

# Code Challenge Instructions

You've been given a data set as a json file with 100 records in it, the challenge is to showcase some interesting software engineering with the data set.

## The Data Set

The data set is all about [compounds](#) and their [assay results](#) which represent a much simplified view of the data we deal with in the drug discovery domain. Don't worry if you don't have a clue about drug discovery, it's all just pictures, strings and numbers the same as every other business. Each compound can have one or more assay result so it's just a standard master detail scenario.

There are two files, `compounds.json` is the data file and `schema.json` describes the data (fields, types and so on).

There is also a subfolder called `images` which contains 100 png images, one for each record in the data set.

## The Rules

- Don't incur any costs, free tools are available.
- Use whatever tech stack you prefer that will show off your skills to the max.
- You have up to 1 week to complete the challenge, we appreciate you are busy with life and work so if you need longer let us know early on or consider doing something simple.

## The Deliverables

- Please check your solution into github (or similar) and share the repository with [rcox@exscientia.co.uk](mailto:rcox@exscientia.co.uk).
- The repository must contain a README file (.md is good) that describes the very simple and easy to follow steps needed to use / start up your solution.
- Include in your repo any build / deploy scripts, we are interested in your whole solution.

## Stuck?

If you are a backend sort of person why not create a script that loads the `compounds.json` data into a database then expose the data via an API.

If you are a front end sort of a person why not render `compounds.json` in a master detail web app, there are enough fields in the file to create a simple chart too.