

.NET DEVELOPER

PEOPLE DIRECTORY ASSESSMENT

ASSESSMENT OVERVIEW

Create a 'People Directory' application that has 2 parts to it:

- 1. Client Section
- 2. Admin Section

1.1. CLIENT SECTION

1.1.1. User Stories

- 1. As a user, I'd like to be able to perform a search for a person that may exist within the directory, by entering a person's name into a search input field and viewing possible matches.
- 2. As a user, I'd like to be able to view a person's Contact details and Personal Information once I select a returned search result.
- 3. As a user, I'd like to be able to filter my search results with a:
 - a. Country filter
 - b. City filter
 - c. Anything else is up to you... (being a test scenario feel free to impress!)

1.1.2. Requirements

- Present the Frontend UI using any HTML5 free template available on Google or your own HTML/CSS. Or use an MVC Template with any SPA JavaScript Frontend (i.e. Angular; React etc).
- 2. The UI should contain a "predictive / type ahead" method of returning possible matches, based on First Name or Surname only.
- 3. Make use of a REST service to complete the "predictive / type ahead" text lookup.
- 4. Once a match is found (i.e. for First name = Mark), all the results for "Mark" should output to a table/grid (catering for the Name or Surname) and shows only a summary of all the returned matches.
- 5. The search results / matches, should be clickable so that the user can then view the persons full Personal Information:

- a. Name
- b. Surname
- c. Address (country and city)
- d. Profile picture
- e. Mobile number
- f. Gender
- g. Email address
- h. Anything else you wish to include...

1.2. ADMIN SECTION

1.2.1. User Stories

- 1. As an Admin User, I'd like to be able to login and manage the people directory database to edit, add new and update records.
- 2. As an Admin User, I'd like to be informed via email whenever a record is edited or created confirming the changes made.

1.2.2. Requirements

- 1. Provide a login mechanism for the Admin section
- 2. Allow the Admin to manage the people database CRUD
- When creating a new record and the Admin populates the City and Country fields, allow the Admin to choose a Country from a dropdown list and prepopulate the city dropdown, based on the Country selected.
- 4. Once a record is edited, send a confirmation email that:
 - Says what was edited / changed
 - Says what the new values are
 - Sends an email to: <u>mark@bluegrassdigital.com</u>

2. TECHNICAL REQUIREMENTS

2.1. Patterns

- 1. MVC
- 2. Repository
- 3. Dependency Injection
- 4. SOLID principles

2.2. Technologies

- 1. C#
- 2. .Net 4.5 MVC or .NET 3.1+
- 3. Entity Framework 6 or above (Use the code first approach and not the EDMX model)
- 4. .Net Web API or .NET Core (for REST call)