1.264 Lecture 18

Connecting Web and database

Next class: ASP.NET book, chapter 4. Exercises due <u>after</u> class

Visual Studio (VSW) and SQL Server

- **VSW is a tool to build Web sites and Web services**
- **TA and you will set up the VSW Web server on your computer**
  - **Test to make sure that it is working correctly**
- **TA and you will then make sure SQL Server has an appropriate login that your Web site can use**
  - **Test to make sure that it is working correctly**
- **TA and you will then set up a connection string to your SQL Server database**
  - **Test to make sure that it is working correctly**
- **TA and you will then create one Web page that ties to a SQLDataSource**
  - **Test to make sure that it is working correctly**

Exercise 1: Set SQL Server database access

- **Create login for SQL Server in SSMS if you haven't:**
  - **In Object Explorer, open Security-> Logins**
  - **Right click, select 'New login'**
  - **Select SQL Server authorization; enter name, password**
  - **Select default database= MIT1264**
  - **Check all server roles, check user mapping for MIT1264**

Exercise 2: Create Web site, database connection

- **In VSW, create new Web site Lecture18**
- **Download Lecture18 zip file**
  - **Unzip it in a temporary directory and then drag and drop its files to the <u>main folder</u> in Lecture18 Web site.**
    - **Do not drag the download folder into the Web site.**
  - **MIT.master has common graphics for each page and a placeholder for active content**
  - **Web.sitemap contains navigation structure of your site**
- **Refresh the solution explorer after moving files**
- **Tools-> Connect to Database**
  - **Server: .\SQLEXPRESS or SQLEXPRESS**
  - **Login name and password you set up earlier**
  - **Database name: MIT1264**
  - **Test the connection; it should work**
- **Look at database in Database Explorer in VSW**

Exercise 3: Create XHTML form (.aspx page)

- **View-> Other Windows ->Toolbox**
  - **To make toolbox appear along left margin of page**
- **File-> New File-> Web Form: Orders.aspx**
  - **Check master page and select MIT.master**
  - **Uncheck 'code in separate file'**
- **In Design view, from the Toolbox**
  - **Drag a SqlDataSource control into the ContentPlaceHolder**
  - **Click the arrow at its top right, then on configure source**
    - **Select connection you already created**
    - **Select Orders table**
    - **Check * to get all columns, ORDER BY Cust**
    - **Test connection and finish**
  - **Drag a GridView control on top of the SqlDataSource**
    - **Choose data source**
    - **Check 'enable sorting' and 'enable paging'**
  - **Add header 2 <h2> with "Orders". Save the page**
    - **Use the browser symbol on the toolbar to test the page**

Solution

MIT 1.264/ESD.264

Data Internet & Sys Integ Tech

Home > Orders

Orders

OrderNbr	Cust	Prod	Qty	Amt	Disc
1	211	Bulldozer	7	31000.0000	0.2
2	522	Riveter	2	4000.0000	0.3
3	522	Crane	1	500000.0000	0.4

Copyright © 2013 MIT 1.264/ESD.264

1.264J / ESD.264J Database, Internet, and Systems Integration Technologies
Fall 2013