

MyRoster

// Update your previously created RosterController to use a SQL Server database

- ☐ Add a SQL Server Project named **Experiment.Database**
 - ☐ Add the following folders to the database project: **Publish, Tables, Data**
 - ☐ Add a table named **RosterItems** to the **Tables** folder
 - ☐ Columns: **RosterItemId, FirstName, LastName, Email**
 - ☐ Primary Key: **RosterItemId**
 - ☐ Publish the database to your local machine and save the configuration under the **Publish** folder, name the publish file **localhost.publish.xml**
 - ☐ Add a csv containing your sample data to the Data folder
- ☐ Install the latest version **EntityFramework** nuget package on the **Experiments** project
- ☐ Add a **DbContext** subclass named **ExperimentsDatabase** to the **Models** folder of the **Experiments** project
 - ☐ Subclass of DbContext
 - ☐ Constructor
 - ☐ RosterItems Property (type DbSet<RosterItem>)
- ☐ Update the RosterItem model class to reflect the database schema
- ☐ Disable migrations by adding the following line to **Global.asax**
Database.SetInitializer<ExperimentDatabase>(null);
- ☐ Update the **RosterController** to save and load data from **ExperimentsDatabase**
 - ☐ Remove the **_roster** instance variable
 - ☐ Add the **_db** instance variable (type ExperimentsDatabase)
 - ☐ Update the **Index** method to load the roster from the database
 - ☐ Update the **Add** method to save the roster item to the database

Portfolio

// Improve your previously created portfolio under labs/UNIT_01_LAB/Portfolio

Improve the portfolio that you created for Lab 01A and Lab 01B. For this assignment you will add a gallery of past projects to your portfolio. And save those projects to the database.

- ☐ Add a SQL Server Project named **Portfolio.Database**
 - ☐ Add the following folders to the database project: **Publish, Tables, Data, Scripts**
 - ☐ Add a table named **Projects** to the **Tables** folder
 - ☐ Columns: **ProjectId, Name, Description**
 - ☐ Primary Key: **ProjectId**
 - ☐ Add a table named **ProjectPhotos** to the **Tables** folder
 - ☐ Columns: **ProjectPhotoId, ProjectId, Order (type INT), FileName**
 - ☐ Primary Key: **ProjectPhotoId**
 - ☐ Foreign Key: **ProjectId**
 - ☐ Add a table named **ProjectTags** to the **Tables** folder
 - ☐ Columns: **ProjectTagId, ProjectId, Name**
 - ☐ Primary Key: **ProjectTagId**
 - ☐ Foreign Key: **ProjectId**
 - ☐ Publish the database to your local machine and save the configuration under the **Publish** folder, name the publish file **localhost.publish.xml**
 - ☐ Use a SQL script to add data for three of your past projects to the database, save that script under the **Scripts** folder
- ☐ Create a class named **ProjectViewModel** under the **Models** folder with the following properties:
 - ☐ **Name : string**
 - ☐ **Description : string**
 - ☐ **Photos : string[]**
 - ☐ **Tags : string[]**
- ☐ Create a class named **Project** under the **Models** folder with the following properties:
 - ☐ **ProjectId : int**
 - ☐ **Name : string**
 - ☐ **Description : string**

- ☐ Create a class named **ProjectPhoto** under the **Models** folder with the following properties:
 - ☐ **ProjectPhotoid** : int
 - ☐ **ProjectId** : int
 - ☐ **Order** : int
 - ☐ **FileName** : string
- ☐ Create a class named **ProjectTag** under the **Models** folder with the following properties:
 - ☐ **ProjectPhotoid** : int
 - ☐ **ProjectId** : int
 - ☐ **Name** : string
- ☐ Install the latest version **EntityFramework** nuget package on the **Portfolio** project
- ☐ Add a **DbContext** subclass named **PortfolioDatabase** to the **Models** folder of the **Portfolio** project
 - ☐ Subclass of DbContext
 - ☐ Constructor
 - ☐ Projects Property (type DbSet<Project>)
 - ☐ ProjectPhotos Property (type DbSet<ProjectPhoto>)
 - ☐ ProjectTags Property (type DbSet<ProjectTag>)
- ☐ Disable migrations by adding the following line to **Global.asax**
Database.SetInitializer<PortfolioDatabase>(null);
- ☐ Update **HomeController** to load the project information for the database
 - ☐ Comment out your hard-coded project list
 - ☐ Add the **_db** instance variable (type PortfolioDatabase)
 - ☐ Update the **Index** method to load the project information from the database and transform it into a **List<ProjectViewModel>**
 - ☐ Pass the **List<ProjectViewModel>** to the view
- ☐ Add three **screenshots / images** per project to the **Content/images** folder
(this should be a total of 9 images)
- ☐ Add the filenames for the images to the database, if you haven't already
- ☐ Add a **Projects** section between the **Contact Me** section and the **footer** for your list of projects
- ☐ Add a link in the navbar to the **Projects** section
- ☐ Use a FontAwesome 5 icon in both the navbar and section header

- ❑ Display each of your three projects in a format similar to the one shown below

- ❑ Use Bootstrap 4 to style each project as a **card**
- ❑ Use Bootstrap 4 to style each tag as a **badge**
- ❑ Use Bootstrap 4 to put the photos into a **carousel**

- ❑ Display the list of projects responsively using the Bootstrap Grid System

- ❑ Show 3 projects per row on extra-large screens
- ❑ Show 2 projects per row on medium screens
- ❑ Show 1 project per row on mobile devices

