Detroit Trading MVC Programming Test

Using the provided Visual Studio Solution you are tasked with creating a web application.

Your goal is to create a web page that contains two dropdowns and a button within an AJAX form. This form should be created within the \_Form.cshtml partial view with the purpose of allowing the user to select a vehicle make (aka vehicle OEM) and a vehicle model. This form should validate that both a make and model have been selected and if they have not it should notify the user of the validation error. When the form is submitted it should POST the resulting selections and echo them back via the \_ThankYou.cshtml partial view.

From view code, access vehicle information by way of the VehicleController.

The VehicleController class should obtain its data from the VehicleQuote.Api project's MakesModels class. The MakesModels class should use the:

1. App\_Data/modelsbymakes.xml
2. App\_Data/makes.xml

...files for source data.

Upon inspecting these files you’ll note that makes.xml contains vehicle make definitions with an ID and a Description. The modelsbymakes.xml file contains models for the makes.

To simulate bad data:

1. Do not include makes with an ID of "EEE" or where the id property is missing
2. Do not include model nodes that may an id of "INVALID", or be missing altogether.

Note that when the user changes their make selection the model drop down should refresh its contents. The population of the dropdowns as well as the event logic should be handled client side and should not involve any type of form submission.

If you have any questions or need clarification feel free to contact us.