

## TAINA Technical Test

Write a simple web application using C#, MVC in Visual Studio that allows a user to view a list of the following 'Person' object with the ability to edit details of an individual person and to add new people. Do not use Entity Framework! Populate a database of your choice with records using the example script provided.

The data for a person is stored in this table:

	Column Name	Data Type	Allow Nulls
🔑	PersonId	bigint	<input type="checkbox"/>
	Firstname	nvarchar(30)	<input type="checkbox"/>
	Surname	nvarchar(40)	<input type="checkbox"/>
	Gender	nvarchar(6)	<input type="checkbox"/>
	EmailAddress	nvarchar(200)	<input type="checkbox"/>
▶	PhoneNumber	nvarchar(30)	<input checked="" type="checkbox"/>

The system, whilst simple, is anticipated to be a high performance system handling millions of people in the database and accepting millions of hits per day to the website. As such we are looking at:

- How you structure your solution, i.e. use of n-tier architecture
- The level of error checking in your code – defensive programming!!
- How you cater for standard production issues (e.g. database not available, etc.)
- How you would spot and debug any production issues once in live
- How robust your code is
- Your strategies for handling the high volumes of records and high volumes of hits to the website, e.g. use of caching
- The attention to detail on the user interface

Sketch out how you would scale your solution up across a server farm. Cloud solutions are acceptable.