**.NET Web Developer Technical Test**

1. Create a RESTFul service using ASP.NET WebAPI that connects to a database and exposes 4 basic operations:

a. Retrieve all records from a database table.

b. Retrieve a single record from the same table, using its identifier.

c. Insert a record to the table.

d. Update the information of a record, using its identifier.

The service must return and take data using JSON format. You can create your own database and table for this exercise, or use the public Azure database information provided below.

Extra points 1

Add an authentication layer to the created Web service. Points will be given according to the complexity of this layer and the use of good practices.

Extra points 2

Perform validations to the data passed to the service.

2. Create a Web application using ASP.NET MVC, that provides a user interface to consume the created API methods. Your application must not access the database directly, but it should make use of models that map against the data of the service. It should display at least the following interfaces:

a. List all records.

b. View the details of a single record

c. Provide a form to insert a new record.

d. Provide a form to update an existing record.

Bring your application to life using good practices of HTML5, CSS3 & JS.

Extra points 1

Authenticate your application to your Web service if you created an authentication layer for it.

Extra points 2

Minify the JS and CSS for the application using Grunt or Gulp.

3. Provide the components of your solution to the test either via ZIP or in a public repository (e.g. GitHub).

Azure Database Information

|  |  |
| --- | --- |
| Server | tcp:prodigious.database.windows.net |
| Login | candidate |
| Password | kFtSmCC&cwA#eN9# |
| Database | prodigious |
| Table to Use (Suggested) | SalesLT.Product |