## Requirements

Please build a web service to calculate the fuel cost of a journey.

1. We believe a good solution can be created in around 4 hours, but feel free to spend as little or as much time as you like. You **do not** have to complete the entire exercise.
2. Use Java to develop this application.
3. Use the [UK government weekly fuel prices](https://www.gov.uk/government/statistical-data-sets/oil-and-petroleum-products-weekly-statistics) to complete this test. You do not need a mechanism to keep the prices up to date.
4. For a given date, fuel type, MPG, and mileage, the web service should return:
   1. The fuel cost of the journey;
   2. The duty paid on that journey; and
   3. How much cheaper/more expensive the journey would be today
5. Give some thought to Unit and integration testing as well as application structure.
6. Feel free to use a starter kit to kick start your web service implementation.
7. Please ensure that there are **no globally installed dependencies required** to build / run your app. If you have to have them please explain why. This avoids environment issues when trying to build your solution.
8. Provide a README.md file that:

* Documents how to run / build / test your creation.
* Documents anything you might implement with more time (features, fixes, technical debt, corrections etc.)
* Discusses important decisions you made, if any

1. **Submit** your code into a **public git repository** of your choice (Github / Bitbucket etc.)
2. **Host** your code on a **public web server** of your choice.

## What we are looking for

This exercise is to examine your technical knowledge, reasoning and engineering principles. There are no tricks or hidden agendas. We are looking for a demonstration of your experience and skill using current software development technologies and methodologies. Please make sure your code is clear and demonstrates good practices. Your solution will form the basis for discussion in subsequent interviews.

## Checklist

Please **ensure** you have submitted the following:

1. Working web service application **as per the requirements above**
2. Clear instructions of where the solution is hosted
3. A README.md explaining:

* How to build / run / test project
* What could be done with more time

1. Project builds / runs / tests as per instructions

Good luck and thank you for your time - we look forward to seeing your creation!