# ASP.NET MVC Assessment Exercise

### Part I. Programming and Document

**Scenario**

Using ASP.NET MVC 5+, create a “Contact Us” form that has the following fields:

* First Name
* Last Name
* Email Address
* Telephone #
* Best Time to Call

Consider the following additional requirements:

* Do **NOT** use scaffolding or otherwise auto generate the user interface.
* Use a completely custom style sheet to style your page and the form. It should be attractive with custom fonts, colors, and other stylistic updates.
* All fields required by the database are required by the form.
* Data type validation should be implemented.
* The form should accept only correctly formatted Email Addresses.
* The Best Time to Call should accept only times between 9AM and 6PM in 15 minute increments.
* The user should not be able to submit the form unless they have successfully solved a CAPTCHA.

When the user submits the form, insert the data into a SQL Database using Entity Framework 6+. Use the schema we provided below.

**Other**

Write a descriptive business-like document which outlines your approach. Be sure to explain any part of the task which was a challenge to you and which parts were easy for you as well. Include web links to any resources or references you used to complete the project. Please be thorough with this document, as if you were presenting it to a client (or a prospective employer).

**Delivery**

*Part 1. Source and Document*

Zip up the source and send them in an email to us for review. The source code should compile in our environment (we understand that we will need to retrieve any NuGet files). Don’t forget to include the document as an attachment to the email.

### Part 2. Video

To see it working we want you to make a very short video of the form in use. Start the video by filling in the fields with invalid values and formats and data types. Fix them and submit the form successfully. Then switch to the database, run a query, and show us the values in the table. Compress the video so it is small enough to fit in an email by itself. Try to keep the video to 20Mb or less. Send that to us as well. You might have to be resourceful to figure this part out but that is what we are looking for.

**DB Script**

CREATE TABLE [dbo].[Contact]

(

    [ContactID] UNIQUEIDENTIFIER NOT NULL PRIMARY KEY,

    [FirstName] VARCHAR(40) NOT NULL,

    [LastName] VARCHAR(40) NOT NULL,

    [Telephone] VARCHAR(16) NULL,

    [EmailAddress] VARCHAR(80) NOT NULL,

    [BestTimeToCall] DATETIME NULL

)

Go

### Part III. Written Question Scenario

Append to the document you wrote in Part I your answer to the following programming challenge.

Below is a mock screen for part of actual HTML page in an ASP.NET MVC project.

Paint, Carpet/Floors, and Blinds each have mutually exclusive selection lists which toggle when clicked. Only one element in each list can be selected at one time.

On another part of the page, a submit button would be clicked which would submit this form.

Explain (don’t actually create this, just explain how) how you would create such a selection list if the only tools you could use are JQuery, JavaScript, CSS, and HTML.

What techniques would you use? How would you style the elements? How would you handle the ‘click’ action?

