

**SD-200 Applied MVC Concepts I**

**Assignment # 1**

*\*\*Note: This assignment is to be done individually; you are not allowed to work on this assignment with anyone. This assignment is due at March 12th at 11:30pm.*

The first assignment will assess your ability to create an MVC Application that leverages Individual User Authentication. This Assignment also requires the student to model objects using C# Classes and Class Properties.

1. **ApplicationUser** – This class will represent a user in the system. The existing ApplicationUser class that comes with the default template should be used and the following properties should be added:

- FirstName

- LastName

- FullName - This property should only have a getter and should calculate the FullName by concatenating the FirstName with the LastName separated by a space.

Explain：

IdentityModels.cs

It modified “AspNetUsers” of database table .

https://devblogs.microsoft.com/aspnet/customizing-profile-information-in-asp-net-identity-in-vs-2013-templates/

1. **Course** - This class should be created and will represent a course in the system. The following properties should be added:

- Id

- Name

- NumberOfHours

1. A many-to-many relationship should be created between ApplicationUser and Course (One User can take many courses and a Course can be taken by many users).

Seed:Configuration

1. Initialize migrations in the project and seed **ONLY** the following data to the database:

*Users:*

|  |  |  |
| --- | --- | --- |
| **FirstName** | John | Jane |
| **LastName** | Doe | Doe |
| **Email/Username** | [johndoe@test.com](mailto:johndoe@test.com) | [janedoe@test.com](mailto:janedoe@test.com) |
| **Password** | Password-1 | Password-1 |

*Courses:*

|  |  |
| --- | --- |
| **Name** | **NumberOfHours** |
| Software Developer | 330 |
| Cyber Defense | 340 |

1. Seed the following courses for each user: Jane should take Software Developer and Cyber Defense. John should take Software Developer only.
2. Make sure the update-database command doesn’t create duplicates on the database.

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| **Submission Guidelines:**  The student should create a private repository on GitHub and submit the link to the instructor via private message on Slack.  **Failure to follow any of the instructions above will result in penalties or get a grade of 0.** |