

Webnorth 2025

# WordPress Full Stack Recruitment Task (frontend focus)

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### Task description

Develop a WordPress plugin that enables the admin to create a "weather station" custom post type which is projected onto openstreetmap. Fetch weather data from Openweathermap when the station (pin) is active.

We expect you to ensure the code quality and file structure are maintainable for the future and other developers.

- **Use a class-based approach for both front-end and back-end.**
- You are free to use **Advanced Custom Fields (ACF)**. If ACF Pro is needed, it can be found in the link beneath. Note that this version of ACF Pro is only allowed for use on this specific assignment.

The suggested time for the recruitment task (mandatory tasks) is 3–6 hours, as this is just a prototype and modern tools are available.

Link to Google Drive folder with the needed assets for the plugin assignment:

📁 Plugin Front-end

### Estimation Task

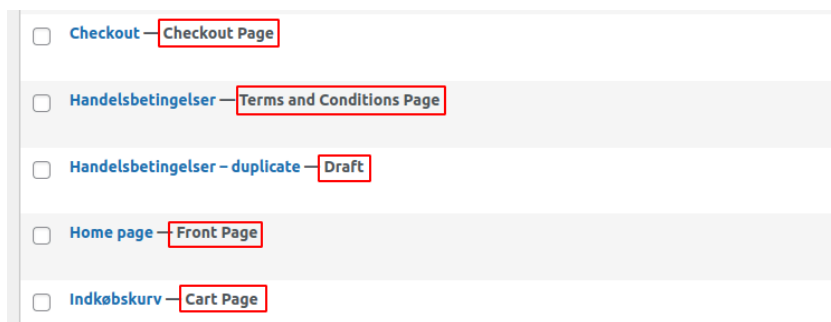
In addition to this task, please estimate the production-ready implementation of the assets in the 📁 Estimation folder. The estimation template is provided within this folder.

If you have any questions or need additional guidance, please reach out.

Good luck! 😊

### Back-end requirements

1. On plugin activation, automatically create a new page with the slug /map.
2. Add the "Map Page" label to the programmatically created page.



3. Register a custom post type (weather\_station). The post page should not be visible to the public. Post should have the following meta fields:
  - o title: Weather station title
  - o lat: Location latitude
  - o lng: Location longitude.
  - o weather\_data: Weather data stored for 24 hours.

### Front-end requirements

Use this Figma as a reference to create front-end for the plugin:

<https://www.figma.com/design/jmG7Je5rr2PvUVA4hFJvEu/Recruitment-Task---Front?m=auto&t=Qo36MXyeVZvJI95D-1>

A local .fig copy is provided:  Plugin Front-end

Please avoid using frameworks such as Vue/jQuery/Tailwind. GSAP Is allowed.

The project should utilize .scss, any bundler is fine (at Webnorth we use Vite).

1. Map Page
  - o Use the /map page to display the app header and all weather stations.
  - o The header and map sections should each take 100% height of the user screen.
  - o As the user scrolls down:
    - i. The gradient changes opacity from 1 (fully visible) to 0 (fully transparent)
    - ii. The app sidebar moves horizontally, transitioning from translateX -100% to 0%
    - iii. The scroll action should be fluid (animation should play as-we-scroll) and be reversible
      1. The gradient changes opacity from 0 to 1

2. The app sidebar translates from translateX 0% to -100%

2. Map interaction:

- On the map – all weather stations added to the WP dashboard should be displayed as pins (closed state if there is no /map#{id} in the url)
- When the user clicks anywhere on the map – it shall activate the closest weather station
- Center the map on the lat/lng of the station
- Update the URL so it reflects the current station, eg. /map#{id}
  - i. When the page is reloaded or /map#{id} is invoked manually – the correct location should be opened.

3. Location Clicked

- When the station is activated – use AJAX to get weather data from openweathermap (or cache) and display it in the sidebar.
  - i. implement pleasant data loading animation
  - ii. cache the response for 24 hours to avoid unnecessary requests to the API
- Users can toggle between Celsius and Fahrenheit.

4. Saved locations

- Save bookmarked locations on the user's machine
  - i. Display "My locations" page if the state is saved on the user's machine..
- Display weather data under the active location

Front-end bonus tasks (optional)

1. Animate hover states
2. Implement sidebar transitions/fade-in fade-out interactions as we navigate
3. Implement custom cursor

Handover

Submit your task to [sr@webnorth.com](mailto:sr@webnorth.com), [ks@webnorth.com](mailto:ks@webnorth.com), and [sz@webnorth.com](mailto:sz@webnorth.com) via a shared Google Drive link.

Please include:

- Plugin files in a zip format
- Estimation spreadsheet
- Brief setup guide explaining how to:
  - Install and activate the plugin.

- Configure any necessary data to test the functionality.