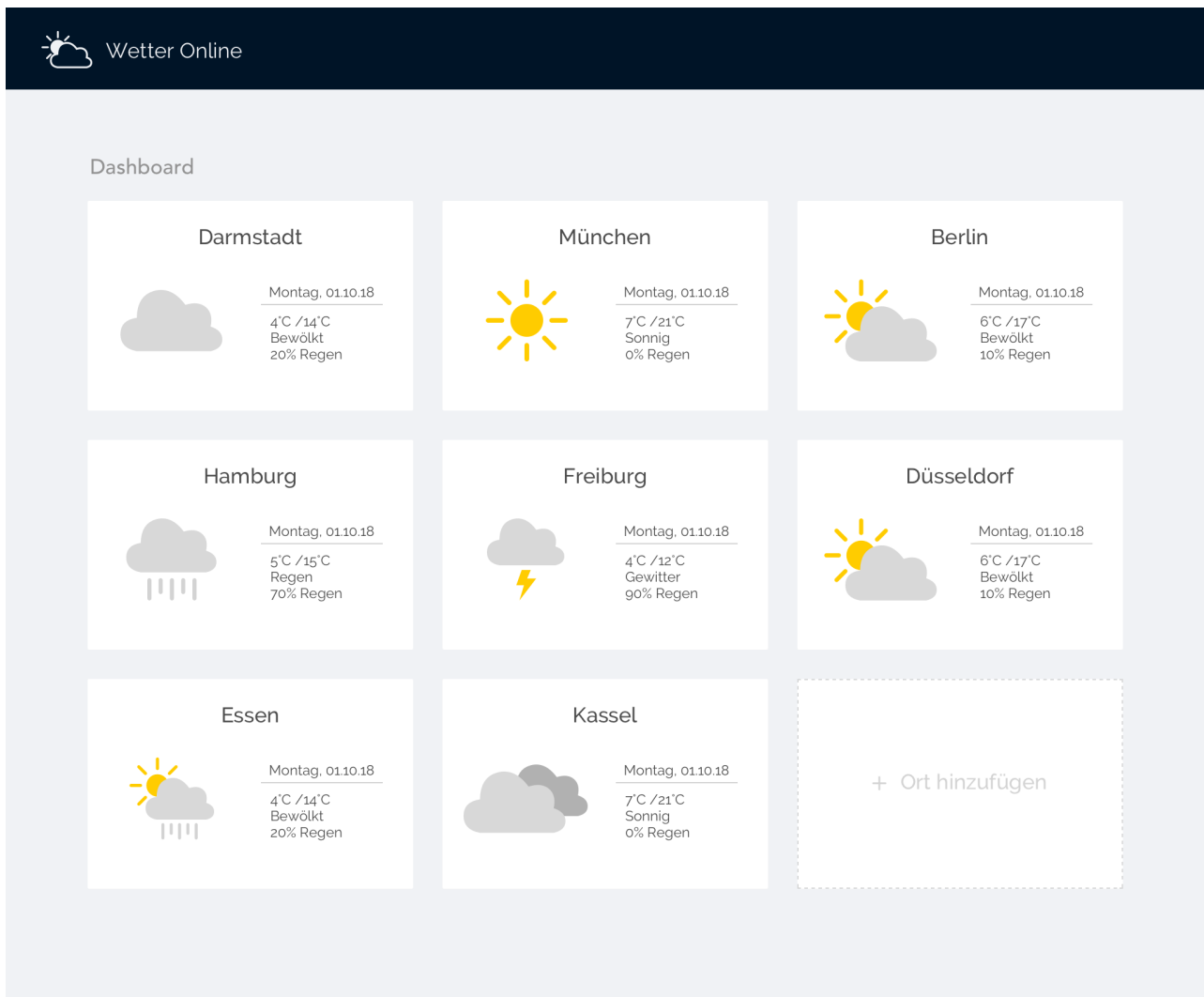


## 2 Story I

**As user I want to be able to see the weather of my favorite places on a dashboard.**

Acceptance criteria:

- There is a dashboard showing brief weather information for added locations
- The following information is shown for every location:
  - Location name
  - Temperature
  - Rain probability
  - Icon representation of the present weather



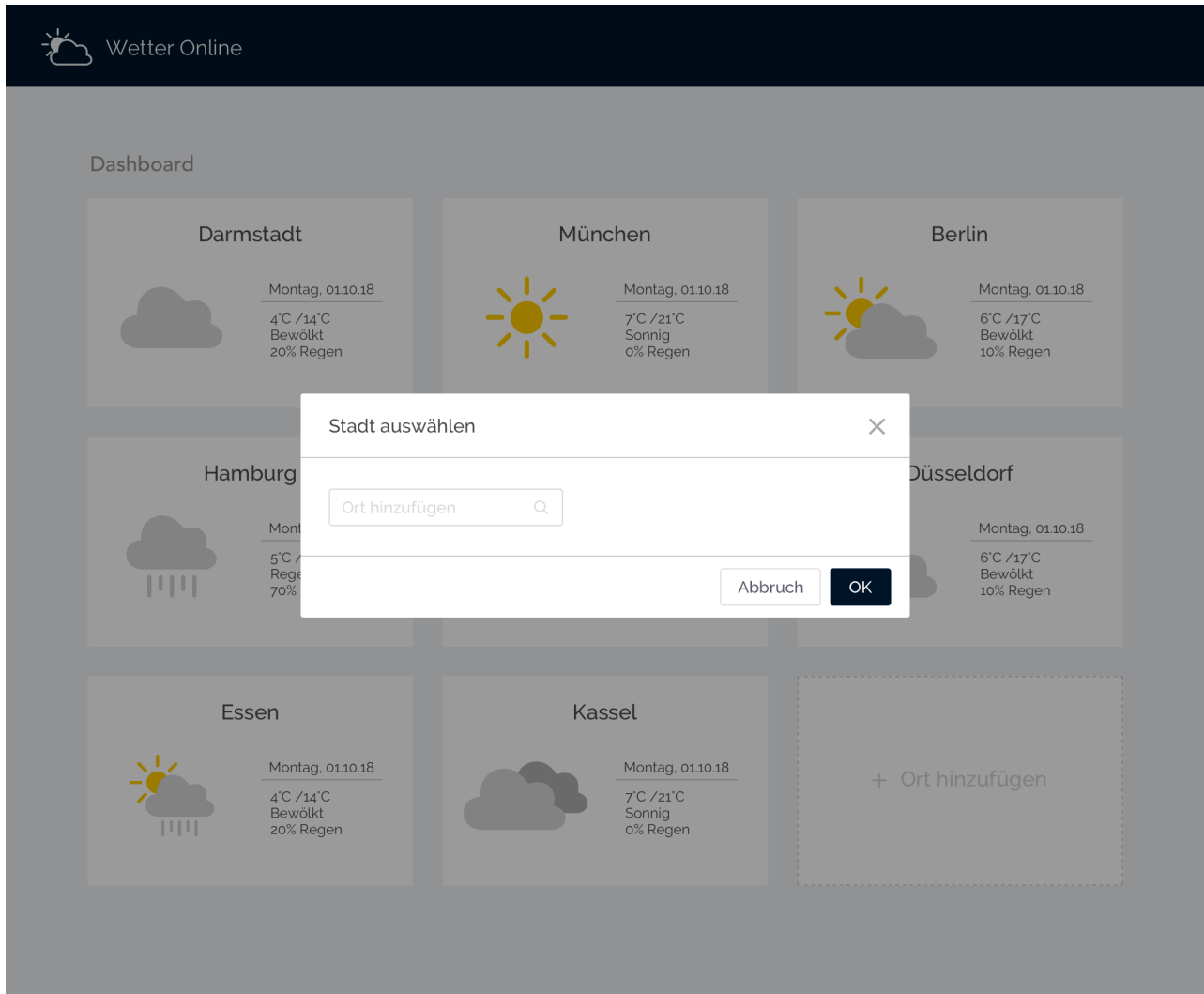


### 3 Story II

**As user I want to be able to add new locations to the dashboard.**

Acceptance criteria:

- A user can add a location with a click on "+ add location". The location is then added to the dashboard.
- Locations are persisted and will be reloaded on every page reload.





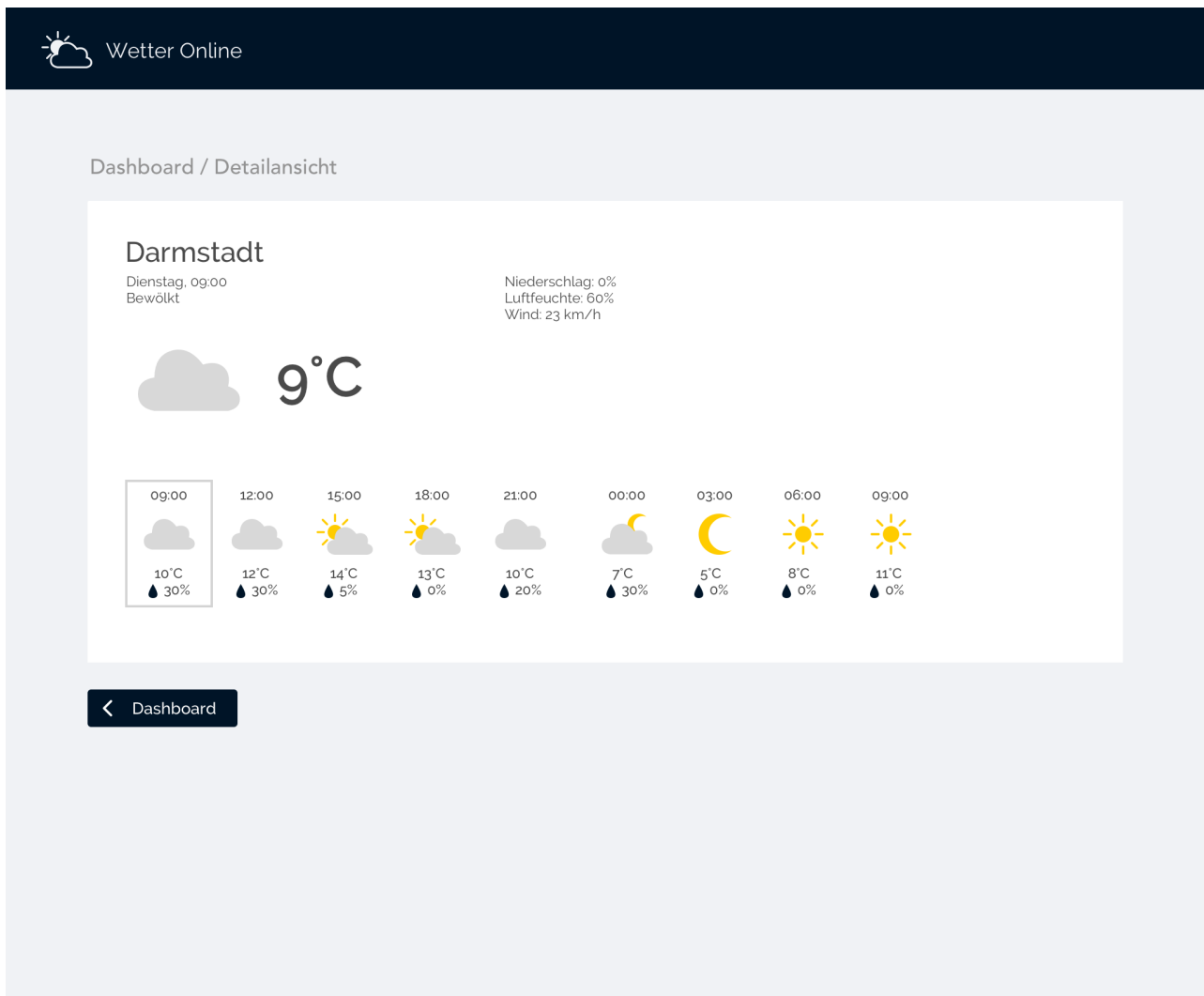


## 4 Story III

**As user I want to have a detailed view with hourly information to see the weather prognosis for the day.**

Acceptance criteria:

- Navigation to the detailed view by clicking on the location on the dashboard
- Detailed information for the day for every three hours of the day (09:00, 12:00, 15:00, etc.). Information shown:
  - Temperature
  - Humidity
  - Icon representation of the expected weather
- Navigation from the detailed view to the dashboard is possible





## 5 Story IV

**As host of the platform I want operation cost to be low.**

Acceptance criteria:

- Weather data per location is fetched from OpenWeatherMap once every 10 minutes at most.

### 5.1 Comments

- We know time is short. Please make your solution simple and don't get caught up in fancy technologies.
- Use your preferred architecture. Build a plain backend, build it serverless...
- Use your preferred database. Classic PostgreSQL, MongoDB, SQLite, ... it's up to you!
- Use your preferred API Style: Rest API or GraphQL
- Plan your project, think things through and work step by step.
- Remember what posed to be a problem. What would you do differently next time or if you had more time? Which parts of the project are you satisfied with? Which not?

### 5.2 Last words

Have a lot of fun! We are excited to see your result!

[1] <https://includde.sharepoint.com/:u:/s/Projects/Ec0lVTe6L4JCuBzYrptYchYBBEymbTlSxvYDGWbggO04Tw?e=7Lo3pr>