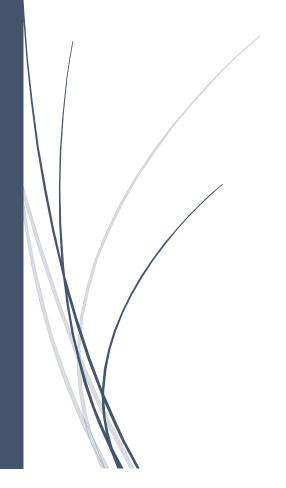
7/21/2018

Project Proposal

60-334



Jason Choquette 104337378

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Topic, scope and use cases

The topic for the project will be a job posting website. Development of the site will be built in iterations following an agile-type development model.

Iteration 1 will focus on development of supporting classes to model the site (See Appendix I). Of these classes, the main 'actors' are the Job class, the Employer class and the Candidate class.

Since I am using a Model-View-Controller (MVC) framework (See Appendix IV), the logic and backend of the site can be tested separately from the UI. Because of this, the UI and front-end will be completed in the third and final iteration.

The website will be fairly simple as outlined by the following use cases¹:

Order	Work Item Type	Title
1	User Story	Candidate/Employer/Admin Edit Profile
2	User Story	■ Employer Can View All Candidates That Applied For Positic
3	User Story	Employer Can Create/Update/Remove job(s)
4	User Story	■ Employer Can View Candidate CV/Resume
5	User Story	Employer Can View Candidate Profile/Details
6	User Story	Employer Can Search/Browse Cadidates
7	User Story	Candidate Can Receive Job Alerts by Job/Employer
8	User Story	Candidate Can View All Jobs by Employer
9	User Story	Candidate/Employer/Admin Change Password
10	User Story	Candidate/Employer Sign Up
11	User Story	Candidate/Employer/Admin Sign In
12	User Story	Candidate/Employer/Admin Sign Out
13	User Story	Candiadte Upload CV/Resume
14	User Story	Candidate Searches for Job(s) by keyword or Category
15	User Story	Candidate Browses Jobs
16	User Story	■ Candidate Saves Job Search
17	User Story	Candidate Adds Job To Favourites
18	User Story	Candidate Browses all Jobs Viewed/Applied to
19	User Story	Candidate Can View Job Details
20	User Story	Candidate Can View Employer Details
21	User Story	Candidate Can Review Employer(s)

¹ Microsoft Team Services. Code Repository and Project Management tool integration with Microsoft Visual Studio

User Levels (Privileges)

ASP.NET CORE comes with built-in user account management and user roles (privileges). This can be achieved all the way down to page level through annotations on a Controller and its corresponding method/views. For example, the following snippet of code shows the 'authorize' annotation on the Account Controller. This is a class level attribute that ensures any user accessing this controller has authorization to do so. Note also that methods are called actions.

```
[Authorize]
[Route("[controller]/[action]")]
public class AccountController : Controller
```

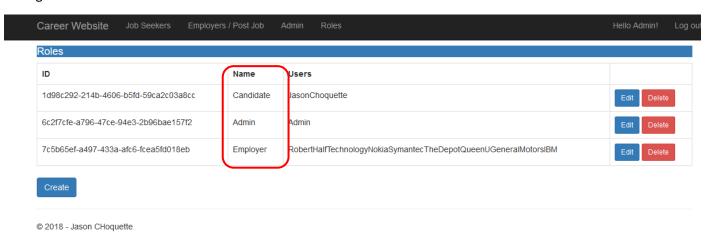
Inside the Controller class we have the following method/action for a user to login. Note that it is annotated with 'HttpGet' and 'AllowAnonymous' attributes. These attributes allow "Get" form actions and non-authorized users to have access to the action.

```
[HttpGet]
[AllowAnonymous]
public async Task<IActionResult> Login(string returnUrl = null)
```

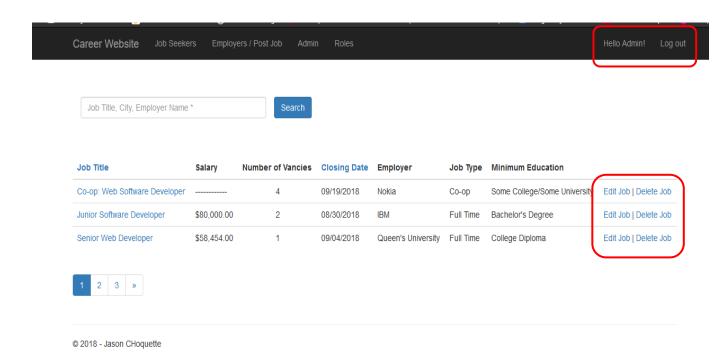
Having these annotations makes it very easy to control user actions and assign different roles to users.

ASP.NET Core Identity is a membership system which allows you to add login functionality to your application. Users can create an account and login with a user name and password or they can use an external login provider such as Facebook, Google, Microsoft Account, Twitter or others.

You can configure ASP.NET Core Identity to use a SQL Server database to store user names, passwords, and profile data. Alternatively, you can use your own persistent store, for example, an Azure Table Storage.



List of Roles of Application – Only Admin has Access to this page

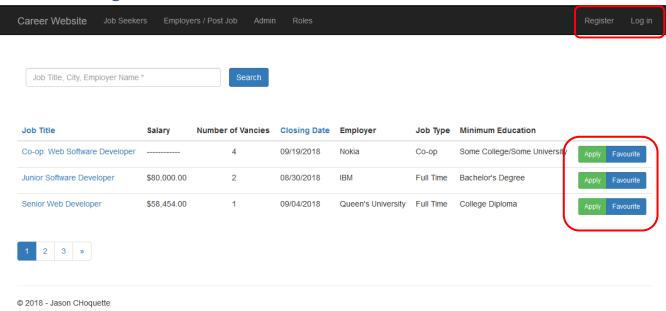


Employer/Admin view

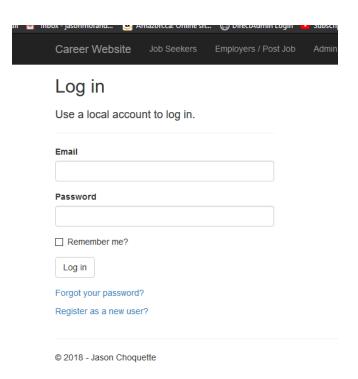
Queries

Candidate	Employer	Admin
Which employers have the	Who are the local candidates	Number of Weekly/Monthly
highest rating?	with specific qualifications?	users
What are the highest paying	How many candidates have	Number of Job Matches
jobs?	applied to a job?	
Find all jobs within a certain	What is the employers' rating?	Who are the employers/Users
distance/postal code		who haven't used the site in
		three or more months? (Email
		to encourage them to return to
		site.)
What are the newest job	Average time to find a	Who is the most popular
openings?	candidate	employer? (discounts)
Which jobs are closing within		Which employers hire the
the next week?		most?
Which job has the candidate		Which postal code(s) have the
applied to?		most job openings?
What are all of the jobs a		
certain employer has openings		
for?		

Website Design



Website landing page – Anonymous User



Login/Registration Page

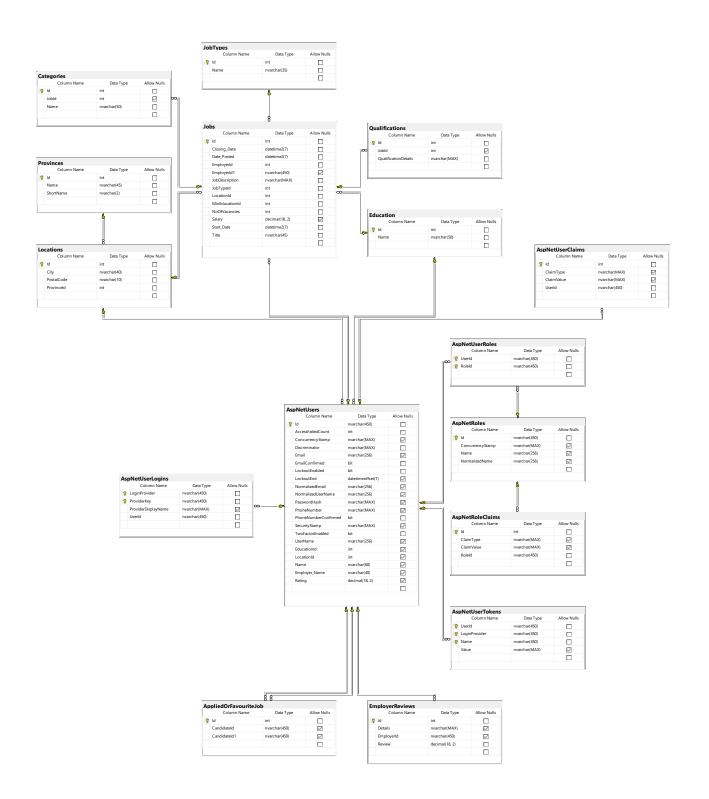
Appendices

Appendix I Class Diagram



Appendix II Database Design





Appendix III Project Structure

