Configuration

*The IDE of this guide is Microsoft® Visual Studio Community 2017 v15.3.1

1. Publish the on IIS Server

1) Open the **TimeSheet** project in **Visual Studio**.

2) Before publish, make sure **Project Url** is set to *https://hr.nantien.edu.au* . This can be configure by right-click on **TimeSheet** project file, select Properties, and then navigate to **Web** tab. Remember to save file after making the change.

   * Note: If the system does not allow you to change the url for virtual directory, go to project's root folder in file explore, open *.vs\config\applicationhost.config*, configure **binding**'s **bindingInformation** attribute like the following:

```
<sites>
    <site name="TimeSheet" id="4">
        <bindings>
            <binding protocol="https" bindingInformation="*:443:hr.nantien.edu.au" />
            <binding protocol="http" bindingInformation="*:62526:hr.nantien.edu.au" />
        </bindings>
    </site>
</sites>
```

3) On the **Build** page of the main window, click **Publish TimeSheet**.

4) In the **Publish** panel, choose **TimeSheet** profile, and click **Publish** button on its right.

   * Note: If the system prompt to enter credential, user name is: **Administrator**, password is: **Nt!123**

2. Configure server setting after publish

1) Press WIN + Q, search **Remote Desktop Connection** and open it, connect to computer **10.200.130.63**

   * Note: The machine can only be remote within NTI's intranet.

2) Enter user name: **Administrator**, password: **Nt!123**

3) Remember the credential.

4) Open **Internet Information Service (IIS) Manager**, which is pinned to toolbar already.

5) In the **Connections** panel on the left, click **hr** site.

6) In the **Actions** panel on the right, click **Edit Permissions…**

7) In the **Security** tab, click **Advanced** button.

8) Double click on **hr** principle to edit its permission.

9) Check at least the following boxes: **Read & Execute**, **List folder contents**, and **Read**.

10) Close all setting windows, go back to **IIS Manager**.

11) In the **Connections** panel on the left, click **Application Pools**.

12) Right click on the **hr** application pool in the middle panel, and then click **Start** in the **Actions** panel on the right, under **Application Pool Tasks**.

13) The website should be running now. Type the Url https://hr.nantien.edu.au in any browser to see if it works. Make sure to do steps (1) – (12) every time after publish.

3. Configure localhost testing environment

1) Open the **TimeSheet** project in **Visual Studio**.

2) In the **Solution Explorer** panel, open **Web.config** in the project's root folder.

3) Uncomment the following **connectionStrings** and comment the others with the same names:

```
<connectionStrings>
    <add name="DefaultConnection" connectionString="Data Source=(LocalDb)\MSSQLLo
    <add name="AdminDb" connectionString="Data Source=(LocalDB)\MSSQLLocalDB; Att
    <add name="TimeSheetDb" connectionString="Data Source=(LocalDB)\MSSQLLocalDB;
    <!--<add name="DefaultConnection" connectionString="Data Source=sql_server.na
    <add name="AdminDb" connectionString="Data Source=sql_server.nantien.edu.au;I
    <add name="TimeSheetDb" connectionString="Data Source=sql_server.nantien.edu.
</connectionStrings>
```

4) Uncomment the following **appSettings** and comment the others with the same keys:

```
<!--Hosting Version-->
<!--<add key="ida:ClientId" value="858e2ab5-2332-4134-8fbd-d582caaa73e0" />
<add key="ida:ClientSecret" value="sySQMYQgoW8Xot4lE5p/NgIMvL+30SBIrcwPmmfoznM=" />-->

<!--Localhost for testing-->
<add key="ida:ClientId" value="47c18150-d931-46b5-9c2f-7ed76dcd1b7e" />
<add key="ida:ClientSecret" value="SHpDkbR1q6V9Gyv4jjxMMl0H9wNWDDo2CNTSEg42cf0=" />

<!--<add key="ida:PostLogoutRedirectUri" value="https://hr.nantien.edu.au/" />-->
<add key="ida:postlogoutredirecturi" value="https://localhost:44300" />
```

5) In the **Solution Explorer** panel, open **Global.asax** in the project's root folder.

6) Uncomment the following **Database Initializers**:

```
protected void Application_Start()
{
    // Seed the database with sample data for development. This code should be removed for production.
    Database.SetInitializer<TimeSheetDb>(new TimeSheetInitializer());
    Database.SetInitializer<AdminDb>(new AdminDbInitializer());
```

4. Configure host testing environment

1) Open the **TimeSheet** project in **Visual Studio**.

2) In the **Solution Explorer** panel, open **Web.config** in the project's root folder.

3) Uncomment the following **connectionStrings** and comment the others with the same names:

```
<connectionStrings>
  <!--<add name="DefaultConnection" connectionString="Data Source=(LocalDb)\MSSQLLocalDB;AttachDbFilen
  <add name="AdminDb" connectionString="Data Source=(LocalDB)\MSSQLLocalDB; AttachDbFilename= |DataDir
  <add name="TimeSheetDb" connectionString="Data Source=(LocalDB)\MSSQLLocalDB; AttachDbFilename= |Dat
  <add name="DefaultConnection" connectionString="Data Source=sql_server.nantien.edu.au;Initial Catalo
  <add name="AdminDb" connectionString="Data Source=sql_server.nantien.edu.au;Initial Catalog=PayRollA
  <add name="TimeSheetDb" connectionString="Data Source=sql_server.nantien.edu.au;Initial Catalog=PayR
</connectionStrings>
```

4) Uncomment the following **appSettings** and comment the others with the same keys:

```
<!--Hosting Version-->
<add key="ida:ClientId" value="858e2ab5-2332-4134-8fbd-d582caaa73e0" />
<add key="ida:ClientSecret" value="sySQMYQgoW8Xot4lE5p/NgIMvL+30SBIrcwPmmfoznM=" />
<!--Localhost for testing-->
<!--<add key="ida:ClientId" value="47c18150-d931-46b5-9c2f-7ed76dcd1b7e" />
<add key="ida:ClientSecret" value="SHpDkbR1q6V9Gyv4jjxMMl0H9wNWDDo2CNTSEg42cf0=" />-->
```

```
<add key="ida:PostLogoutRedirectUri" value="https://hr.nantien.edu.au/" />
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5) In the **Solution Explorer** panel, open **Global.asax** in the project's root folder.

6) Comment the following **Database Initializers**:

```
// Seed the database with sample data for development. This code should be removed for production.
//Database.SetInitializer<TimeSheetDb>(new TimeSheetInitializer());
//Database.SetInitializer<AdminDb>(new AdminDbInitializer());
```

5. Operates on SQL Server data in Visual Studio

1) Open the **TimeSheet** project in **Visual Studio**.

2) Click **View** in menu, open **Server Explorer** panel.

3) The database **TimeSheetDb** should appear under **Data Connections**. If not, please proceed the following steps:

4) Click **Connect to Database** icon on top of **Server Explorer** panel.

5) Set the connection as showing below:

Server Name: **sql_server.nantien.edu.au**
Authentication: **SQL Server Authentication**
User name: **dev**
Password: **Nti1@3456**
Database name: **PayRollApp**

If you have connected to the database correctly, you can see the database in **SQL Server Object Explorer**, too.

6) To edit a data row in a table, right click on a table, and click **View Data**, and then edit on any data directly.
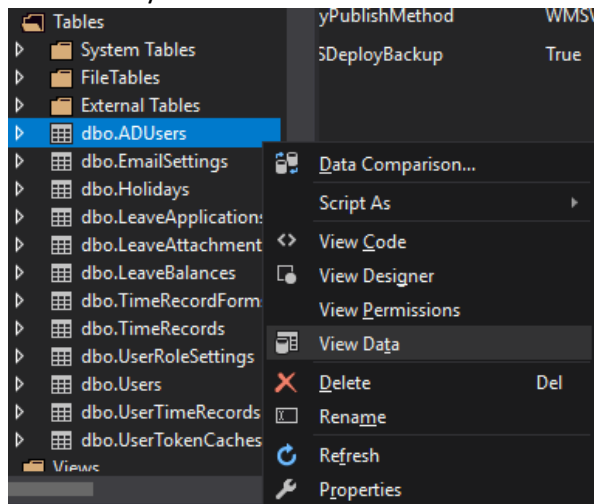
Note: This application applies code-first model to generate database by coding Entity Framework classes, but it does not update database automatically if there is any changes applied to model classes in database. Remember to update database using migration, or update it manually (which is a quicker way) after making any changes to a model's properties, otherwise you will get the 'The context has changed since the database was created' exception.

DO NOT use DropCreateDatabaseIfModelChanges initializer to recreate the database! It will delete the database for good.

To modify a table manually, simply double click on a table to open **Designer**, and change the table to be the same as the model class. Click **Update** button to apply the change.
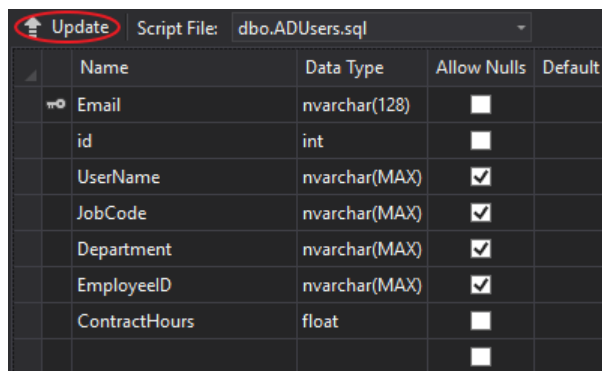
6. Configure Azure Active Directory Online

The application integrates Microsoft platform to verify users. To do so, it requires to setup application, group and users on **Microsoft Azure Active Directory**.

1) Use the following user account to login https://portal.azure.com/
username: r.lin@m.nantien.edu.au
password: **Robin…**

2) Click **Azure Active Directory** on the left navigation.

3) To change setting of the application, click **App registrations** in Manage panel, and then choose **TimeSheet_20161125181130** (Application ID 858e2ab5-2332-4134-8fbd-d582caaa73e0)

4) To change group setting, click **Users and groups** in Manage panel, then click Groups at bottom right, and then click **NTI Staff** that is **Synced**.

NM	NTI MARKETING DEPARTI	Mail enabled security	Synced	...
NS	NTI Staff	Mail enabled security	Synced	...
NS	NTI Staff	Office	Assigned	...
NS	NTI Staff	Office	Assigned	...
NS	NTI STUDENT ADMINISTI	Mail enabled security	Synced	...

The group is synchronised with the local group of NTI intranet.