**Capstone Project**

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| **Topic** | **Max Marks** |
| .NET with ado.net and EF | **100** |

**Domain:**

Job Consultancy

**About:**

Career Solutions is a well-established Job consultancy company with proven track record. In order to help Job seekers company has planned to open online job portal.

You have been assigned the task of creating the job site for Career Solutions

**Challenges:**

**The current system is manual, automate it.**

**What is Expected?**

* WebApp should provide home page with the services and facilities offered by the company to their clients
* There can be two types of users in the website job seeker and the Employer. (Enum)
* Job Seekers are provided with a free registration with the website where as Employer has to get Login Id and Password by registering with any one of the branch offices. (Register class-🡪 method JobSeekerRegister(), EmployerRegistration())
* Job seekers can register with the website by providing their complete details including personal, professional, academic details in a structured manner provided by the website. They also need to provide their key skills along with the expert field also. Addition to that resume can be uploaded. 3 classes-Personal, Professional and Academic.

* Job searching should be available in the Home page by providing the corresponding industry and specialization.

(Class- JobSeekerOperations Class--🡪 method name SearchJob(string industry,string specialization)

* Details about the search should be visible only to the registered customers.
* Registered customer should get a list of recommended jobs once he/she login into website according to their preferences
* Registered job seekers can apply for the jobs
* Employer should able to post the requirement after logged in to the site

(Jobs Class—Post Requirement, Edit Requirement,Delete Requirement, SearchJobs)

* Posting the job includes filling a form which includes details about what they are looking for so that matching with the job seeker will be easy.
* Additional to posting the Jobs employer should also have option to search for the employees by providing key requirements.
* Employer can download the resume also.
* Employer will get a email notification whenever job seeker apply for the jobs posted by them

**Data Dictionary:**

**To be implemented by the developer**

# TASK

**Connect to the data Source to perform above operations.**

**NOTE:** Results and graphs must be backed with appropriate inferences and insights.

1. Create Class Library with appropriate validations. Library Name:ConsultancyBusinessLogic Layer
2. Create Class Library with Ado.net in the phase of connectivity(Ado.net) and entity framework with Code First Appraoch to do all operations. Library Name: ConsultancyDAL Logic Layer
3. Create a Class Library named helperLayer to call it in the web app using MVC Architecture.
4. Use Proper naming conventions on all levels in the project.

**Submission guidelines:**

1. You have to prepare a power point presentation with screenshots of outputs (10 -15 slides) for each task.
2. Mention Problem Statement and Your approach to the problems
3. Have all comments written properly in the respective file
4. The solution file must be put inside a folder. The folder name must be your first name\_LastName.