

Notes from 9/16/2011 class:

- 1) In Windows Explorer, in Projects folder on desktop, create a folder corresponding to the database, say OwnerProperties. In this folder, create 3 folders, database, documentation, and src.
- 2) Open Visual Web Developer. Create New Project, Select C# on left and click on Web on left and then ASP.NET Web Application on right. In the box below, name this "Web", browse for the src folder created above and uncheck the box at the right concerning creation of a new folder. After this step is executed, in Windows Explorer, you should see that a "Web" folder has been created under src.
- 3) In Visual Web Developer, select File>New Project in menu at the top and in the menu at the left under C# select Windows (in the previous step you had selected Web when you had created the Project). At the bottom, give it a name of "Infrastructure", verify that the location is still under web, but change the next line to "Add to solution". This step should create an infrastructure folder under src.
- 4) Repeat the previous step to create two more Windows projects – one called BusinessLogic and the other called DataAccess. Make sure the location each time is under Web.
- 5) Setting dependencies – Right click Solution in Solution Explorer on the right and then choose Properties and then choose "Project Dependencies" in the left menu. You select the project in the drop down and the right and then check the appropriate dependencies below. Set dependencies as follows:
Web – DataAccess, Infrastructure, BusinessLogic
Infrastructure – nothing
DataAccess – Infrastructure
BusinessLogic – DataAccess, Infrastructure

[Thus in our original layer diagram, things depend on things to the right and the valueobject layer (infrastructure)]

- 6) Right click on Solution in Solution Explorer on the right and select Build.

IIS Changes

- 7) Control Panel>Programs>Turn Windows Features On and Off. Expand Internet Information Services. Check Web Management Tools and World Wide Web Services Under World Wide Web Services, expand Application Development Features and check ASP.NET. You can also check Server Side Includes if you want that. Click OK.
- 8) In your browser, enter <http://localhost> and you should see an IIS7 Welcome Screen. This is pointing by default at c:\inetpub\wwwroot.
- 9) Go to IIS Manager. You must have administrator privileges to run IISManager. You can get to IIS Manager in several ways – one way is Control Panel>System and Security>Administrative Tools. (Note: If you are running under an account that does not have administrator privileges, you can right click on IIS Manager and select "run as administrator".) At the left click your computer name and then under Web Sites, select "Default Web Site". At the right under Edit Site> Basic

Settings, if you change the physical path to point at your web folder and then refresh the <http://localhost> page, you will get an error concerning the configuration data. The steps below are to fix that problem.

- 10) However, first, rather than using the default web site, we will delete that and create our own so as to avoid any potential confusion about ports. So at the left, right click on Default Web Site and select "Remove".
- 11) We will now add our website by right clicking Sites at left and then choosing "Add Web Site", give it a name and then browse for the physical path to point at the web directory under the OwnerProperties folder (in this example).
- 12) Click on default document, and make sure that default.aspx appears in the list.
- 13) In IIS Manager, with the web site selected at the left, doubleclick on "Modules" in the IIS section in the middle and then click on "Configure Native Modules" at the upper right and select the too Manage Engine entries.
- 14) At the command prompt, cd \, cd windows\Microsoft.net\Framework, do a dir and then cd to the most recent version of the framework (e.g. v4.0.30319) and then type the following:
aspnet_regiis.exe -i

If you get a message about needing administrative privileges to do this, you must do the following first and then repeat the above step. The above step must also be done while you are logged on as administrator, not merely running the command prompt by right-clicking on it and saying "run as administrator".

Control Panel>System and Security>Action Center>change User Account Control Settings. Drag the slider all the way down to the bottom. Note: You must be logged on as administrator to do this, you can't simply enter your administrator password when prompted to do so under Control Panel. **Restart PC/VirtualBox**

- 15) Insufficient permissions error – Go to IIS Manager, right click on your site name, select change permissions, select your user, click Edit, and select Add and then types Users (without quotes in the box). Hit OK.
- 16) If you get another error, something about targetFramework not being recognized – In IIS Manager, select the web site on the left, click on Basic Settings, hit Select and then choose .Net4.0 (not classic), and reload your site.

Revised: 9/23/2011. Instructions are for Windows 7 Professional. Based on class instruction 9/16 by Rick Miller with help from William O'Beirne and Elisabeth Le.