Agdir AS Technical Homework for a new developer

The goal of this assignment is to see how familiar are you with HTML/CSS/JS and tooling for modern web development.

Summary: this is one webapp with two pages, one form with validations and a table. You may use vanilla JS/HTML/CSS but using a framework is a bonus. For more bonuses see next page!

Realistically this assignment should not take more than one or two working days.

Once you are done with the homework, please have the code published on GitHub, Bitbucket or any other git repository.

Landing page

Have the Agdir logo displayed on the screen. You may download it here https://auth.agdir.farm/assets/logo/horizontal-color.svg (see next page for wireframe)

1. Logo is in the middle of the page (centred horizontally and vertically).
2. It is 20% of screen width but no smaller than 150px in width
3. Remove the word "BETA" from the logo.
4. On mouse hover logo has a box shadow and is slightly increased
5. When the logo is clicked, it takes to the next page with a URL `/weather-forecast`

Weather forecast page

Make a next page with a URL "weather-forecast" (see the wireframe below)

1. The same logo is placed on the top of the screen and is 50px in height. And clicking the logo takes one back to the landing page
2. Below logo there is a heading titled "Weather forecast".
3. Below the heading there are two input fields located next to each other. One is for latitude, other is for longitude.
    a. Latitude should have a validation for values >=-90 and <=90
    b. Longitude should have a validation for values >=-180 and <=180
    c. Validation error is not visible before one "visits" (focus/touch) the input field or clicks the "Check forecast" button
4. If form is valid, then on submit fetch the upcoming weather forecast from this URL `https://8l526ngysb.execute-api.eu-west-1.amazonaws.com/?lat=$$$LAT$$$&lon=$$$LON$$$` Substitute `$$$LAT$$$` with value from the latitude field and `$$$LON$$$` with value from the longitude field so it's like `?lat=60&lon=11`
5. Show "spinner/loader" when button while data is being fetched
6. Once values are fetched, iterate `properties.timeseries` property and render time, temperature and humidity values in table
    a. Time is in response as `timestamp` Output only hours and minutes without the date part. Use browser timezone
    b. Temperature is in `data.instant.details.air_temperature`. Postfix value with °C
    c. Humidity is in response as `data.instant.details.relative_humidity`. Postfix value with % sign

Bonus and awesomeness badges from our side if

1. You use Angular
2. Page is responsive and looks "good enough" on all screen widths from 300px to 3000px
3. You publish the site on GitHub pages, Netlify or any other public hosting.
4. You use browser Geolocation API to prepopulate longitude and latitude values
5. You use Material UI
6. You have a custom font
7. The table is sortable
8. You have unit tests
9. You have integration test
10. Page looks “nice” on print media

Landing page

Weather forecast page