Pre-Requisites:

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- Java 1.8

- Netbeans 8.02

- MySQL 5.6.21

- Glassfish 4.1

- Windows 8 PC

    o Disable IIS – Localhost port 8080 should be free
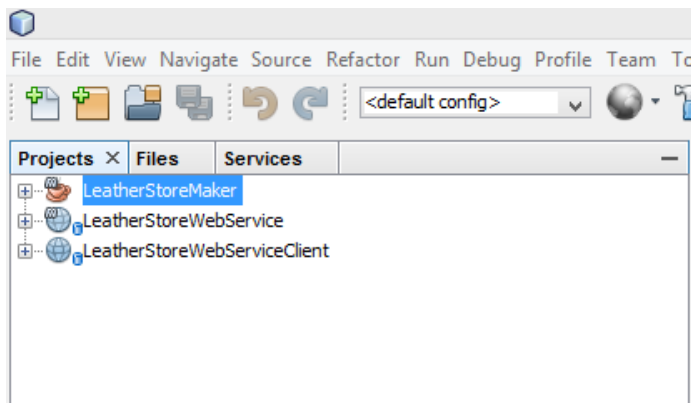
Project Structure:

Figure 1 - Netbeans tier (domain) pieces

The code base is divided into 3 domains (see figure 1 above) based on function –

Domain (Project)	Function
LeatherStoreMaker	Database initialization / setup
LeatherStoreWebService	SOAP (JAX) data tier
LeatherStoreWebServiceClient	Frontend JSP page

To configure database, compile and build the LeatherStoreMaker project. Once the database has been loaded, compile/build/run the other two project to access the frontend application.

Setup / Startup:

- Startup MySQL server
  - Create a "super user" account with the following settings:

Login	User
Password	Pass
Priveleges	All

- Startup Netbeans 8—
- Import all 3 projects
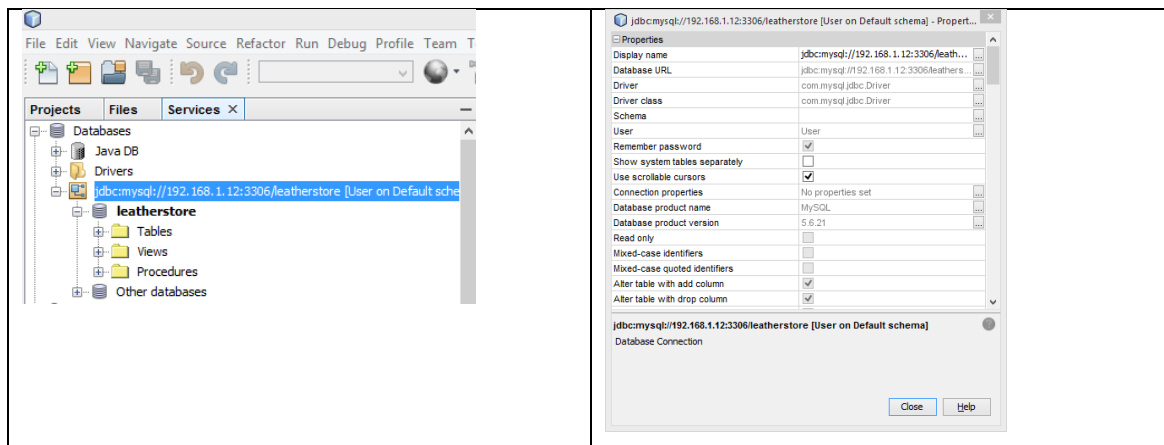- In the Sevice tab, verify the connection to your mysql instance (See Figure 2 below)

Figure 2 - Verify MySql connection settings

- Compile / Build the "LeatherStoreMaker" project
  - This should create/load the "leatherstore" database
- Startup Glassfish Server
- Modify the **LeatherStoreWebService\src\main\setup\sun-resources.xml** file based on your machines MySql configuration
  - The package version of the file points to the IP of the development machine for the project. This should be updated to localhost or your local IP.
- Compile, build and run the LeatherStoreWebService project
  - This will initially open an invalid page
  - To test out the web service tier by itself, navigate to http://localhost:8080/LeatherStoreWebService/LSWebService?Tester (See Figure 3 below)
  - To Access the WSDL file, navigate to http://localhost:8080/LeatherStoreWebService/LSWebService?WSDL
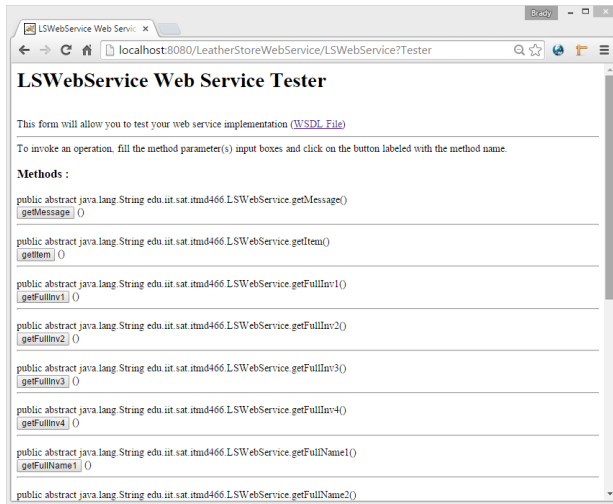
Figure 3 - LSWebService test page

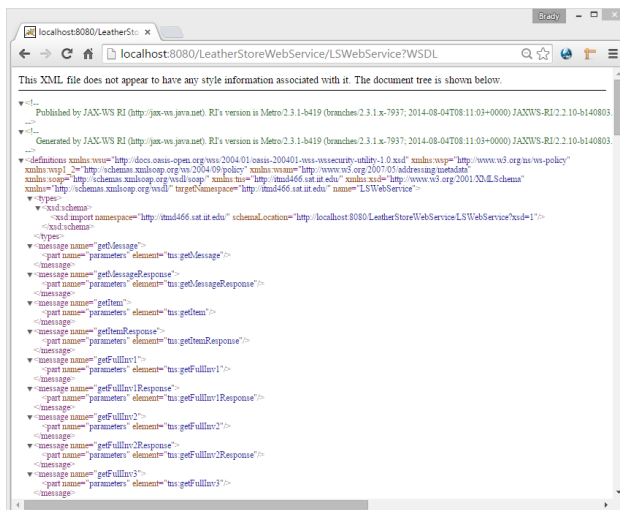**Figure 4 - LSWebService WSDL Page**

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- Compile, build and run the LeatherStoreWebServiceClient project
    - o   This should open

        http://localhost:8080/LeatherStoreWebServiceClient/index.jsp

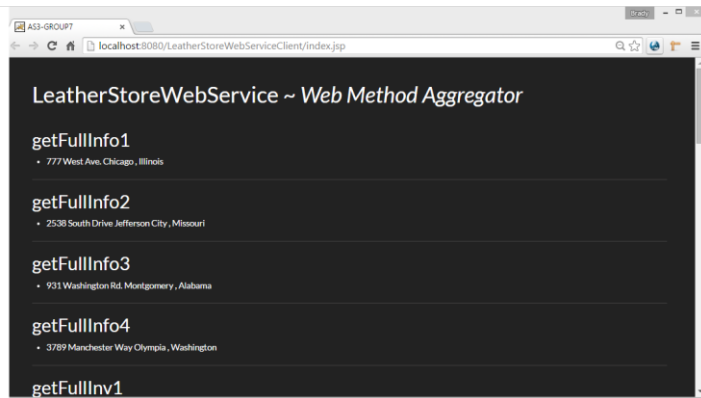   (see figure 5, 6 below)

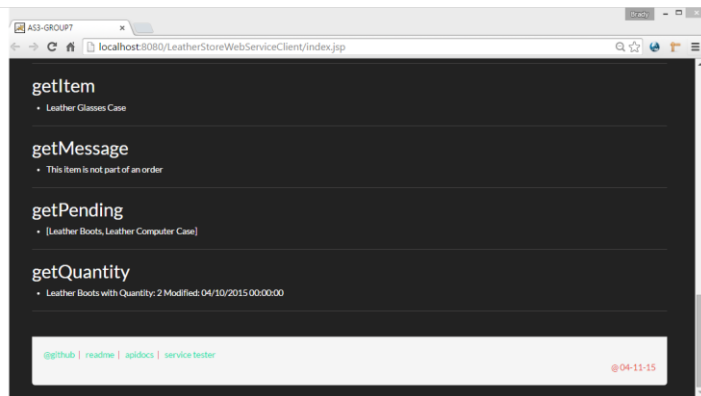**Figure 5 - index.jsp (header)**

Figure 6 - index.jsp (footer)

- The resulting jsp—
    - o   Invokes all method exposed by the webservice and writes the
        output in HTML formatted format

- o The footer portion of the page includes the following links:
  - github – link to the project github directory https://github.com/bradyhouse/ITM466/tree/master/assignment3
  - readme – link to a pdf copy of this document
  - apidocs – link to the java docs generated from the *WebServices project http://localhost:8080/LeatherStoreWebServiceClient/resources/apidocs/index.html
  - service tester – link to the *WebService tester page http://localhost:8080/LeatherStoreWebService/LSWebService?Tester