Pre-Setup Installations

Before we can begin coding and creating our database, we require certain tools to be installed on client machines:

For our purposes, we will be using Visual Studio and C# to develop an ASP web page

A free “Community Edition” can be obtained here: [Visual Studio Community Edition 2013](http://www.visualstudio.com/en-us/products/visual-studio-community-vs.aspx)

Our database will be created using PostgreSQL which can be obtained here: [PostgreSQL v9.4.0](http://www.postgresql.org/download/windows/)

.NET libraries for linking our code with PostgreSQL will be done using Npgsql: [Npgsql for PostgreSQL](http://npgsql.projects.pgfoundry.org/)

Enable IIS within Windows features:

-Under ‘Programs and Features’ in the control panel, select ‘Turn Windows features on or off’

-Check the option labeled ‘Internet Information Services’

-Press ‘ok’

Creating and Configuring the Project

1. Within Visual Studio:
   1. Login to your Visual Studio profile and create an empty WebApplication
   2. Once the project has been created, double click on the .sln file to open the solution explorer
2. In the solution explorer, right click the top level solution and select ‘Enable NuGet Package Restore’
   1. Once enabled, right click the solution and select ‘Manage NuGet Packages for Solution’
   2. Under ‘Online’, select ‘All’
   3. Search for and install ‘Npgsql’
3. Right click the WebApplication and select properties
   1. Under the ‘Web’ menu item scroll down to the ‘Servers’ sub section
   2. In the drop down menu, select ‘IIS Express’
   3. Make sure the Project URL is set to http://localhost/
4. Right click the WebApplication under ‘Add’, select ‘New Item’
   1. Select ‘Web’
   2. Select the ‘Web Form’
   3. ASP/HTML coding will be done in the .aspx file
   4. C# coding for the backend will be done in the .aspx.cs file