

# Technical Test

## Instructions

The purpose of this assignment is to produce a small working application for review. The details are given in section 2.

The aim is to assess your problem solving approach, your ability to turn your solution into working code and the way in which you structure your code.

You are requested to:

- Produce working code together with appropriate tests to solve the problem
- State clearly any assumptions made (either in code comments or as a separate README file)

If you have any issues with the programming assignment or need clarification on any aspect of the assignment, please seek help from your test coordinator straight away.

The test does not include a set time limit, but the time it takes you to implement your solution may be taken into account during assessment. Please return your completed submission in the agreed timeframe discussed with your test coordinator

Once complete, you should create an archive file for your code (zip or tar.gz) and email it back to your test coordinator. Please do not upload the code to your public github account.

Many thanks. We look forward to receiving your submission. On receipt of your completed test, our tech team will review the submission and your test coordinator will be in touch shortly to discuss the next steps of your application

## 2. Coding Assignment

### Food Hygiene Ratings

The Food Standards Agency rates restaurants and other food outlets with a hygiene rating from 1-5 stars (or an “Exempt” rating). In Scotland, they are rated as “Pass” or “Needs Improvement”.

You must create a simple web application using the API and data sources at <http://api.ratings.food.gov.uk/help> that fulfils the user story below.

### User Story

The following user story needs to be implemented.

As a user I want to see how food hygiene ratings are distributed by percentage across a selected Local Authority so that I can understand the profile of establishments in that authority.

### Acceptance Criteria

Given a local authority with establishments rated as follows:

- Establishment A: 5

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- Establishment B: 5
- Establishment C: 1
- Establishment D: Exempt

When I select that local authority then I should see a tabular breakdown as follows:

Rating	Percentage
5-star	50%
4-star	0%
3-star	0%
2-star	0%
1-star	25%
Exempt	25%

## Further implementation notes

Your application should provide a drop-down list of Local Authorities for the user to select from and then display a table of data as per the acceptance criteria above for that authority.

The FSA's API is a simple RESTful API that returns JSON and you may use any frameworks you like to help support accessing this API. Note that contrary to the API documentation in recent versions the `pageSize` and `pageNumber` parameter is not optional and must be supplied.

The code and design should meet the requirements, and should consider future extension or maintenance.

The code should be well-structured, commented, have error handling and include a suitable selection of tests.