MIS 333K HW 3: Make your own MVC Page

You are an officer in a UT student organization. Create a webpage to help manage the members in your org. Your database will have a single table of members. The table should hold the following information:

1. MemberID – a unique identifier for each member. This can be an auto-generated number.
2. First name – the member’s first name.
3. Last name – the member’s last name.
4. Email address – the member’s email address.
5. Phone number – the member’s phone number.
6. OKToText – a Boolean value that represents whether or not the member has agreed to receive text messages from your org
7. Major – your org is limited to only McCombs majors (I know this doesn’t really work in the real world). You should store the student’s major. Limit the possible majors to Accounting, Business Honors, Finance, International Business, Management, MIS, Marketing, Supply Chain Management, and STM. (Hint: an enum will be very useful here).

All fields are required. Fields should have validation based on their respective types. For example, the email address and phone number should be in valid formats.

First, you need to set up a database server and SQL Server database on Azure. See the documents on Canvas for help with this.

Next, create a MVC Website project in Visual Studio. Create the member class described above in the Models folder.

Add references for Entity Framework and Bootstrap to your project using the NuGet package manager.

Add the connection string to your Azure database into your web.config file. (See directions on Canvas for this one, too.)

Create a DAL folder in your project and add a DbContext class.

Run the enable-migrations command in the Package Manager console window to establish the connection with the database. Then run add-migration and update-database.

Add a controller for your member class. Use the “MVC 5 Controller with views, using Entity Framework” option. This will create basic CRUD (create, read, update and delete) pages for your website. Make sure everything is working.

Publish your working website to Azure. Submit both a link to the page AND a zipped version of your website on Canvas.

Your website should be loaded with the following information. You can either add this using the migration seed method or by hand. The member ID field is not included, because it might change as you add or delete records. This is okay.

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| --- | --- | --- | --- | --- | --- |
| First Name | Last Name | Email Address | Phone Number | OK to Text | Major |
| Olivia | Pope | olivia@example.com | (512)555-1234 | Yes | MIS |
| Jake | Ballard | jake@example.com | (512)555-5555 | Yes | STM |
| Ted | Mosby | ted@example.com | (512)555-1111 | Yes | Supply Chain |
| Barney | Stinson | barney@example.com | (512)555-2222 | Yes | Marketing |
| Monica | Geller | monica@example.com | (512)555-3333 | Yes | Finance |
| Chandler | Bing | chandler@example.com | (512)555-4444 | No | Accounting |