

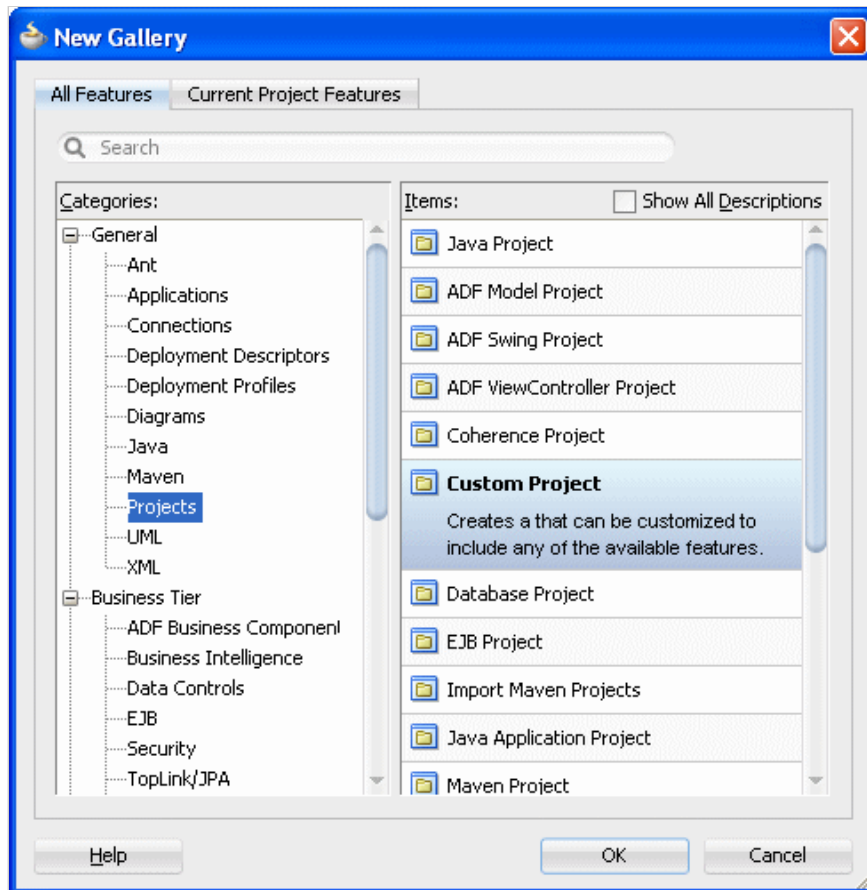
## Part 5: Creating a Web Service Proxy

If you need to access a web service from a Java client, you will need a java web service proxy. JDeveloper provides a wizard that will create one for you.

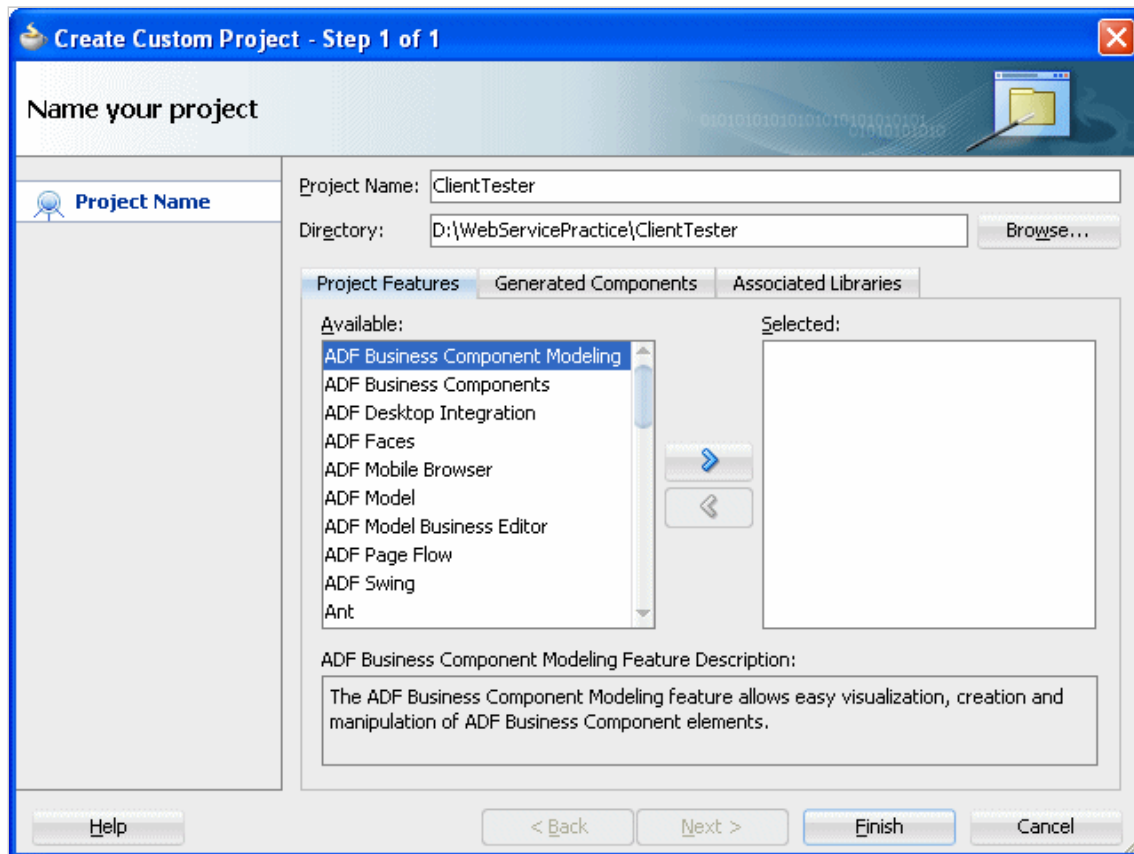
### Step 1: Creating the Web Service Proxy

In this section, you use a wizard to generate a Java proxy for calling a web service. Once complete, you can create a client to connect to it and use it.

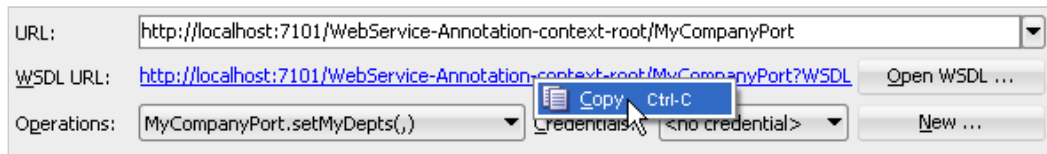
1. Create a new empty project. Right-click the Annotation project node and select **New**. In the New Gallery, click the **All Features** tab and then select **General > Projects** in the Categories list and **Custom Project** in the Items list. Click **OK**.



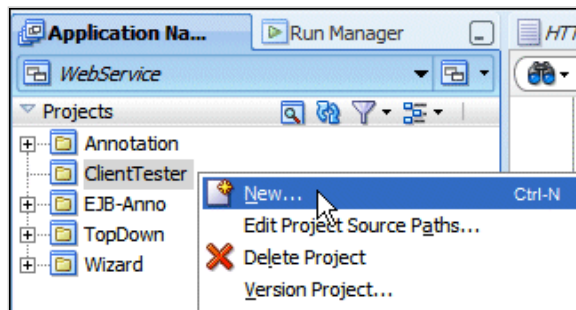
2. Create a new **Generic Project** and name it **ClientTester** and click **Finish**.



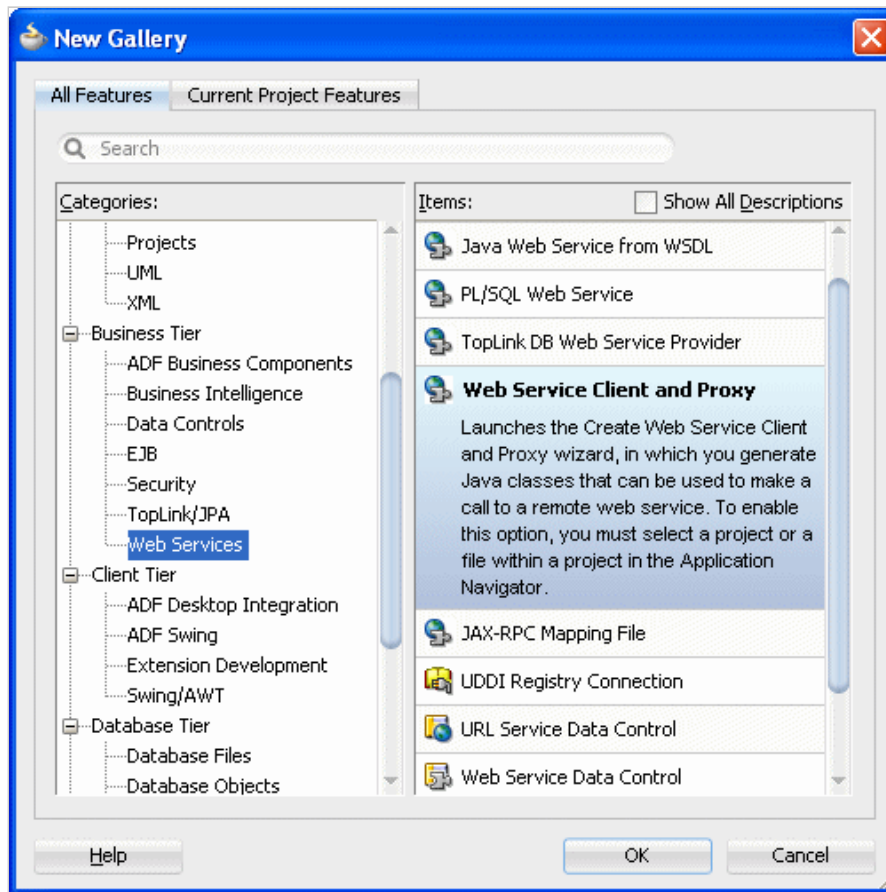
3. To use a client, you need to have the HTTP Analyzer up and running with one of your services. If it is not running, expand the **Annotation** project, and test the **MyCompany** class in the HTTP Analyzer. Confirm that it is up and working. (You could use any of the web services you created.)



4. Right-click the WSDL URL from the analyzer Copy. Do not close the HTTP Analyzer tab.
5. To generate the proxy, right-click the **ClientTester** project and select **New**.

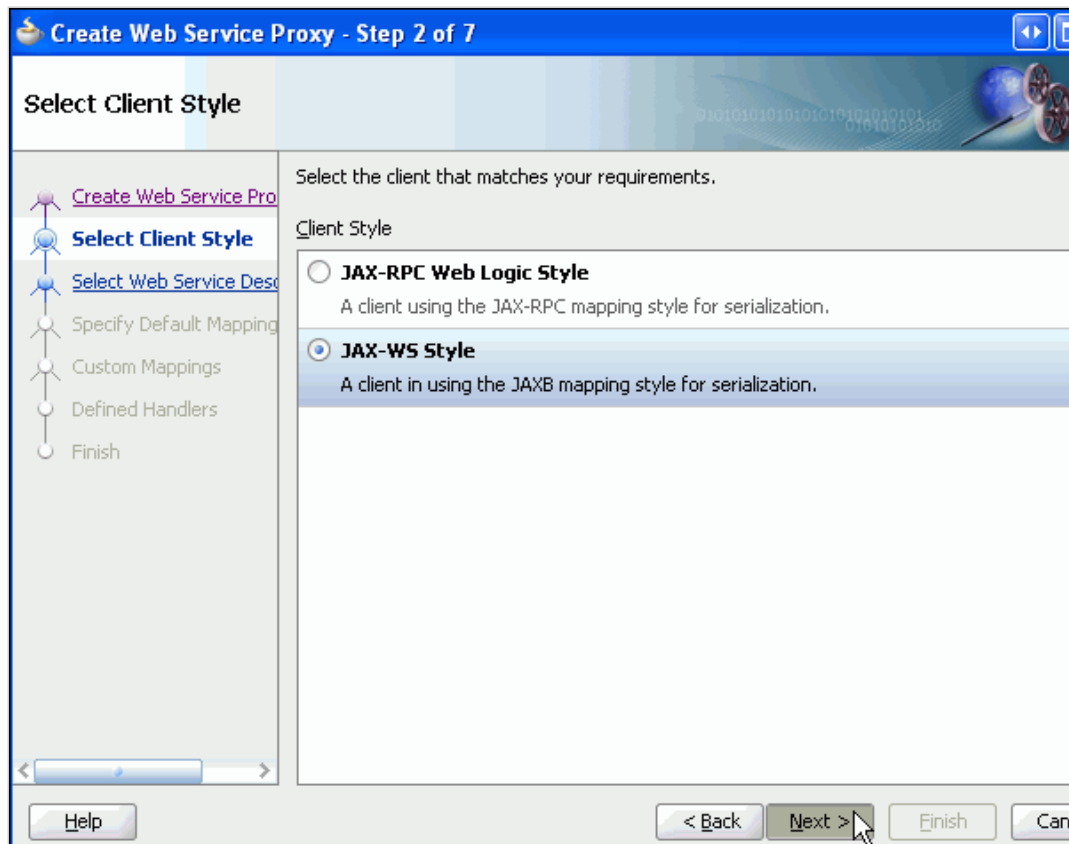


6. In the New Gallery, select the **All Technologies** tab. Expand the Business Tier node and select **Web Services** in the Categories list. Select the **Web Service Client and Proxy** item and click **OK**.



This action invokes the Create Web Service Proxy wizard.

7. Click **Next** to dismiss the Welcome page.
8. In the Select Client Style page, select the **JAX-WS Style** and click **Next**.

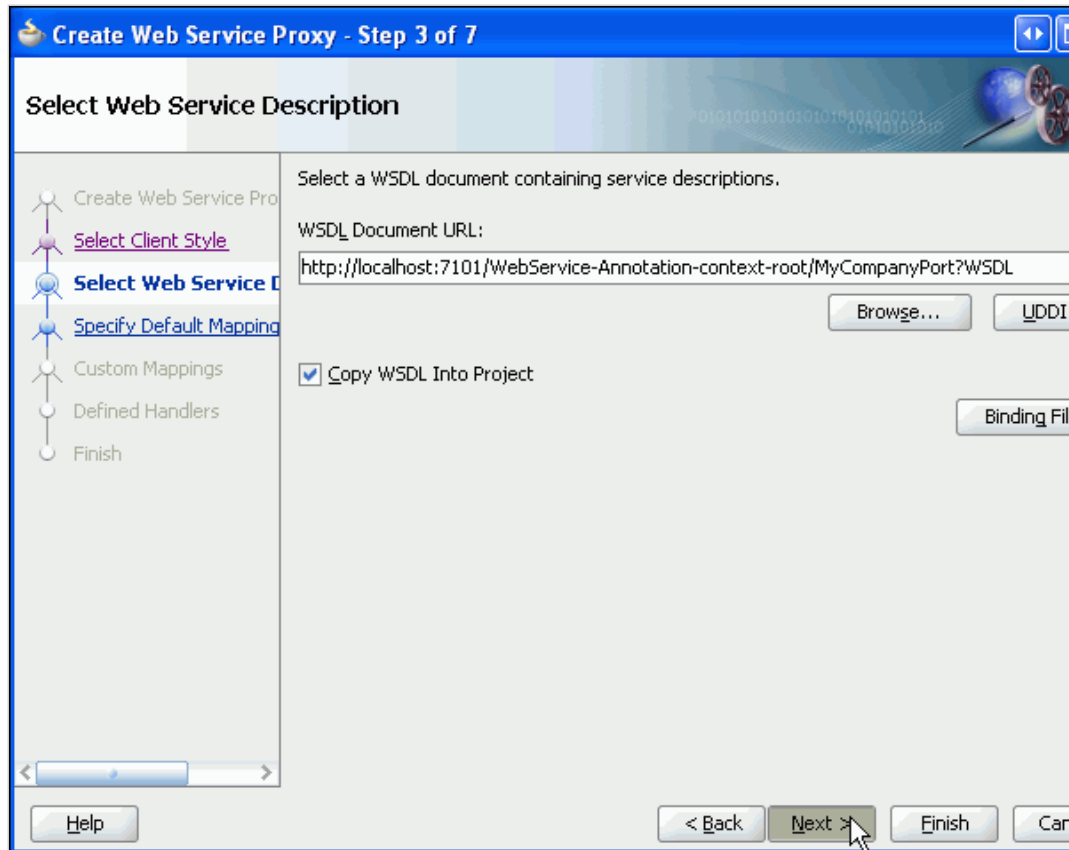


9. In the Select Web Service Description page, you specify the location of the WSDL service. There are two ways you can reference the WSDL: URL and File.

To use the URL, copy the URL from the HTTP Analyzer then paste it into the WSDL Document URL (such as **http://localhost:7101/WebService-Annotation-context-root/MyCompanyPort**).

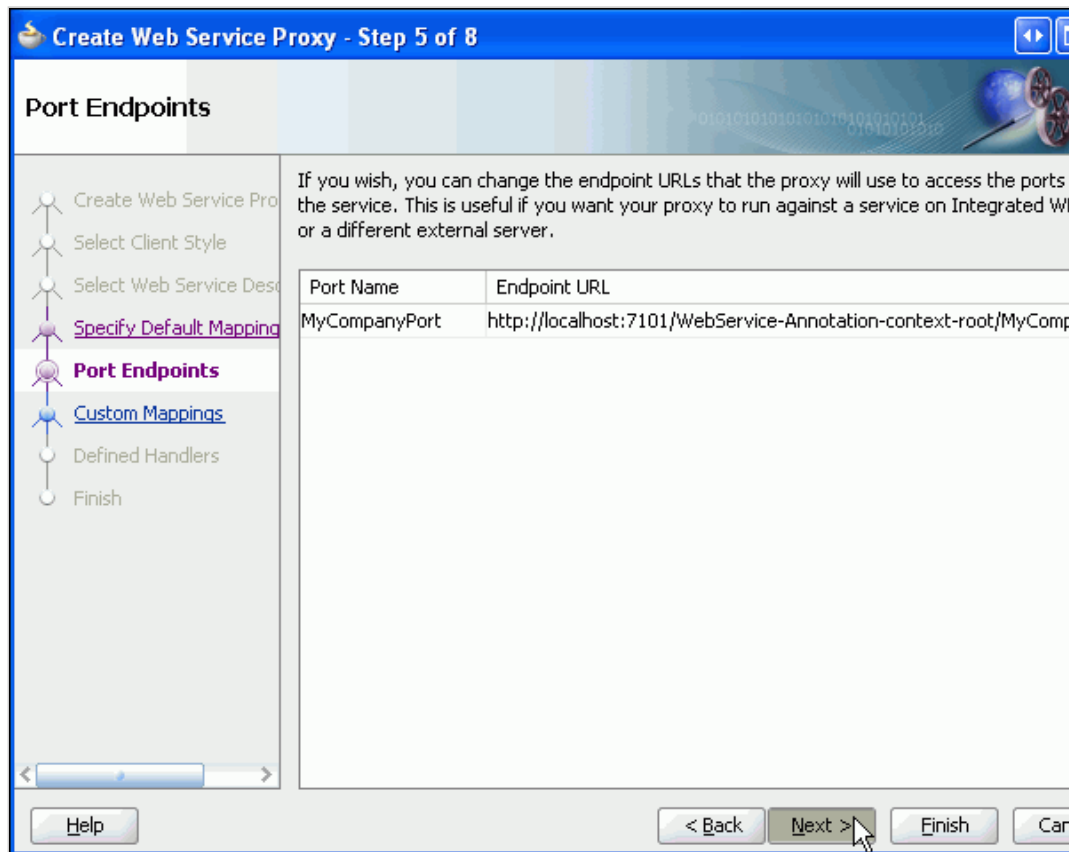
Then append to the URL: **?WSDL**

If you use the URL, then you must select the **Copy WSDL into Project** checkbox.

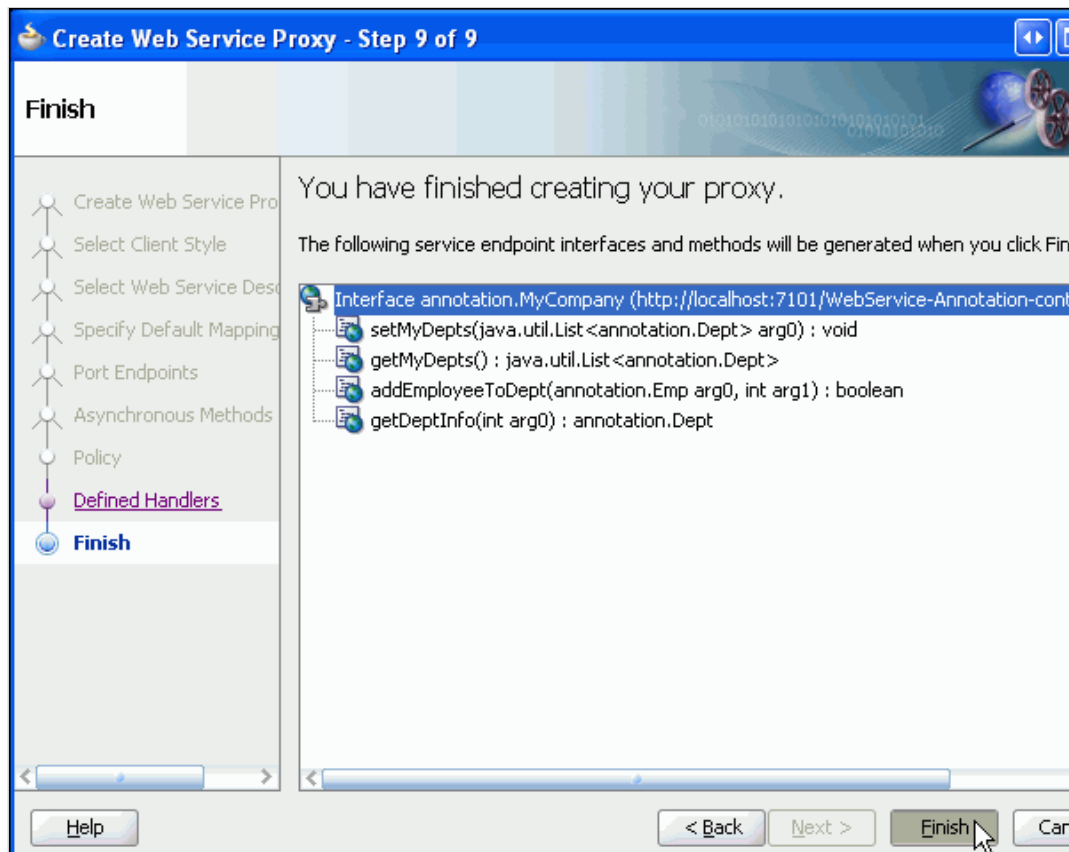



Alternatively you can use the browse button to find a WSDL file on your machine like you did earlier (for example, **D:\Temp\MyWebService1.wsdl**).

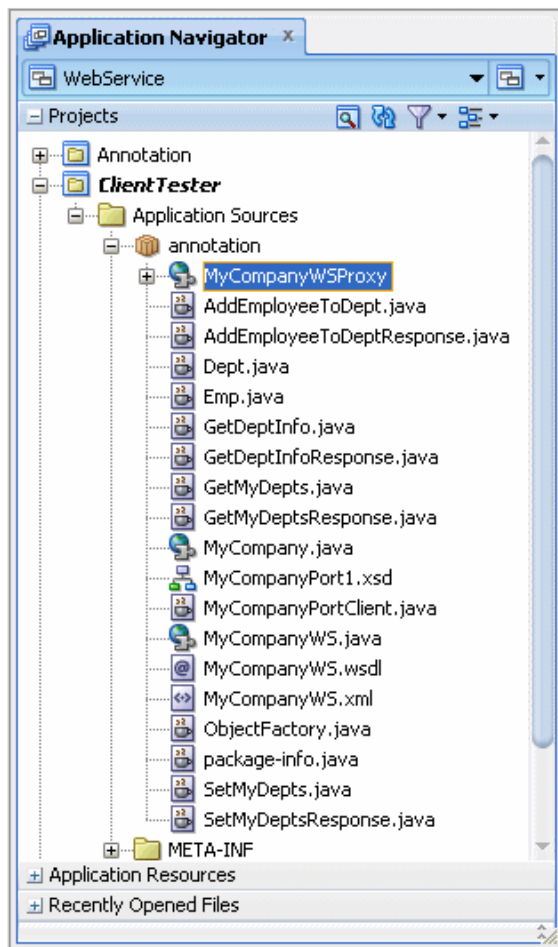
10. Click **Next**.
11. In the Specify Default Mapping Options, click **Next** to accept the default values. If you needed to change the Endpoint URL to point to a different server, you would do so here.



12. For the rest of the pages in the wizard, the default values are fine. Either click **Next** to examine the remaining steps, or click **Finish** to create the proxy.



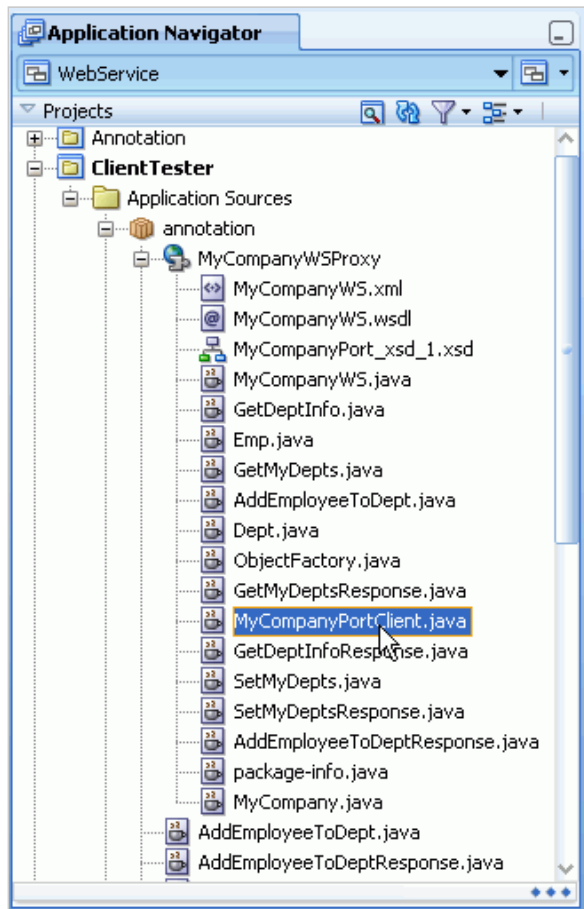
13. Click **Save All**  to save your work.
14. Expand the **ClientTester | Applications Sources | annotation | MyCompanyWSPProxy** nodes in the Application Navigator, which should look like the image below.



## Step 2: Creating and Testing the Client Proxy

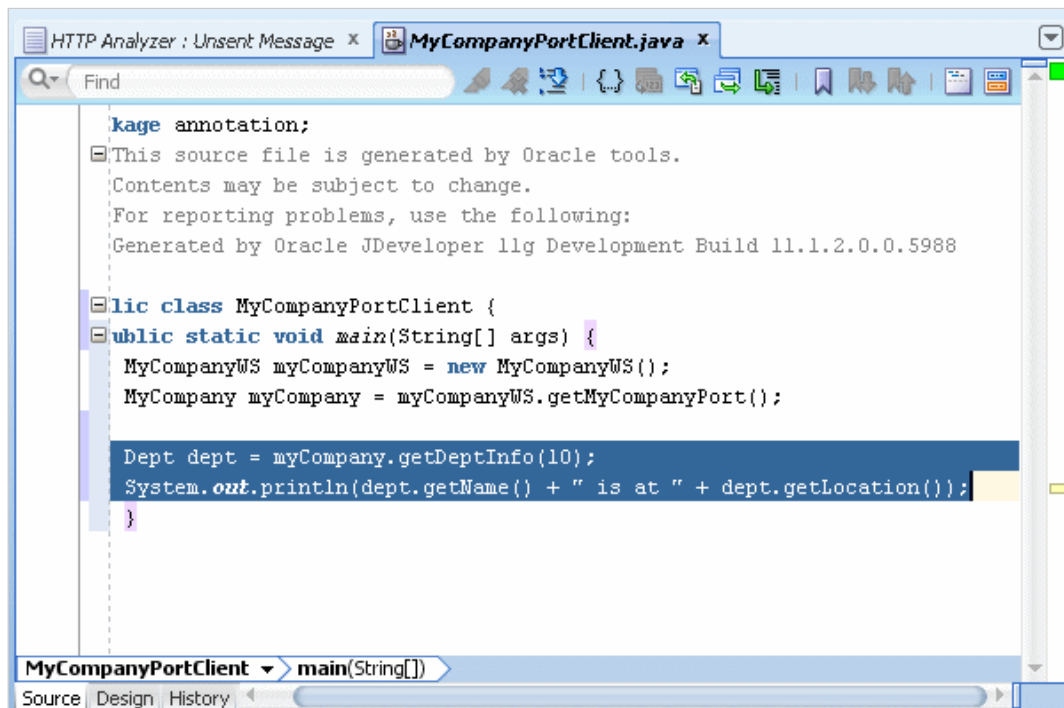
In this section you update the client class to invoke the web service proxy and return the result to the message window.

1. In the Application Navigator, Double-click the **MyCompanyPortClient.java** class to open it in the editor.



2. Add the following code to the main() method of the **MyCompanyPortClient** class:

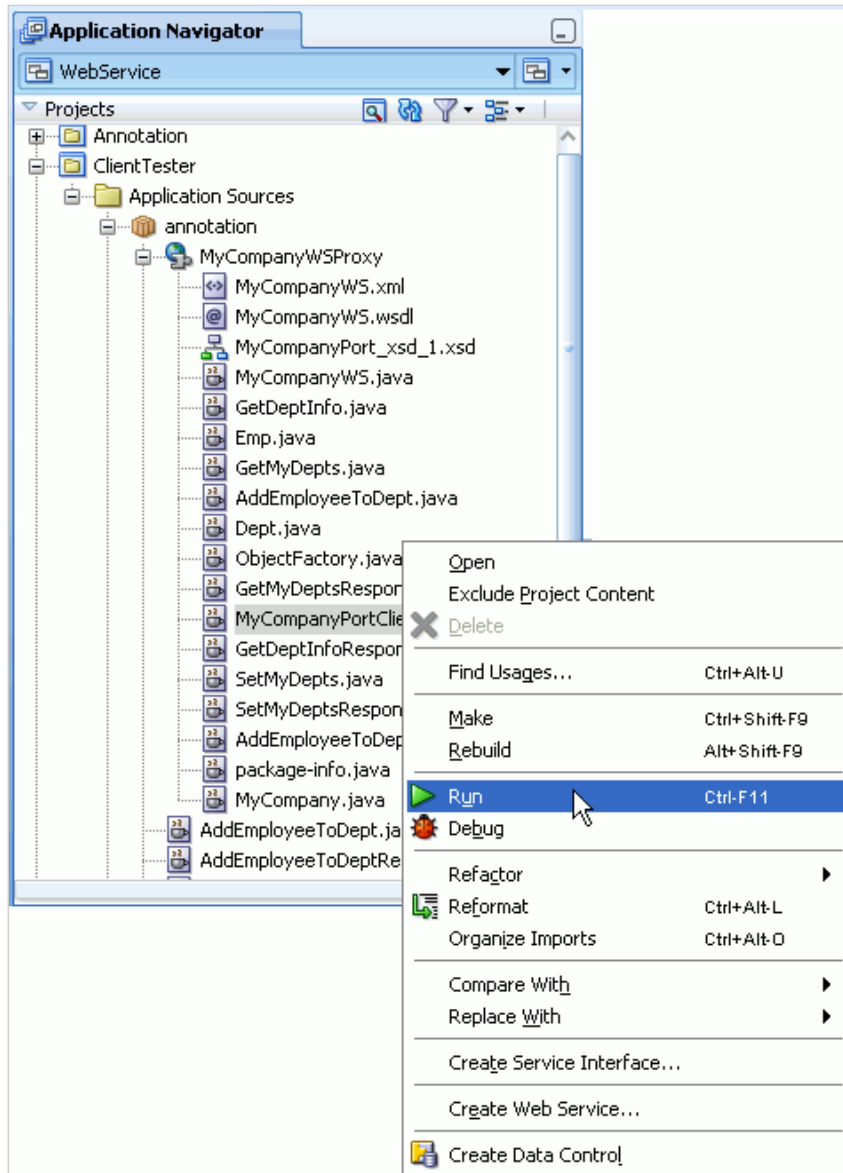
```
Dept dept = myCompany.getDeptInfo(10);
System.out.println(dept.getName() + " is at " + dept.getLocation());
```



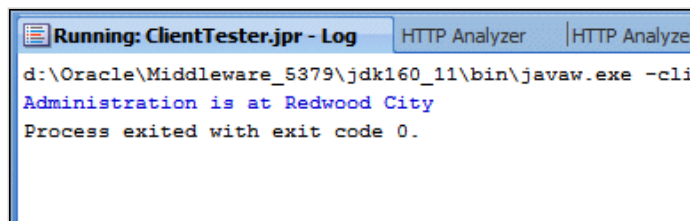
3. Click **Save All**  to save your work.

Now you can test the client proxy.

4. In the Application Navigator, right-click the **MyCompanyPortClient.java** file and select **Run**. (The HTTP Analyzer must be up and running to process the client request. If it is not up, go back to the Annotation project, right-click the **MyCompany.java** file and select **Test Web Service**. If you get errors and the test does not run, shut down JDeveloper and restart it.)



5. The results of the client can be viewed in the **ClientTester.jpr -Log** window. If successful, you should see **Administration is at Redwood City**.



6. Close all tabs in the editor, close the **Run Manager** window, and collapse all of the projects in the Application Navigator.



