

SERVLETS AND JSP COURSE

DEVELOPMENT OF THE SMS SYSTEM



By the expert: Ubaldo Acosta



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1. INSTALLATION OF MYSQL

- We are going to take the documentation of the Java with JDBC course. To install Mysql, follow the following guide. If you already have the tools installed, you can skip this step:

<http://icursos.net/en/Servlets/Lesson19/CJDBC-B-Exercise-01-MySqlInstalation.pdf>



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2. DOWNLOAD DB SCRIPT FOR MYSQL

Download the script for the mysql database:

http://icursos.net/en/Servlets/Lesson19/sms_database.sql

Save to some path of our hard disk, for example:

C:\Courses\Servlets\Lesson19\sms_database.sql



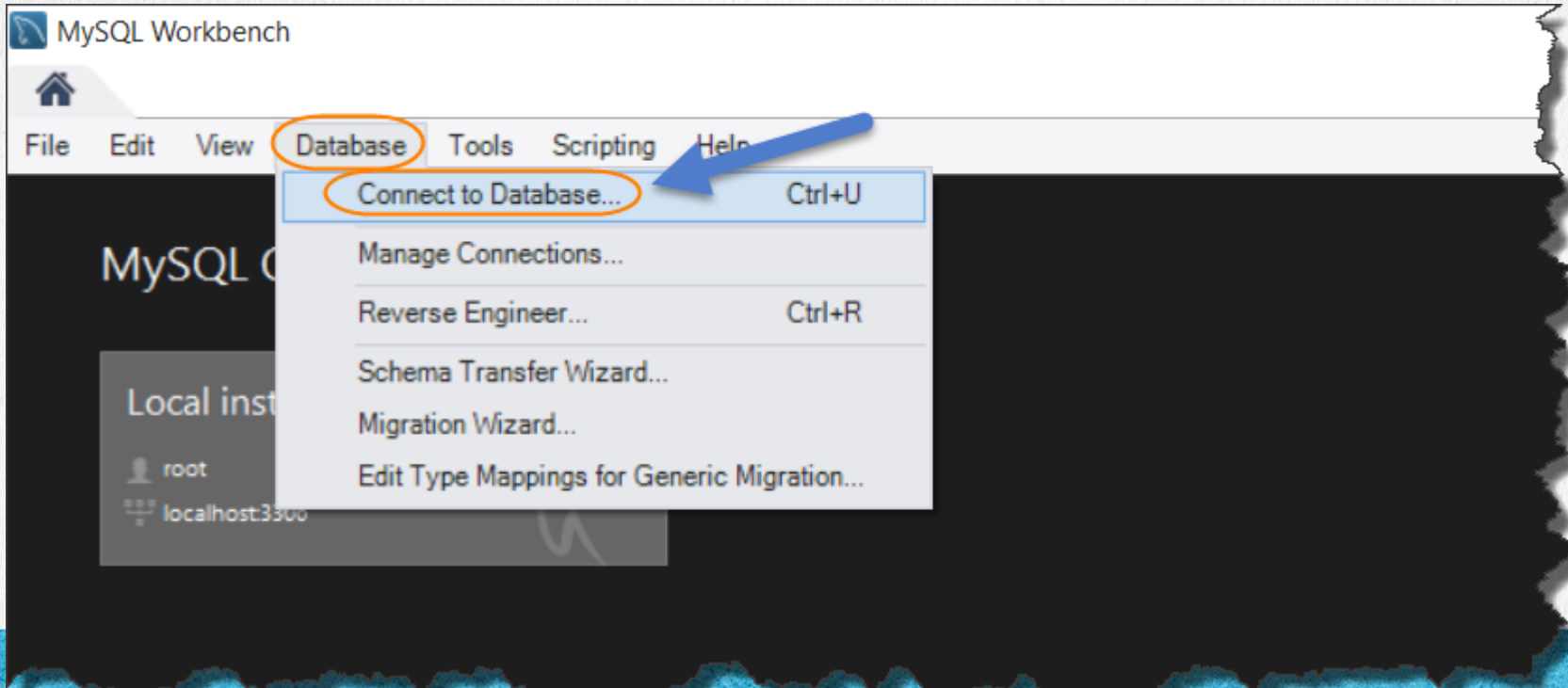
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3. LOAD THE DATABASE SCRIPT

Open MySql workbench and connect to the Database:

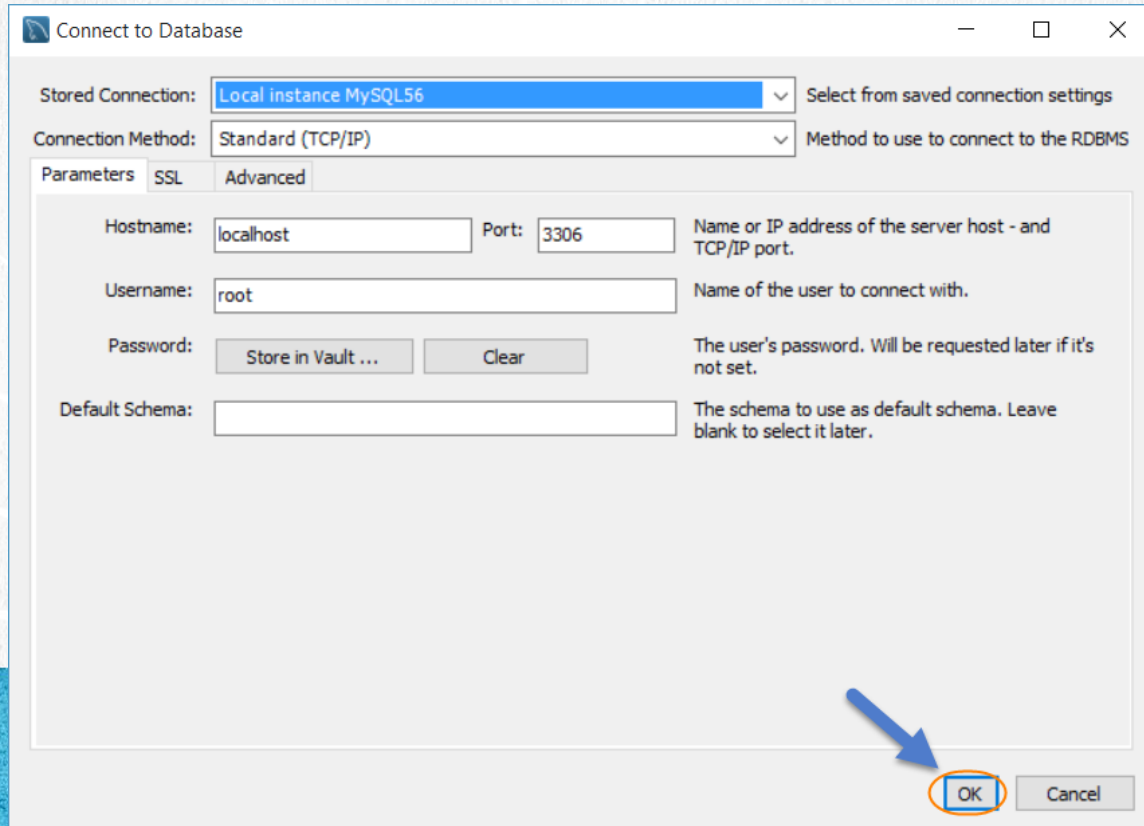


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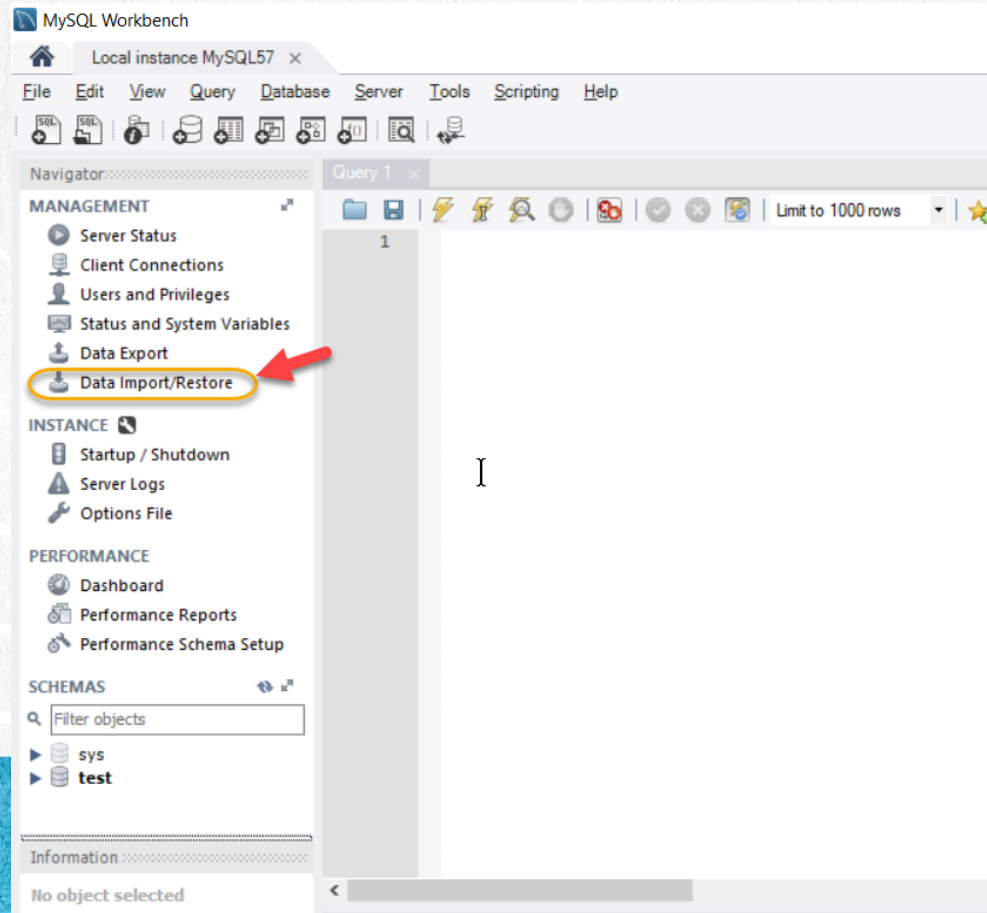
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3. LOAD THE DATABASE SCRIPT

Open MySql workbench and connect to the Database:



3. LOAD THE DATABASE SCRIPT



3. LOAD THE DATABASE SCRIPT

The screenshot shows the MySQL Workbench interface with the 'Data Import' wizard open. The wizard is titled 'Local instance MySQL57 Data Import'. It has two tabs: 'Import from Disk' and 'Import Progress'. The 'Import from Disk' tab is active, showing 'Import Options'. There are two radio buttons: 'Import from Dump Project Folder' and 'Import from Self-Contained File'. The 'Import from Self-Contained File' option is selected and circled in orange, with a red circle containing the number '1' next to it. Below this option, a text box contains the file path 'C:\Courses\Servlets\Lesson19\sms_database.sql', which is also circled in orange. To the left of the file path, there is a button labeled 'Load Folder Contents'. Below the text box, it says 'Select the SQL/dump file to import. Please note that the whole file will be imported.' At the bottom of the wizard, there is a button labeled 'Start Import', which is circled in orange and has a red arrow pointing to it, with a red circle containing the number '3' next to it. The background of the screenshot has a torn paper effect.

MySQL Workbench

Local instance MySQL57 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Query 1 Administration - Data Import/Res...

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

Dashboard

Local instance MySQL57

Data Import

Import from Disk Import Progress

Import Options

☐ Import from Dump Project Folder C:\Users\user\Documents\dumps

Select the Dump Project Folder to import. You can do a selective restore.

Load Folder Contents

☒ Import from Self-Contained File C:\Courses\Servlets\Lesson19\sms_database.sql

Select the SQL/dump file to import. Please note that the whole file will be imported.

Default Schema to be Imported To

Press [Start Import] to start...

Start Import

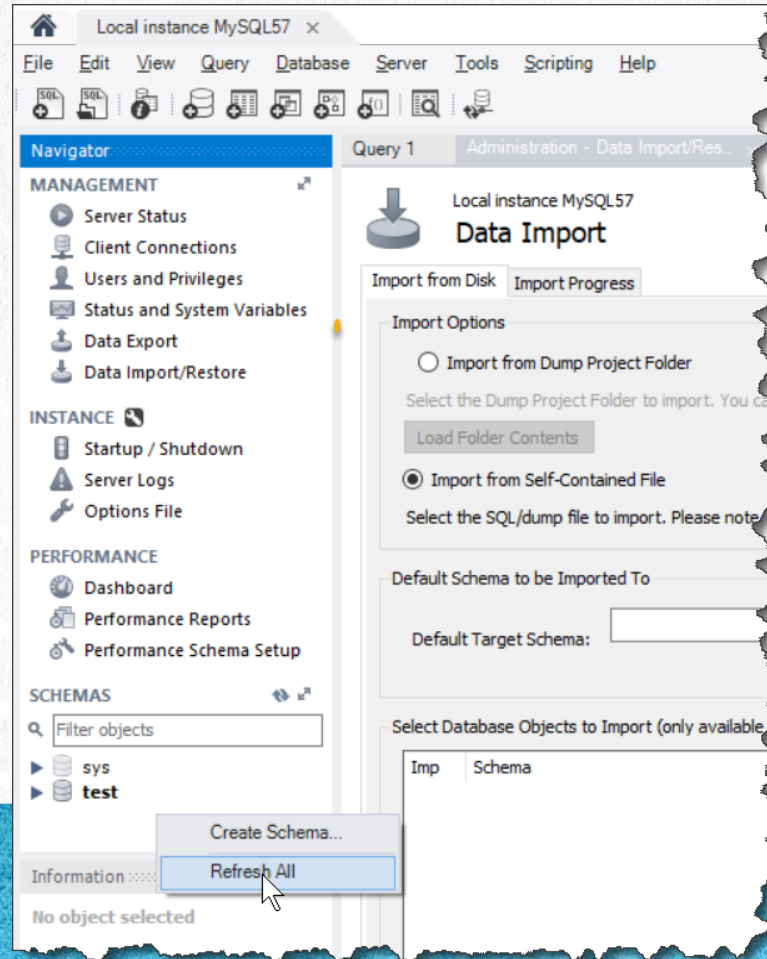
3. LOAD THE DATABASE SCRIPT

The screenshot displays the MySQL Workbench interface during a data import process. The main window is titled 'Administration - Data Import/Restore' and shows the 'Data Import' wizard for 'Local instance MySQL57'. The 'Import from Disk' tab is active, and a green progress bar indicates that the import is completed. The status message reads: 'Status: 1 of 1 imported.' The log window shows the following details:

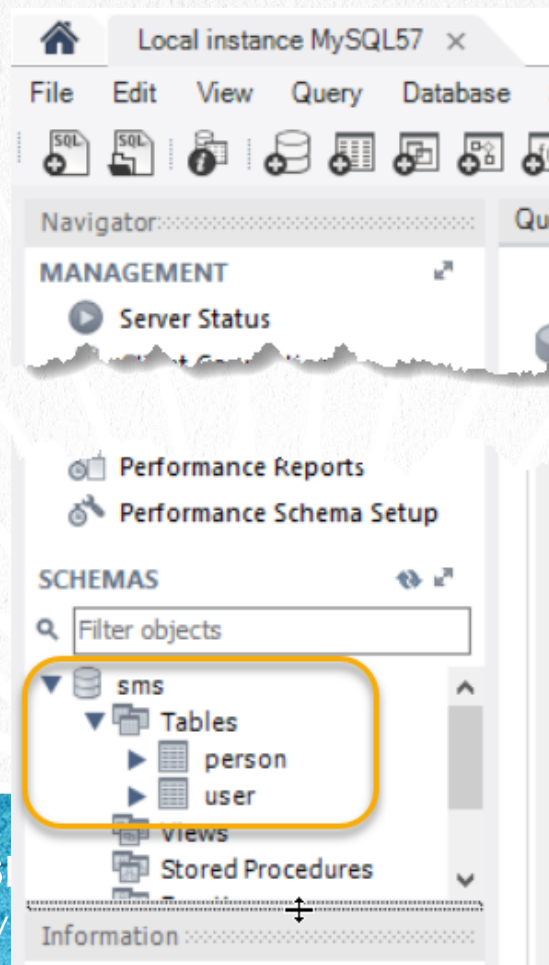
- 17:14:27 Restoring C:\Courses\Servlets\Lesson18\sms_database.sql
- Running: mysql.exe --defaults-file="c:\users\user\appdata\local\temp\tmpzx2ehc.cnf" --protocol=tcp
- 17:14:27 Import of C:\Courses\Servlets\Lesson18\sms_database.sql has finished

The log window also shows the file path: 'C:\Courses\Servlets\Lesson18\sms_database.sql'. At the bottom right, there are buttons for 'Stop' and 'Import Again'. The left sidebar contains navigation options under 'MANAGEMENT', 'INSTANCE', and 'PERFORMANCE'.

3. LOAD THE DATABASE SCRIPT



3. LOAD THE DATABASE SCRIPT



4. DOWNLOAD THE SMS PROJECT

Download the SMS Project :

<http://icursos.net/en/Servlets/Lesson19/SMS.zip>

Save the project some route of our hard disk, for example:

C:\Courses\Servlets\Lesson19

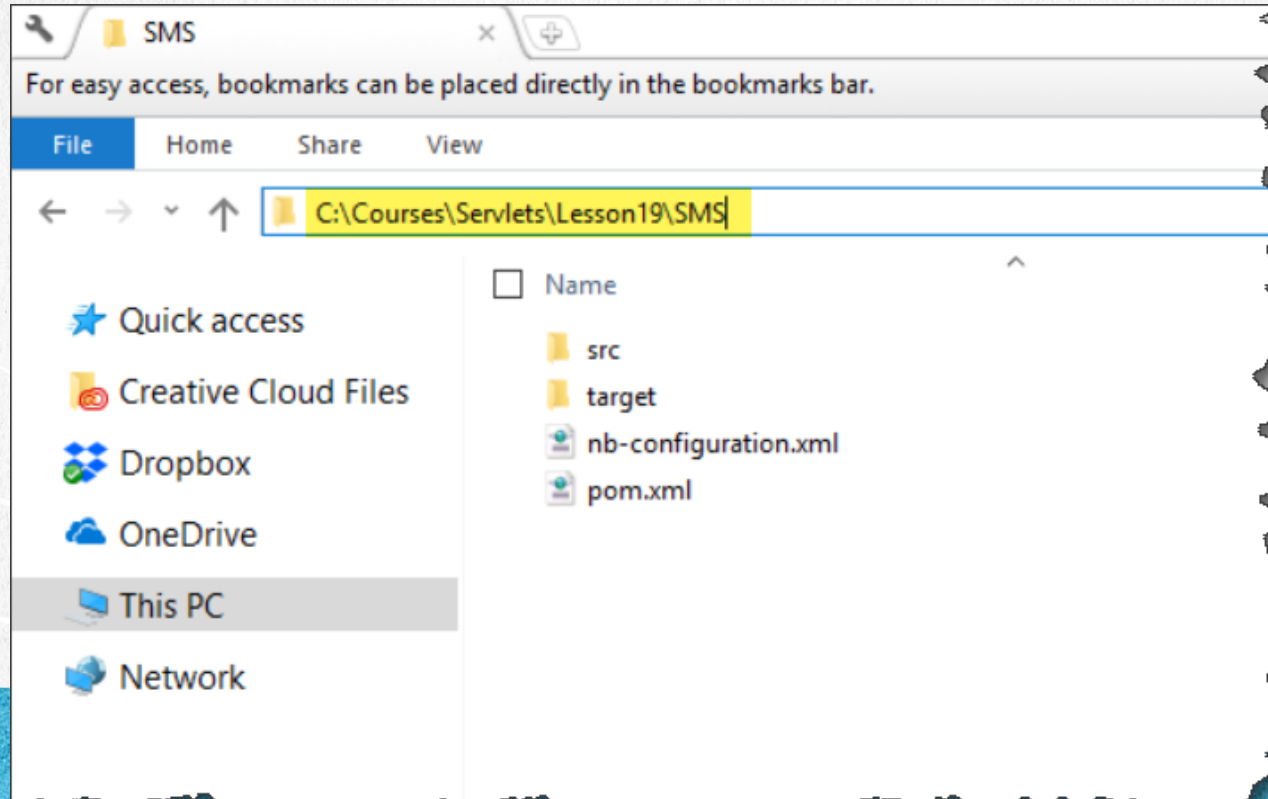


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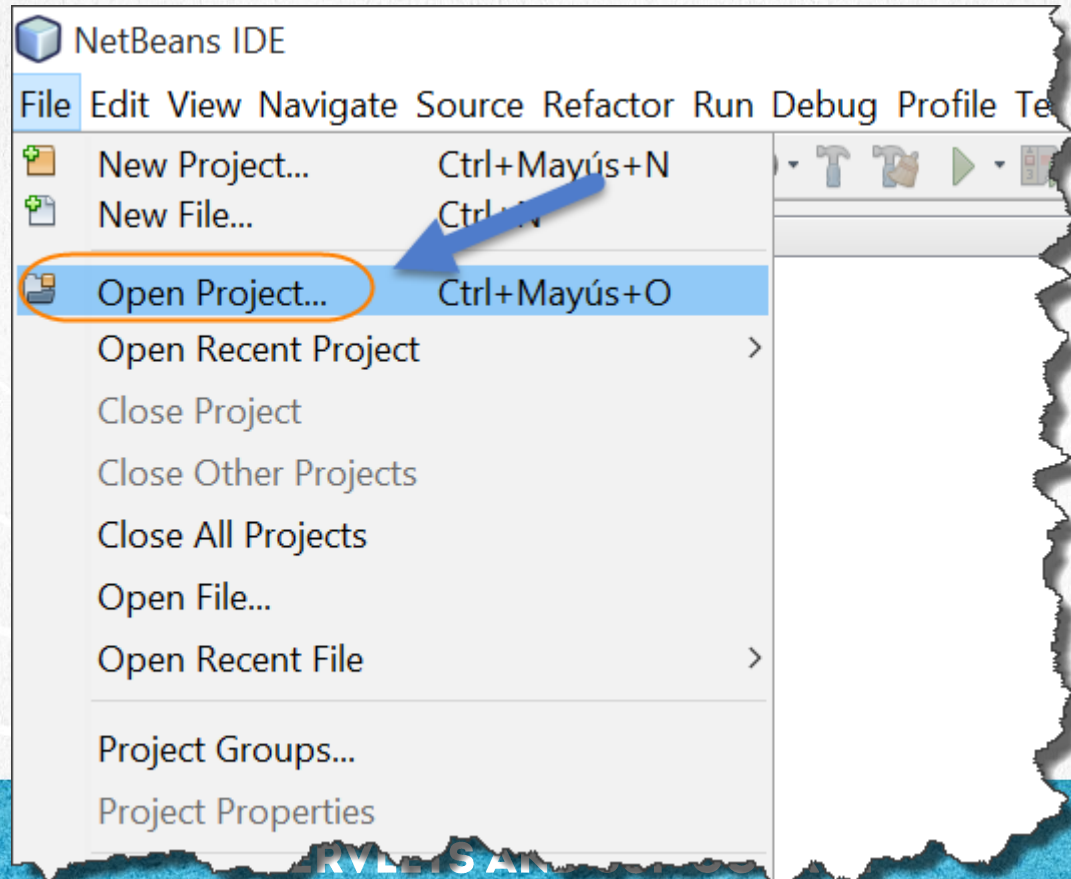
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4. DOWNLOAD SMS PROJECT

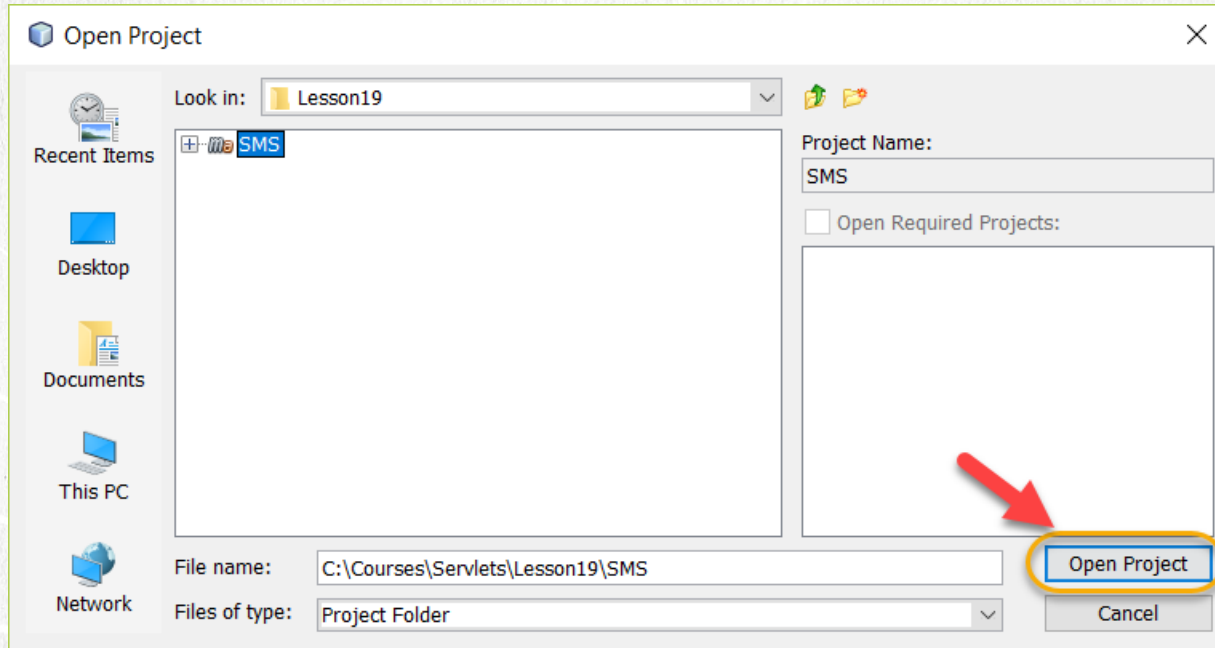
The content of the folder should be similar to the one that follows:



5. OPEN THE PROJECT IN NETBEANS



5. OPEN THE PROJECT IN NETBEANS

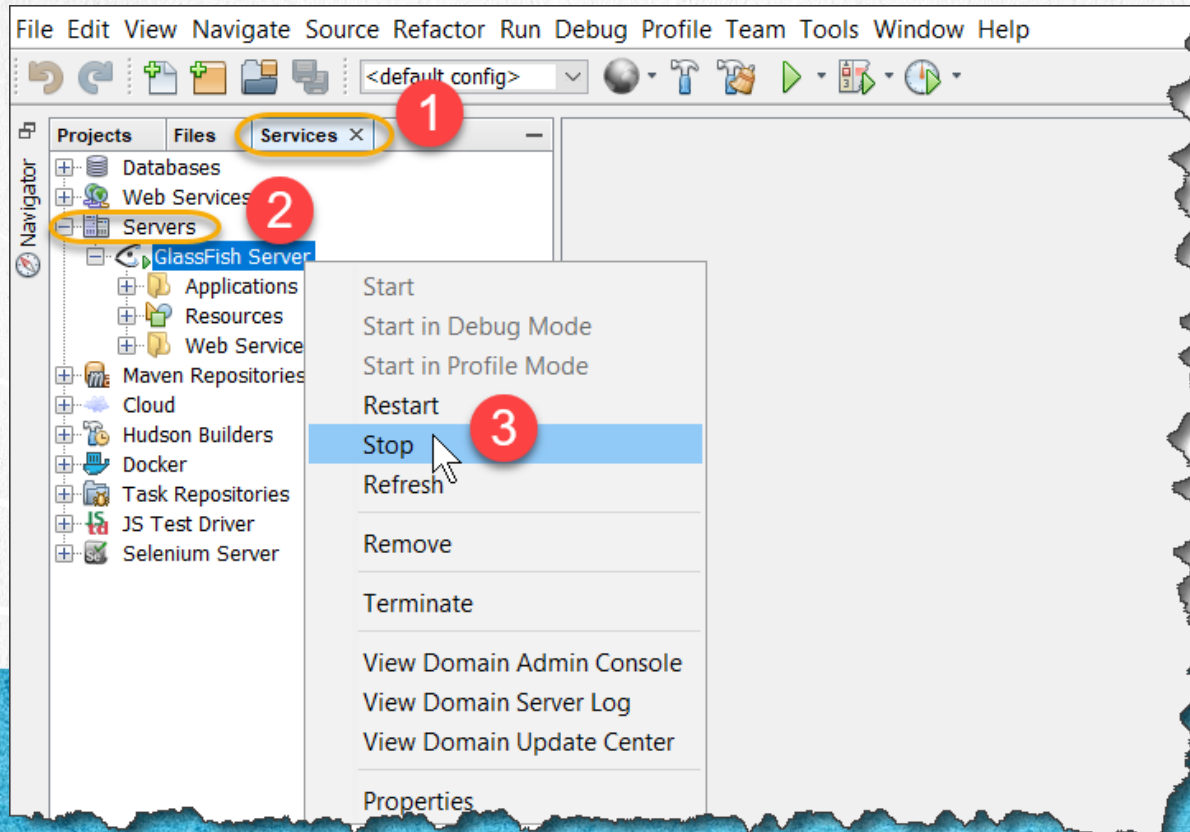


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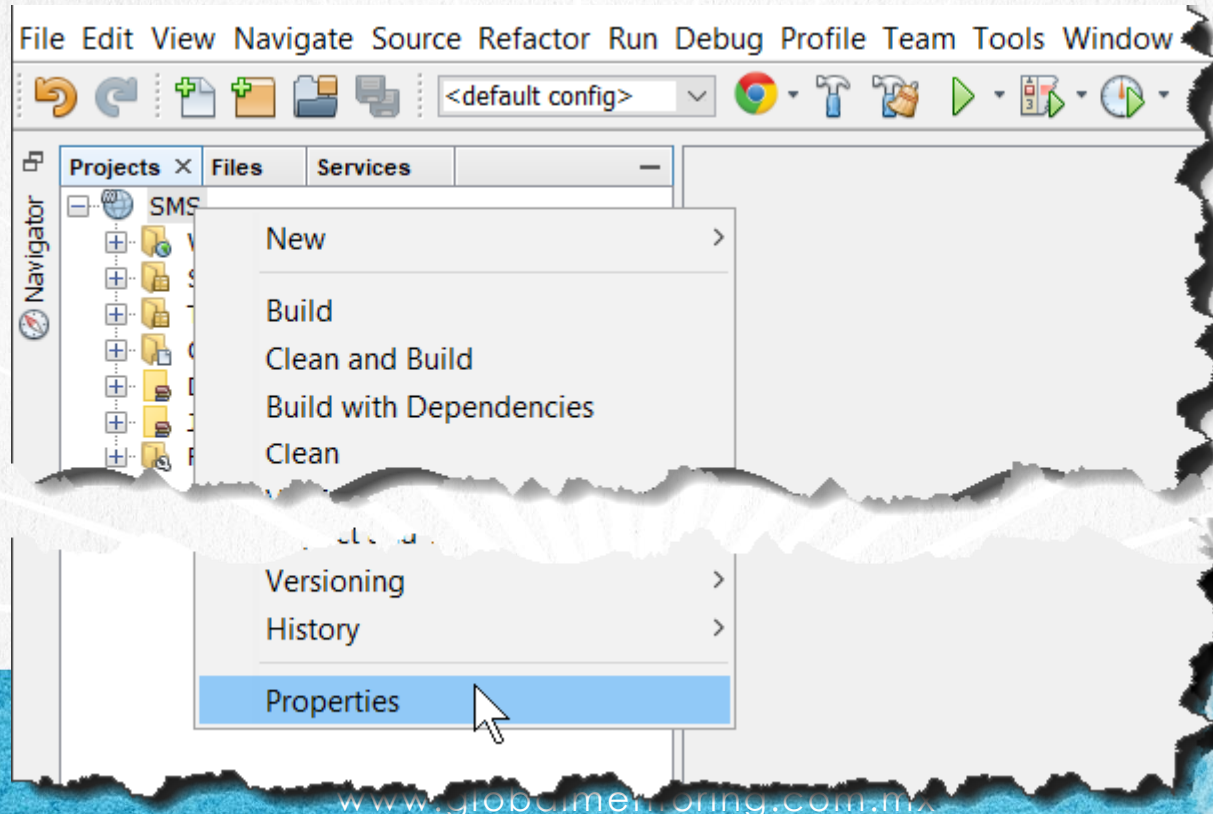
6. STOP GLASSFISH SERVER

- Stop the Glassfish Server just in case it is running:



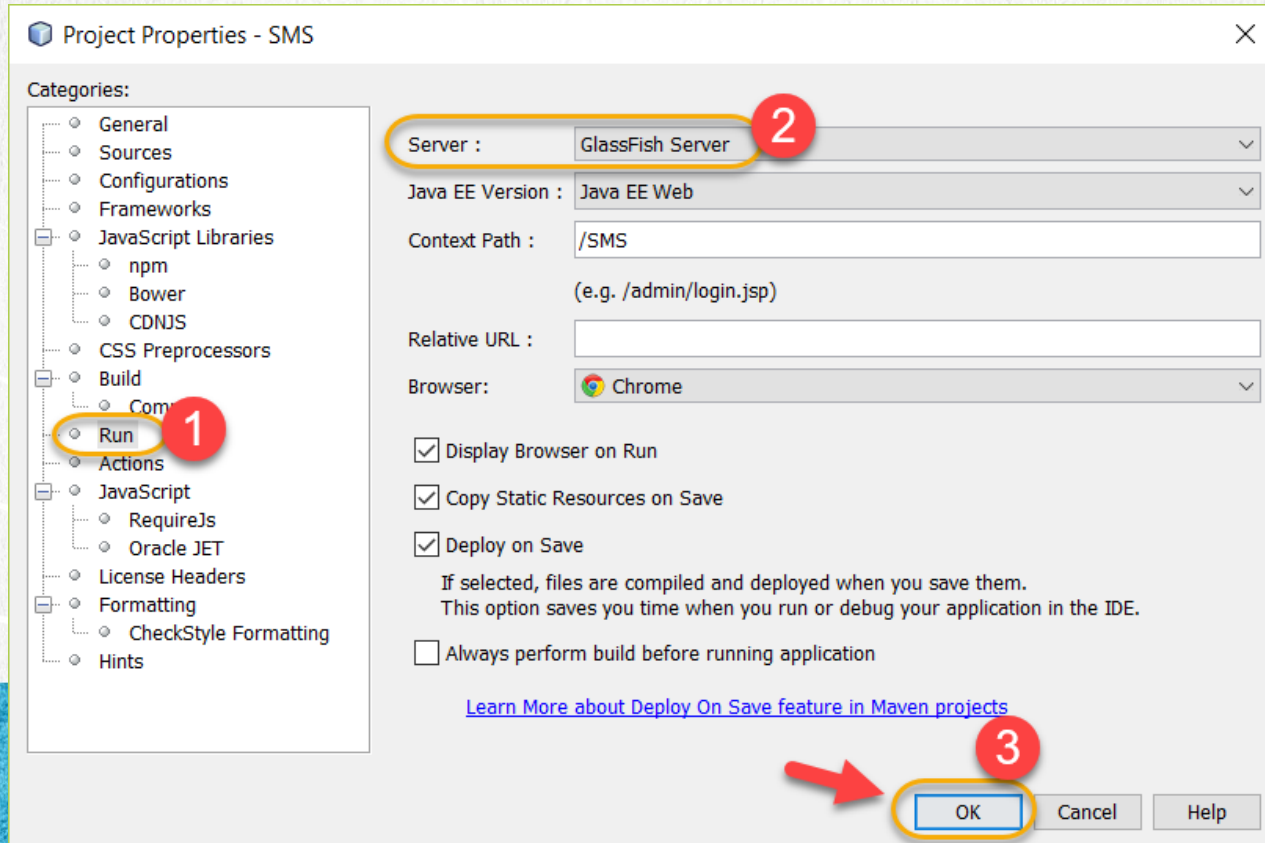
7. SELECT THE GLASSFISH SERVER

- We select the Glassfish server in case it is not selected:



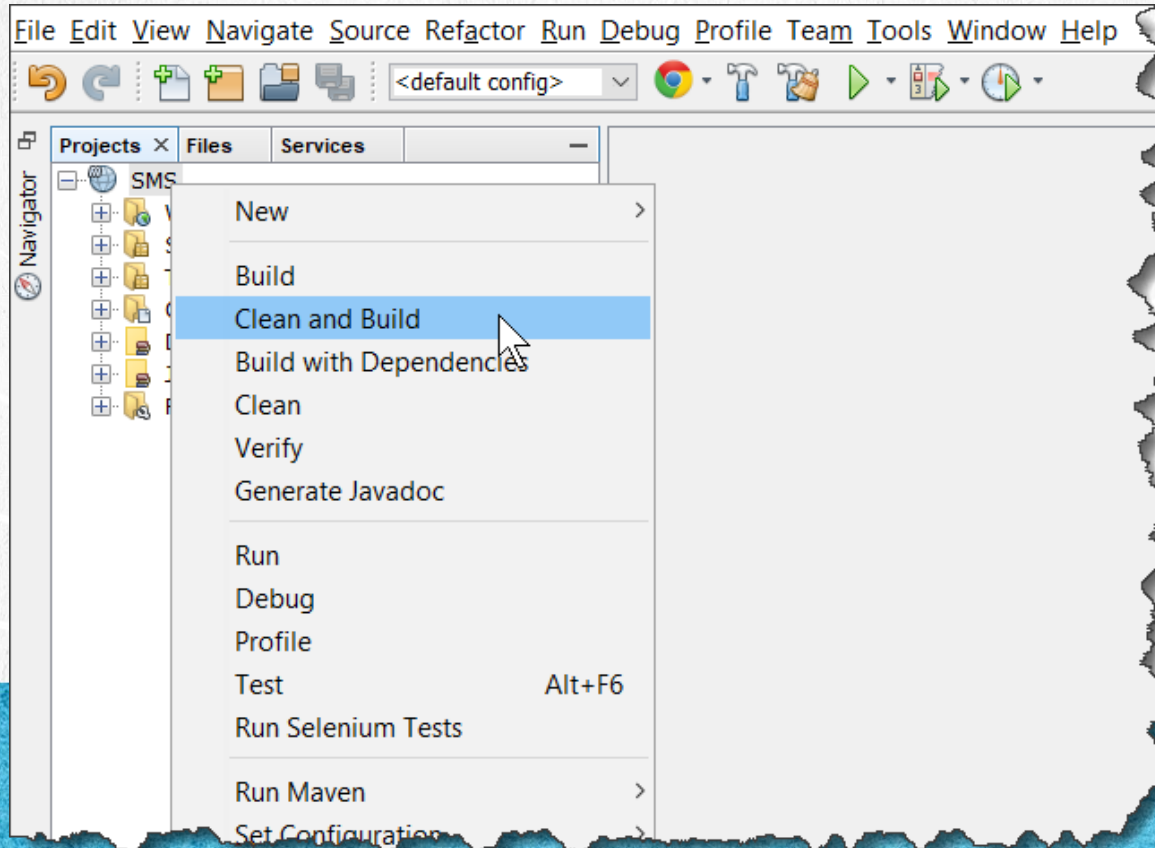
7. SELECT THE GLASSFISH SERVER

- We select the Glassfish server in case it is not selected:



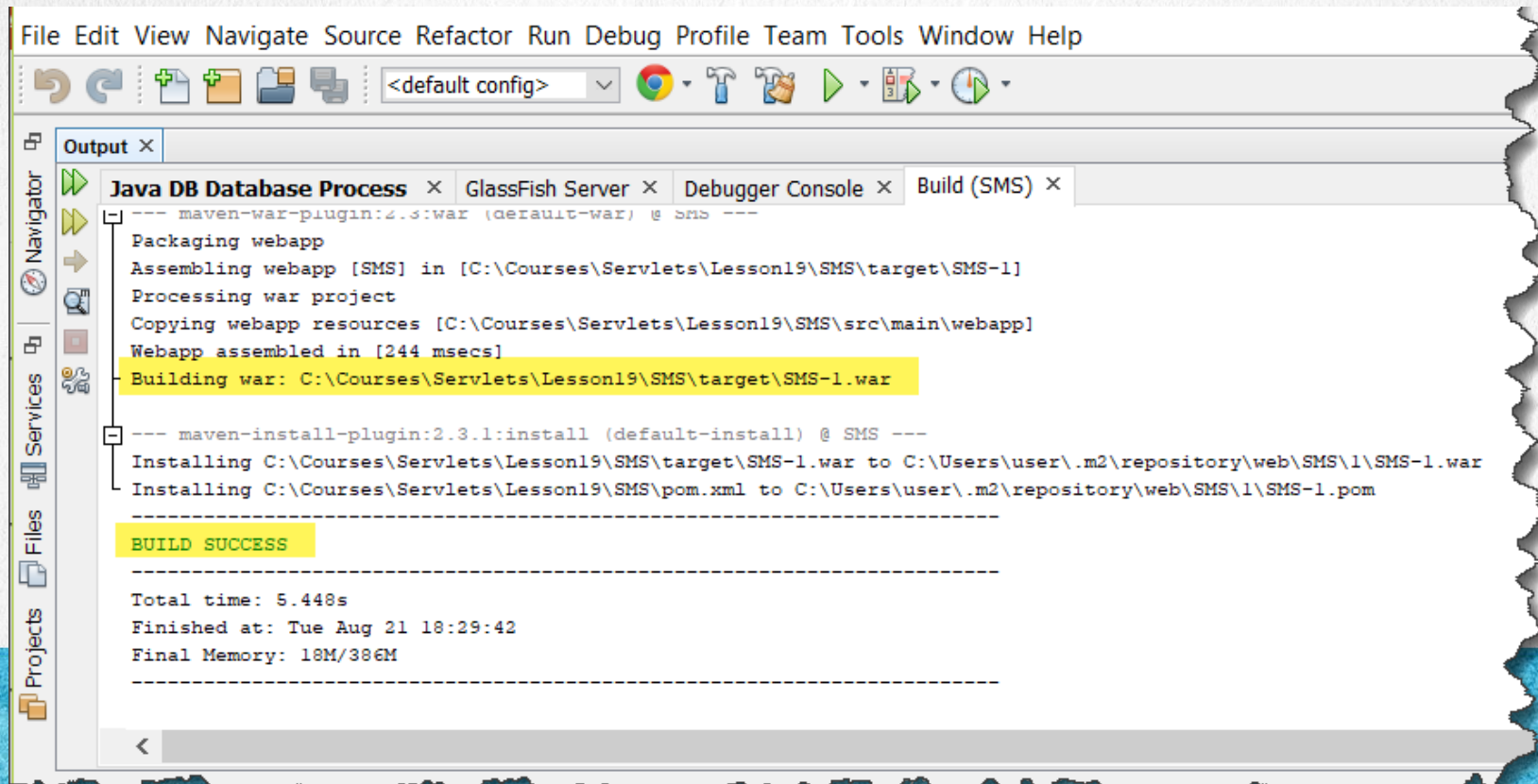
8. EXECUTE CLEAN & BUILD

- We do a clean & build to download the libraries described in the pom.xml file if necessary:



8. EXECUTE CLEAN & BUILD

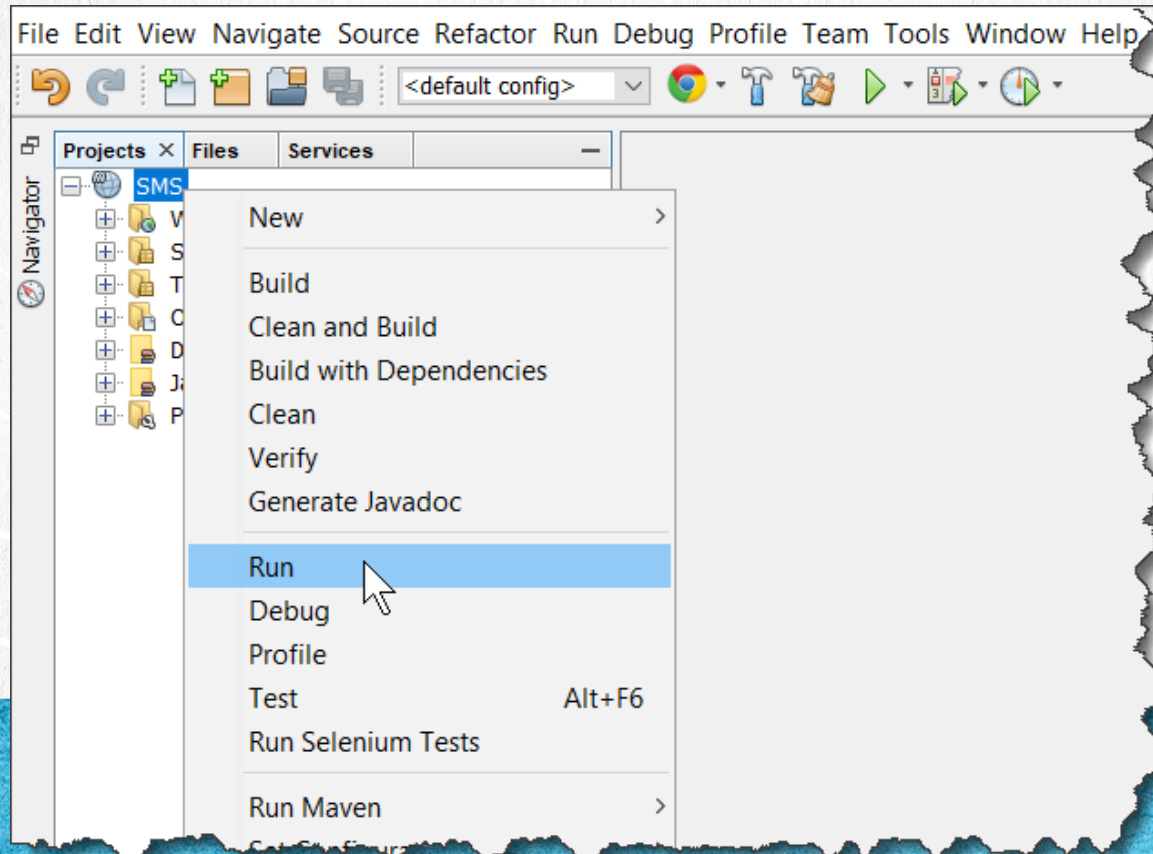
- This must be the result of the clean & build process:



```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config>
Output x
Java DB Database Process x GlassFish Server x Debugger Console x Build (SMS) x
--- maven-war-plugin:2.3:war (default-war) @ SMS ---
Packaging webapp
Assembling webapp [SMS] in [C:\Courses\Servlets\Lesson19\SMS\target\SMS-1]
Processing war project
Copying webapp resources [C:\Courses\Servlets\Lesson19\SMS\src\main\webapp]
Webapp assembled in [244 msecs]
Building war: C:\Courses\Servlets\Lesson19\SMS\target\SMS-1.war
--- maven-install-plugin:2.3.1:install (default-install) @ SMS ---
Installing C:\Courses\Servlets\Lesson19\SMS\target\SMS-1.war to C:\Users\user\.m2\repository\web\SMS\1\SMS-1.war
Installing C:\Courses\Servlets\Lesson19\SMS\pom.xml to C:\Users\user\.m2\repository\web\SMS\1\SMS-1.pom
BUILD SUCCESS
-----
Total time: 5.448s
Finished at: Tue Aug 21 18:29:42
Final Memory: 18M/386M
-----
```

9. EXECUTE THE PROJECT

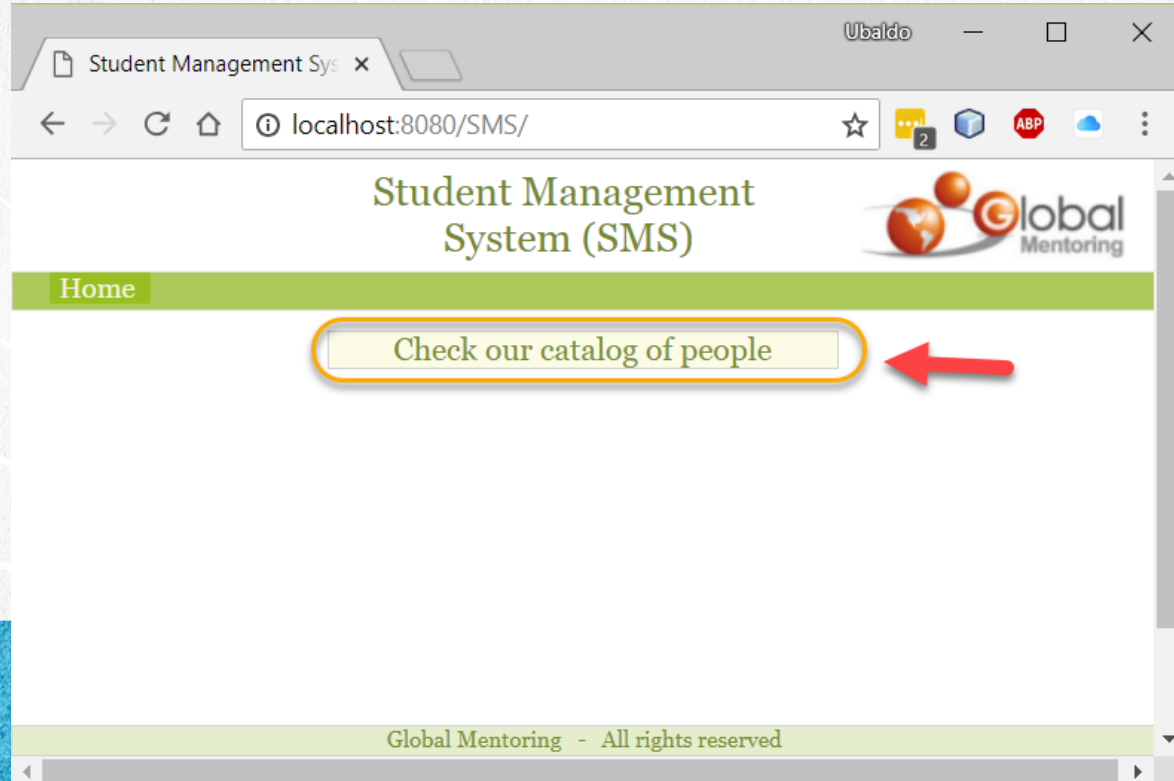
- Execute the project:



9. EXECUTE THE SMS APPLICATION

- We must see the application running:

<http://localhost:8080/SMS/>



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- We must see the application running:

<http://localhost:8080/SMS/>

Ubaldo

Login to the SMS System

← → ↻ 🏠 ⓘ J/SMS/ControllerServlet?action=listPeople 🔑 ☆ 📧 2 📦 ABP ☁ ⋮

Student Management System (SMS)

Global Mentoring

Home

Login to the SMS System

User: root

Password:

Send

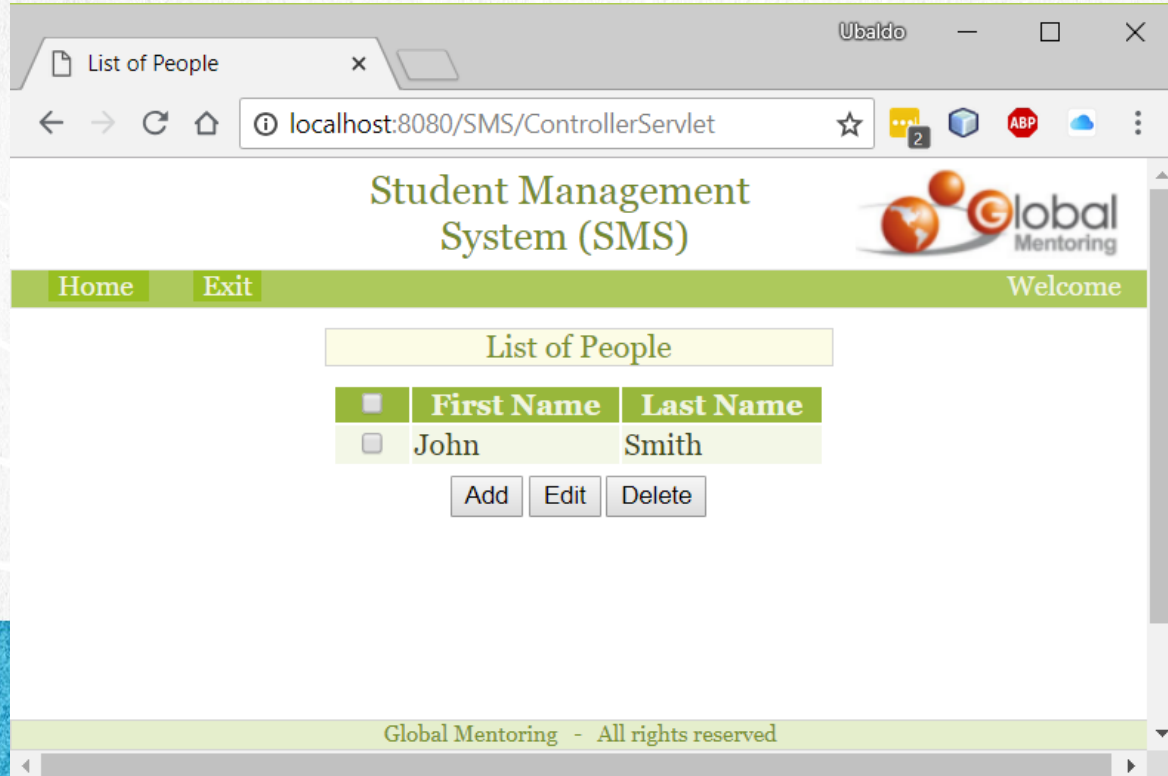
user: root
pass: admin

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9. EXECUTE THE SMS APPLICATION

- We must see the application running:

<http://localhost:8080/SMS/>



CONCLUSION OF THE SMS PROJECT

- With this we conclude the deployment of our SMS application.
- You can use this application as the basis for your own Java Web applications.
- You must study every file, and all the Architecture of this exercise, because we have applied all the concepts studied in this course and previous courses.
- You will do a final lab using this project. Let's see it.

ONLINE COURSE

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