Exercise 05 Client Server Setup PART 1

~~Create a new ASP.NET Web Application (.NET Framework) project, name it and the solution “WebAppFSIS”.~~

~~Use “WebForms” with “Configure for HTTPS” option unchecked.~~

~~Update all Nu-Get Packages. Replace the navbar code in the site.master with the following:~~

~~</asp:ScriptManager>~~

~~<div class="container">~~

~~<div class="navbar navbar-inverse">~~

~~<nav class="navbar navbar-expand-md navbar-light fixed-top">~~

~~<a class="navbar-brand" href="Default.aspx" runat="server">~~

~~<strong>Bootstrap 4+</strong>~~

~~</a>~~

~~<button class="navbar-toggler" type="button"~~

~~data-toggle="collapse" data-target="#navbarMenuName"~~

~~aria-controls="navbarMenuName" aria-expanded="false"~~

~~aria-label="Toggle Navigation">~~

~~<span class="navbar-toggler-icon"></span>~~

~~</button>~~

~~<div class="collapse navbar-collapse" id="navbarMenuName">~~

~~<ul class="navbar-nav">~~

~~<li class="nav-item dropdown">~~

~~<a class="nav-link dropdown-toggle" href="#"~~

~~id="navbarSubMenu" data-toggle="dropdown"~~

~~runat="server" style="color:black"~~

~~aria-haspopup="true" aria-expanded="false">~~

~~ExercisePages~~

~~</a>~~

~~<div class="dropdown-menu" aria-labelledby="navbarSubMenu">~~

~~<a class="dropdown-item"~~

~~href="~/ExercisePages/ExerciseHome.aspx"~~

~~style="color:black" runat="server">~~

~~ExerciseHome~~

~~</a>~~

~~<a class="dropdown-item"~~

~~href="~/ExercisePages/SimpleQuery.aspx"~~

~~style="color:black" runat="server">~~

~~Simple PKey Query~~

~~</a>~~

~~</div>~~

~~</li>~~

~~<li class="nav-item">~~

~~<a class="nav-link" href="~/Default.aspx"~~

~~style="color:black" runat="server">Home</a>~~

~~</li>~~

~~<li class="nav-item">~~

~~<a class="nav-link" href="~/About.aspx" runat="server"~~

~~style="color:black">About</a>~~

~~</li>~~

~~<li class="nav-item">~~

~~<a class="nav-link" href="~/Contact.aspx" runat="server"~~

~~style="color:black">Contact</a>~~

~~</li>~~

~~</ul>~~

~~</div>~~

~~</nav>~~

~~</div>~~

~~</div>~~

~~<div class="container body-content">~~

~~Add a folder to the WebApp project and name it “ExercisePages”.~~

~~Add two “WebForm with Master Page” to the folder and name them “ExerciseHome” and “SimpleQuery”, and select the site.master master page for both.~~

~~In the ExerciseHome Form add a <h1>Hey Man</ h1>~~

~~Run to see if it works, if not make sure the replacement code in the site.master is exactly as above. Do not continue until the code runs.~~

~~Go to your GitHub account and create a new repo that is empty.~~

~~Copy the URL of the new repo into the clip board.~~

~~In Visual Studio go to the bottom right and click on “Add to Source Control” and click on Git. Save your work, then use the bottom most “Publish Git Repo” and copy the URL into the yellow area. Finally click “Publish”.~~

~~Add a “Class Library” project to the solution and call it “FSISSystem”.~~

~~Add three folders to the FSISSSystem project called BLL, DAL, and ENTITIES.~~

~~Go to the WebAppFSIS project’s reference area and add a project reference to the FSISSystem project.~~

~~Run the code again and make sure it works before moving on to PART 2. Save to GitHub repo.~~

~~Checking of the Client/Server exercises will be done in class.~~

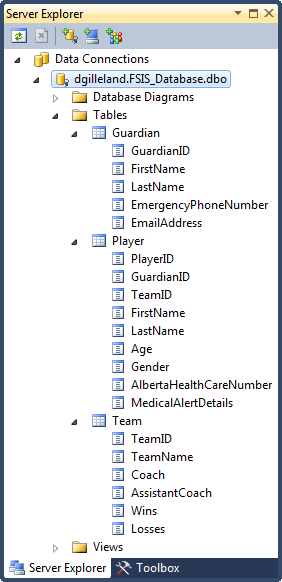
**Checking Guide**

|  |  |
| --- | --- |
| **** | **Item** |
|  | 1. Solution and WebApp project have **correct names** |
|  | 2. Class Library has **correct name** |
|  | 3. Server project class Library has folders for **BLL** and **DAL** |
|  | 4. Web Application has **correct name** and is the **Startup Project** |
|  | 5. Web Application **references** the Class Library |
|  | 6. Web Application has the ExercisePages folder and WebForms |
|  | 7. Solution, Web Application and Class Library are in the same physical folder (with no extra items) |

Exercise 05 Client Server Setup PART 2

ENTITIES Layer

Create the following Entity classes for the tables from the database. Be sure to

* select the proper data type for all properties, based upon the SQL data type of the corresponding table column;
* no constructors required

You must create Entity classes for the following. Ensure you use appropriate Entity Framework notation. Add the System.ComponentModel.DataAnnotations to the application library project.

* **Guardian**
* **Player**
* **Team**

### Checking Guide

|  |  |
| --- | --- |
| **✓** | **Item** |
|  | Each class has the correct property names and data types. |
|  | Necessary notation is in place. |
|  | Nullable types (if any) are correctly applied to the appropriate  properties |
|  | Selected property created in the requested implementation. |
|  |  |

EntityFramework Package Download, DAL Layer, and web.config

1. ~~Using Manage NuGet Packages, add~~ *~~EntityFramework~~* ~~to your FSISSystem and web application projects. Add a reference to System.Data.Entity to both the projects.~~
2. ~~Create your Data Access Layer class FSISContext~~ which inherits DbContext. Create the default constructor which will assign the base value of “FSIS\_db” for DbContext class. Add a property using the datatype DbSet<T> for each of your entities. Access type for this class will be “internal”.
3. ~~Configure your solution’s knowledge of the database by making the following changes to your system.~~
   * ~~Edit the web application’s~~ *~~web.config~~* ~~file to have the following for the <connectionStrings> tag  
     <connectionStrings configSource="WebConnectionStrings.config"/>~~
   * ~~Add a new configuration file to the root of the web application and name it “~~*~~WebConnectionStrings.config~~*~~”; on the inside, put the following code  
     <connectionStrings>  
      <add name="FSIS\_db"  
      connectionString="Data Source=.;Initial Catalog=FSIS\_Database;Integrated Security=True;"  
      providerName="System.Data.SqlClient"/>  
     </connectionStrings>~~
   * ~~Edit the web application’s~~ *~~web.config~~* ~~file to have the following tag <contexts> added to the <entityFramework> tag.  
     <contexts>~~

~~<context disableDatabaseInitialization="true"  
 type="FSISSystem.DAL.FSISContext,FSISSystem">~~

~~</context>  
</contexts>~~

### Checking Guide

|  |  |
| --- | --- |
| **✓** | **Item** |
|  | The provided **files** and package **libraries** are correctly added to the project |
|  | References have been properly set up. |
|  | Context class has been properly set up. |
|  | Correctly modified *web.config* file and correctly added/edited the *WebConnectionStrings.config* file. |
|  | Correctly modified *web.config* file and correctly added the entityframework *<contexts>* tag. |