# Introduction

Please complete this test using one of the following:

* Visual Studio 2013
* Visual Studio 2015
* Visual Studio 2017

If you do not have Visual Studio already, the community edition of Visual Studio 2017 can be downloaded (free of charge) [here](https://www.visualstudio.com/downloads/), older versions [here](https://www.visualstudio.com/vs/older-downloads/).

* We’re not looking for perfection, but are interested in your technical approach to the problem.
* You are welcome to provide supporting notes to explain your approach, either as a separate document (Word or Text) or by annotating your code with comments.
* You are welcome to use any third-party libraries, but please ensure all references/Nuget packages are included in the project.
* Please use C# for server-side code.
* Please put your finished solution into a zip file (without a password).
* Please make a note of the time spent on this test, and submit this alongside your finished project.

Thank you for devoting the time to undertake this test and we wish you the best of luck.

# Task

You are provided with an XML file of countries (Countries.xml). Each country has a shipping classification code (A, B or C). Please save this to the root of your project. This data will be used to create an MVC “Shipping Calculator”.

Using MVC, please create a form which collects (and validates) the following information:

|  |  |  |
| --- | --- | --- |
| Field | Type | Validation |
| Email address | Text | Mandatory; check valid format |
| Country | Dropdown | Mandatory; populated using Countries.xml |
| Order amount | Monetary value | Mandatory; maximum £2000 |
| Shipping discount | Integer | Not mandatory |

When the form is successfully submitted, the site should calculate the shipping costs for the order and display a breakdown of costs (order amount, shipping amount, total) to the user.

This calculator should follow the following logic:

* If the order value is over £50 and shipping is to the UK, shipping is free.
* If the order value is over £100 and shipping is not to the UK, shipping is free.
* If the order does not match the above criteria, shipping should be based on the classification in the XML, and if given, a discount should be applied. The discount is the percentage that should be removed from the shipping cost (not the order total).

Shipping classification codes should apply as follows:

* Class A - UK and Ireland - £5
* Class B - Europe - £10
* Class C - Worldwide - £15

We would like to see use of dependency injection and unit testing in your solution.