

# Build Process

I started the project by reading the technical and project requirements from <https://github.com/bbc/vj-code-tests/tree/master/airquality>. This was followed by exploring the files given, mainly [airquality/src/data/english.json](#) to get an understanding of how the data is structured and how I would present it.

I then made a rough sketch of the layout in a notebook. I wanted to showcase my skills as a hybrid engineer / designer, so I jumped into Adobe Experience Design to make a high fidelity mockup that would guide my user interface implementation.

Files for the mockup can be found in `./process`

Below is a preview of the mockup.



Once I had the design ready. I created a new angular app in with angular-cli and started building the component. I split the functionality into three parts:

1. A data service that handles where the data is coming from
2. A main app component that renders the story and a form for users to select cities
3. A chart component that shows the data in cigarettes and particulate matter

Finally I wrote some tests to ensure that future modifications don't break the app.