INSTRUCTIONS

Please read the instructions carefully before doing the questions.

- You are **NOT allowed** to use any other materials. You are **NOT allowed** to use any device to share data with others.
- You must use **Visual Studio 2019 or above, MSSQL Server 2008 or above** for your development tools.

IMPORTANT – before you start doing your solution, MUST do the following steps:

1. To do your program, you must use **ASP.NET Core Razor Pages. Note that y***ou are not allow to connect direct to database from Razor Pages, every database connection must be used with Repository and Data Access Objects. The database connection string must get from appsettings.json file.*

   In the case your program connects directly to database from Razor Pages, you will get 0 mark.

1. Create Solution in Visual Studio named **PRN221PE_FA22_TrialTest_StudentName**. Inside the Solution, Project *ASP.NET Core Razor Page named:* ***CandidateManagement_StudentName*****.**
2. Create your MS SQL database named **CandidateManagement** by running code in script **CandidateManagement.sql.**
3. Set the default user interface for your project as **Login** page.

Note

Install package using Tools → NuGet Package Manager → Package Manager Console

```
Install-Package Microsoft.EntityFrameworkCore.SqlServer -Version 5.0.17
Install-Package Microsoft.EntityFrameworkCore.Tools -Version 5.0.17
Install-Package Microsoft.EntityFrameworkCore.Design -Version 5.0.17

Install-Package Microsoft.Data.SqlClient -Version 3.0.1 (for ADO.NET option)
```

- Install package using CLI or Power Shell

```
dotnet add package Microsoft.EntityFrameworkCore.SqlServer --version 5.0.17
dotnet add package Microsoft.EntityFrameworkCore.Design --version 5.0.17
dotnet add package Microsoft.EntityFrameworkCore.Tools --version 5.0.17

dotnet add package Microsoft.Data.SqlClient --version 3.0.1 (for ADO.NET option)
```

- Connection String

"Server=(local);Uid=sa;Pwd=**1234567890**;Database=**CandidateManagement**"

Entity Framework Core
- *Install dotnet-ef for CLI*
dotnet tool install --global dotnet-ef --version 5.0.17

- *Use Entity Framework Core to generate Object Model from existing database – CLI*
dotnet ef dbcontext scaffold "Server=(local);Uid=sa;Pwd=**1234567890**;Database=**CandidateManagement**" Microsoft.EntityFrameworkCore.SqlServer --output-dir Models

- *Generate database from domain classes – CLI.*
dotnet ef migrations add "InitialDB"
dotnet ef database update

Entity Framework Core
- *Use Entity Framework Core to generate Object Model from existing database – Package Manager Console*
Scaffold-DbContext "Server=(local);Database= **CandidateManagement**;Uid=sa;Pwd=1234567890;" Microsoft.EntityFrameworkCore.SqlServer -OutputDir Models

- *Generate database from domain classes – Package Manager Console*
Add-Migration "InitialDB"
Update-Database -verbose