**Users and Project management System**

**User Management**

Project is **proof of work** to demonstrate the skills. With the short giving notice, I tried to elaborate the area based as much as possible on requirement for first release.

Below are the technologies.

1. Dotnet framework 4.x
2. MVC 5
3. Microsoft Authorization and authentication.
4. SQL 2018
5. Entity framework
6. ADO.net (to demonstrate c# code)
7. HTML5, CSS3, JavaScript, Bootstrap, JQuery, Json etc..

As code is self-explanatory, but tried to explain

Few are the key points listed below:

1. Add connection sting (SQL connection) to Config file
2. SQL user should have privilege of DML commands. ( Insert, Update, delete).
3. I have used standard Microsoft Authorization and authentication project. Based on above project when application is run first time, It will create super admin and 2 Roles hard coded: we can avoid hard coded roles by manage this role by config or DB or file system etc.
   1. Employee
   2. Guest
4. Super Admin is hard coded on file **startup.cs** with following details.
   1. User name: Vijay
   2. Email: [vijudk@gmail.com](mailto:vijudk@gmail.com)
   3. Password: Dell@1234
5. It will create following DB tables
   1. AspNetRoles
   2. ASPNetUserClaims
   3. AspNetUserLogins
   4. AspNetUserRoles
   5. AspNetUsers
6. Super Admin can add users.
7. All users can see the Project list but only Admin and Employee roles-based user can do following operation
   1. Add Project
   2. Update Project
   3. Delete Project
   4. Add Comments (work in progress of implementation)
8. Super admin can add Users.
9. Super admin can add Roles.

**CRUD Operation**

I have implemented the CRUD operation using ADO.net. using ADO dotnet, I can demonstrate c# code skill. I have demonstrated using following objects from ADO.

1. SQLConnection
2. Command
3. SQLAdaptor
4. DataTable
5. SQLRead

I have applied CRUD operation for Project list.

Created following table

1. Projects
2. UserComments
3. Projects
4. Images

Created table using 3rd normal form and used below constraints.

Constraint used in table

1. Primary key
2. Foreign Key
3. Default
4. Not null
5. Identity

Written stored procedure to implement CRUD operation. SQL file will be attached in project.