**Contact Management**

**Web application**

Develop an ASP.NET web application to manage contacts

Application Features

The web application should have 5 features:

1 - An index page with a list of existing contacts.

2 - A page with a form for adding new contacts.

3 - A page for showing contact details.

4 - Allow editing an existing record

5 - Allow deletion of an existing record

Considerations

A contact is an entity with 4 fields: ID, Name, Contact and email address. Name should be a string of any size greater than 5, contact should be 9 digits, and email should be a valid email.

Each row in the index page should have a link to the contact details page, a link to edit the contact, and a button to delete the contact. The delete should perform a soft delete of the record, using Laravel features.

The contact details page should show all the fields of the contact plus the edit link and the delete button.

Contact and email address should be unique, two contacts cannot have the same.

Any needed database structure information or data should be added using migrations and / or seeds.

Always use native features when possible, including routes, controllers, form validation rules, soft deletes and other features.

Additional Requirements

The following requirements should be implemented if within test execution time:

* Allow viewing the list of contacts by anyone, but the other features should only be accessed by an authenticated user. This can be a static user previously created.
* Implement tests for checking form validation errors when adding or editing contacts.

Development steps

1 - Develop project locally

2 - Create and Initialize a repository and push the baseline version of the project to it

3 - Make several pushes with code changes according to best practices

4 - Deliver project including all of the necessary instructions to test the application

Notes

The exercise can be implemented using either ASP.NET core.

The views should be implemented using Razor Pages.

The exercise should be implemented using migrations and be installable by cloning the code and running a specified set of commands. The database management system should be **MariaDB**, and the version of MariaDB should be 10.6.

The repository should include the appsettings.json in the following format (special attention to the **connection string**):

|  |
| --- |
| *{*  *"Logging": {*  *"LogLevel": {*  *"Default": "Information",*  *"Microsoft": "Warning",*  *"Microsoft.Hosting.Lifetime": "Information"*  *}*  *},*  *"AllowedHosts": "\*",*  *"ConnectionString": {*  *"MariaDB": "Server=10.25.3.19;DataBase=db;Uid=root;Pwd=root;"*  *}*  *}* |