

Full Stack Engineer Test

The goals of the at home test are to (1) test your technical abilities, (2) understand your thought processes, and (3) check your sense of user experience design.

Today, on the Avonet platform, the user has the ability to filter out observations given a specified slope aspect (north...). The current UI is functional, but far from elegant or intuitive. It needs to be redesigned and implemented. The main functionality can be described as:

As a user, I want to only see observations between a North West and North East aspect.

The current UI on Avonet looks like:



This test has two parts:

- 1) **Design a better user experience.** Propose 2 to 3 user experience designs you see replacing the above current aspect selection. The map, observations are not part of the test, just the tool that allows aspect selection. The proposal can range from low fidelity (hand drawing) to higher fidelity. For each approach, please explain the approach, pros and cons.
- 2) **Implement your design.** Select the design you think fits best for the proposed use case and implement it using: react and flux or angular. The resulting web page should be self contained and not connect to any backend. The aspect selection tool should take 2 aspects as user input and display on the web page the 2 selected aspects (output).

Please consider the test as a real use case that you would deploy to a production ready environment (design consideration, code quality, etc.). The final result should be self contained and ready to run on a local mac laptop with provided instructions. Designs and implementation should be in a GitHub repository, accessible by us so we can run it after pulling it out of the repository.