

ASP.NET Notes (Class 9/23/2011)

1. Download and install NUnit.
2. In Control Panel (System And Security>System>Advanced System settings>Environment variables modify Path by adding path to most recent net folder under bin folder under nunit under program files. e.g. C:\Program Files (x86)\NUnit 2.5.2\bin\net-2.0
3. In Visual Web Developer 2010 Express, choose File>New>Project. Select C#, Windows), add to solution, call it Tests, and it should be placed in the src folder along with the previous related projects. Alternatively, choose File>Add>New Project File. If the Solution Explorer isn't visible, choose View>Solution Explorer.
4. In the Solution Explorer, select Properties under Infrastructure. In the Application tab (on the left), set Assembly Name as EmployeeTraining.Infrastructure and Name Space as EmployeeTraining.Infrastructure. Leave other defaults as is.
5. Click on Build in the left menu – change warning level to 3 in the drop down. Browse to change the output path to Web/bin (the bin folder of the Web project created earlier) and check checkbox for XML documentation. Click on Save icon in toolbar to save.
6. Do similar steps for DataAccess and Save.
7. For Tests, do similar steps except the output will be to the bin folder under tests. Click on Build Events in the left menu – in the bottom window (Post build event command line), type the following: nunit-console EmployeeTraining.Tests.dll
8. Set the Solution Build dependencies for the Test Project – right click on the solution in the Solution Explorer and select Project Dependencies. In the drop-down, select Tests and check all boxes except Web.
9. Adding References – Expand References under the Tests project. Right click on References>Add Reference.
  - a. Click on the Project tab in this window and add references to
    - i. Infrastructure project,
    - ii. DataAccess project, and
    - iii. BusinessLogic projectAs you add references, these will show up in the references list at the right
  - b. Click on the Web tab in this window and add references to
    - i. Enterprise Library Shared Library
    - ii. Microsoft.Practices.ServiceLocation
    - iii. Microsoft.Practices.Unity
    - iv. Microsoft.Practices.Unity.Interception
  - c. Click on the Browse tab in this window and add references to
    - i. Microsoft.Practices.EnterpriseLibrary.Data.dll (in the folder where you downloaded the Framework)
    - ii. nunit.framework.dll (e.g. at C:\Program Files (x86)\NUnit 2.5.2\bin\net-2.0\framework)
    - iii. log4net.dll (e.g. at C:\Users\NotAdmin\Desktop\Projects\incubating-log4net-1.2.10\log4net-1.2.10\bin\net\2.0\release)

10. From the above folder which contained the log4net.dll, copy the log4net.xml file to the Tests/bin folder
11. Create configuration file for nunit – In Windows Explorer, double click C:\Program Files (x86)\Microsoft Enterprise Library 5.0\Bin\EntLibConfig.exe – you want the application file, not the XML configuration file – choosing the right file will be easier if you are showing extensions (in Windows Explorer, choose Tools>Folder Options>View and uncheck the box “Hide extensions for known file types – if the menu isn’t displayed in Windows Explorer, click the Organize drop down at the left, choose Layout>make sure that Menu bar is checked) – double clicking this file will launch the Microsoft Enterprise Configuration Console). Save the file to the bin folder under Tests with the name EmployeeTraining.Tests.dll.config – the name has to match the .dll file with a .config extension at the end.
12. In the Configuration tool, click on Blocks and add “Data Settings” and “Configuration Settings”. Expand the Connection String section under Data (why?). File>Save and exit the tool.
13. With a text editor (e.g. Notepad), open the file you just saved. If one downloads the corresponding file from the EmployeeTraining files posted on the syllabus for 9/23, all the necessary modifications to convert the file just saved to the downloaded file aren’t clear, so at this point we will switch to the downloaded file.
14. In the Test project>Properties.AssemblyInfo.cs file, add the following line (e.g. at the end of the file)  
`[assembly: log4net.Config.XmlConfigurator(ConfigFile="..\bin\EmployeeTraining.Tests.dll.config", Watch=true)]`
15. Modify the nunit-console.exe.config file to use the .NET framework 4.0 This file is located in the NUnit home directory (e.g. C:\Program Files (x86)\NUnit 2.5.2\bin\net-2.0). Alternatively, copy Rick’s edited version of this file (download the external config files from the syllabus link) and copy to the NUnit bin directory.

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