

## Coding Challenge:

Using Visual Studio 2019, SQL Server 2019, HTML, CSS, and Javascript create an ASP.NET MVC application that has the following requirements:

1. Create a registration page that will allow any user to create an account (at least user name and password). Save account information in the database. Optional: Send password via email.
2. Create a login page that will allow the user to use the newly created account. Page should validate that username and password are correct. For every incorrect entry display an error message. After the third consecutive incorrect attempt, display an error message then lock user name for 1 minute. Meaning the account cannot login for 1 minute. After the user has three more chances before it locks out again.
3. Create two tables in the database with primary keys, and one table has a foreign key referencing the other table e.g. Student Information, Student Section. Load as many sample data as possible.

Student		
PK	ID	INT
	Name	VARCHAR(100)
FK	Section ID	INT

Section		
PK	ID	INT
	Name	VARCHAR(100)
	Grade Level	INT

4. Create a main page with a collapsible sidebar, when hamburger icon is clicked.

4.1. On the side bar, place a link, when clicked will load a table of student ID, Name, Level, and Section Name

Student ID	Name	Grade Level	Section Name
1	John Doe	2	Washington

4.2. Above the table, place two dropdown to reference two different columns of the table e.g. Grade Level, and Section Name. These will be used to filter the data in the table.

4.3. After selecting values for either or both of the two dropdowns, when a button is clicked, the contents of the table will change based on the selected filters. When another button is clicked it will clear the two dropdowns and show the default data of the table.

4.4. Add a log off button to go back to the Login screen.