Project Tools

CSE 403, Spring 2004 Software Engineering

Creating Web Service Project

• File \rightarrow New \rightarrow Project \rightarrow ASP.NET Web Service

New Project							
Project Types:		Templates:		0 0 0-0- 0 0 0-0-			
✓ Visual Basic Projects ✓ Visual C# Projects ✓ Visual J# Projects ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ <td< th=""><th>Windows Application</th><th>Class Library</th><th>Windows Control Library</th></td<>		Windows Application	Class Library	Windows Control Library			
		Application	Application	Service			
A project for creating XML Web services to use from other applications							
<u>N</u> ame:	WebService1						
Location:	http://iisqlsrv/WebService1						
Project will be created at http://iisqlsrv/WebService1.							
▼ Mor <u>e</u>		ОК	Cancel	Help			

Implementing Your Web Service

- Rename Service1.asmx
- Open code view of asmx file
- Code, Test, Code, Test ...
- Add [WebMethod] tag to methods you want to expose through your Web Service

```
[WebMethod]
public string HelloWorld()
{
return "Hello World";
}
```

Working in the Labs

- Lab machines have their own IIS server
- Develop and test your Web Services locally
- However, lab machines reimage themselves upon logout

- Check out project from source repository
- Copy project into IIS root usually at C: \Inetpub\wwwroot



- Open Computer Management
- Services and Applications → Internet Information Services → Web Sites → Default Web Sites
- Right Click on your project directory and choose Properties

- In the Directory tab, there is an Application Settings section
- Click the Create button and change the "Execute Permissions" menu to "Scripts only"
- Open your project in Visual Studio and you're ready to go!

HTTP Headers	Custom Errors	Server Exter	nsions			
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Directory	Documents	Directory Security				
When connecting to this resource, the content should come from:						
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C A share located on another computer						
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Directory browsing						
Application Settings						
Application name:	ImageSearchService	R <u>e</u> mo	ve			
Starting point:	\ImageSearchService					
Configuration						
Execute remissions: Scripts and Executables						
Application Protection:	Medium (Pooled)	 Unjoa 	rd			
	OK Capcel	Apply 1	Help			
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Using Web Services

Project → Add Web Reference

Add Web Reference	×						
Navigate to a web service URL (asmx or wsdl) and click Add Reference to add all the available services found at that URL.							
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Start Browsing for Web Services	Web services found at this URL:						
Use this page as a starting point to find Web services. You can click the links below, or type a known URL into the address bar.							
 Browse to: Web services on the local machine Browse UDDI Servers on the local network Query your local network for UDDI servers. UDDI Directory Query the UDDI business registry to find companies and production Web services. Test Microsoft UDDI Directory Locate test Web services to use during development. 	Web reference game: Add Reference						
	Cancel Help						

- Use your own web services on local machine or point to a wsdl file on the web
- http://api.google.com/GoogleSearch.wsdl

Using Web Services (cont.)

- Make give the web service a name that is easy to use
- Methods exposed by the web service can be called through the stub class generated by Visual Studio

ExampleWebService ws = new ExampleWebService(); Object obj = ws.exampleMethod();