# Honest Bob’s Website

### Intro

As part of the interview process we require that all developers take part in a scenario based development activity. This activity aims to give us a little bit of insight into your thought processes and how you approach a problem as well as giving us an indication of how comfortable you are with the basic tools you will be using on a day-to-day basis such as C#, .NET and SQL.

The test is a fairly contrived scenario and is not meant to exactly represent the type of work you may be involved in at Ridgeway. We also do not intend for you to necessarily be able to complete the entire activity in the time allotted. If you do, that's great, but if not then do not worry.

As a guide we would expect candidates to spend around 4-6 hours on the planning and implementing of the solution. If you wish to spend longer in order to provide a completed solution that is fine.

You will be given a solution file containing an almost blank website and a blank database with which to work with. If there is anything in the solution file or website that you wish to delete or change then please feel free. The rest will be left up to you.

### Scenario

Honest Bob’s is an ecommerce store that sells a small range of goods at honest prices. The company would like to redevelop its existing ecommerce solution to enable it to expand its catalogue and sell to a broader range of consumers.

Honest Bob’s currently specialises in selling books and movies, but would like to start selling music in the short term and then expand to selling video games and also toys in the medium to long term.

Each item sold by Honest Bob’s needs to have basic information about the product such as:

* A unique identifier
* A name
* A description
* A price

Depending on the type of product in question various additional fields will also be required in order to provide as much information about the product as possible to the consumer. For example, a book has:

* An author
* An ISBN number
* A page count

It is known that these additional fields are specific to each type of product and that Honest Bob’s only intend to sell to customers in Great Britain for the foreseeable future. Therefore they only require text to be in English and currency to be in GBP.

The new solution needs to make provisions for adding and removing additional fields, but any work required to do so will be a developer task and Honest Bob’s will communicate with us when they need any such work doing.

Your task is to create a new Honest Bob’s solution that will show a POC approach to the development team of how to meet these requirements. Your solution should include:

* A set of bespoke classes that model the domain as described above
* Implementation of the appropriate DAL and BLL layers
* A SQL database that will be used as the repository for the product data
  + An example subset of product data can be found the Excel spread sheet on the Desktop.
* A simple website that has:
  + A page listing the types of products Honest Bob’s sells, you can then click through to;
  + A page that lists the products of a specific type and shows all their details
  + A mechanism that allows users to add products to a basket from the product listing page
  + A page displaying what is currently in the users basket
* Notes detailing your implementation and any requirements in order to run the solution, e.g. the version of SQL used (please try to use only 2008 or 2012). Ideally your database will be attached to the Visual Studio solution but if this can’t be achieved ensure you include a backup of the database.
* Please ensure that you complete the task in C# using the ASP.NET Web Forms development model.