Senior Developer Practical Test

# Patient Demographics

1. Create a database with whatever tables, stored procedures, etc you think you need to complete the test.
2. Create two web API endpoints.

* One endpoint should retrieve the data from the database table.
* One endpoint should save the data to the database table.

1. Create a simple web application that will:
   1. Save the data

* It should save the data as XML.
* It should use the web API to save the data.
* It should have the ability to save the following fields:
  + Forenames.
  + Surname.
  + Date of Birth.
  + Gender.
  + Telephone numbers
* It should have the ability to add multiple phone numbers:
  + Home number
  + Work number
  + Mobile number.
* The Telephone number section should be a repeating section in the XML.
* The following fields should be mandatory:
  + Forenames.
  + Surname.
  + Gender.
* The following fields should have validation:
  + Forenames (minimum length: 3 characters, maximum length: 50 characters).
  + Surname (minimum length: 2 characters, maximum length: 50 characters).
  + Date of Birth (correct date format).
  1. View the data
* It should use the web API to retrieve the data.
* It should deserialize the XML data type into an object.
* It should list the following fields from the returned records:
  + Forenames.
  + Surname.
  + Date of Birth.
  + Gender.

1. If time permits add any practical enhancements that you can think of.