

C# - Coding Challenge

Q1 – Closures

In closures.js, fix the bugs in the registerHandlers function.

An alert should display anchor's zero-based index within a document.

For example: in the document below, the alert should display "2" when Google anchor is clicked since it is the third anchor element in the document and its zero-based index is 2.

```
<body>
  In my life, I used the following web search engines:<br/>
  <a href="//www.yahoo.com">Yahoo!</a><br/>
  <a href="//www.altavista.com">AltaVista</a><br/>
  <a href="//www.google.com">Google</a><br/>
</body>
```

Q2 – SQL Schema

In sqlschema.sql, the users_roles table should contain the mapping between each user and their roles.

Each user can have many roles, and each role can have many users.

Improve the provided create table statement so that:

- Only users from the users table can exist within users_roles
- Only roles from the roles table can exist within users_roles
- A user can only have a specific role once

Q3 – Website

In this task you will need to create a simple Website and Web API. You will not be marked on the presentation of your website. Please add any commands need to run the website in a [readme.md](#)

Data required for this challenge can be found in the attached sql script file. You are free to use an ORM but it is not a requirement.

	Description	Comments
1	Create a database called Demo and run the attached script to populate and create 2 tables.	Example connection string for your application (YMMV) @"Data Source=localhost\SQLEXPRESS;Initial Catalog=Demo;Integrated Security=True";
2	Create a web page that displays all jobs found in the table RX_Job <ol style="list-style-type: none">1. Information to be displayed JobID, Name, Floor, job status, and Name of the RoomType2. Rows should be highlighted based on the job status (any color is fine)3. The row should have a button the enables the user to mark the row as complete, you can only mark a job as complete if the status is either in progress or delayed. This action should update the database.	We will not be judging the style of the webpage so please don't spend any time on the presentation of the page. What we will be looking at is your C# code, your general code architecture, and how you solved the problem. Hint: simple is better

3	<p>Add an Web API endpoint that returns a summary of the jobs status per floor.</p> <p>You should return the room type, the status, and the total number of job status per room type.</p>	<p>For this question just create a API endpoint, do not create an web page.</p> <p>Hint:</p> <p>Complete 1b 18 Delayed 1b 10</p> <p>Example wireframe: Progress_By_Floor.PNG</p>
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File	Modified
Path.cs	23 Aug, 2018 by Lachlan Smith
Progress_By_Floor.PNG	23 Aug, 2018 by Lachlan Smith
sqlschema.sql	23 Aug, 2018 by Lachlan Smith
closures.js	23 Aug, 2018 by Lachlan Smith
DemoDBScriptQuery.sql	5 minutes ago by Lachlan Smith
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