Lab: Hibernate Configuration

This **tutorial** provides step-by-step guidelines to setup your Hibernate settings. You will learn how to configure your executable jar files. There will be a good explanation on how to run **java jar** programs powered by **CGI scripts** in order to properly **persist** your objects.

Dependencies

You will need only two dependencies for to run **hibernate**. The first one is hibernate itself. Use version **5.x.x** The second dependency should be **MySQL connector**. Again use version above **5**. See the example below:

Persistence

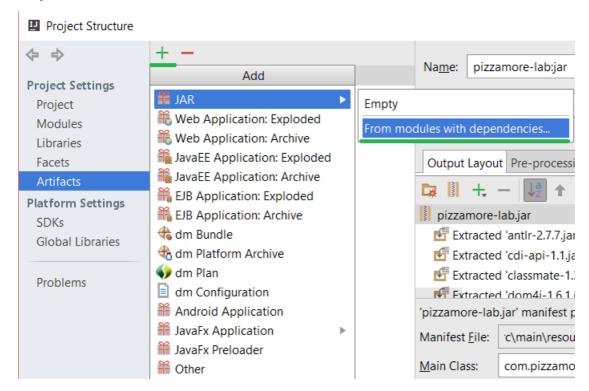
Hibernate requires **persistence.xml** file. Is should be located in **resources/META-INF/.** You have to configure your **database credentials**. Set a proper name of the **persistence unit**.

```
persistence.xml
<persistence xmlns="http://java.sun.com/xml/ns/persistence"</pre>
           xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
           xsi:schemaLocation="http://java.sun.com/xml/ns/persistence
http://java.sun.com/xml/ns/persistence/persistence_2_0.xsd"
           version="2.0">
   <persistence-unit name="unit">
       cproperties>
          <property name="javax.persistence.jdbc.driver" value="com.mysql.jdbc.Driver"/>
          <property name="javax.persistence.jdbc.url" value="jdbc:mysql://localhost/database_name?</pre>
createDatabaseIfNotExist=true"/>
          cproperty name="hibernate.hbm2ddl.auto" value="update"/>
       </properties>
   </persistence-unit>
</persistence>
```

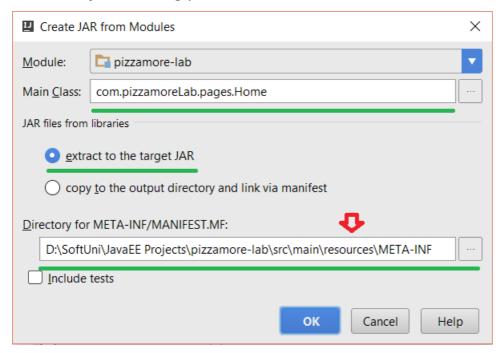
Executable Jar

The last thing required to run **Hibernate** is to create an **executable jar file**. Go to **File**>**Project Structure**->**Artifacts**.

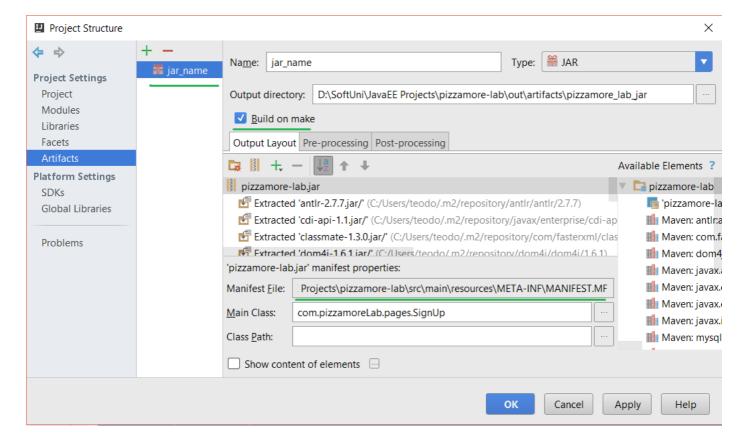
Create a new artifact that would be a jar file. Select +->JAR->From modules with dependencies.



Create a **manifest file**. It should be located in **resources/META-INF**. Choose the class that should be your starting point.



Include all the hibernate jars **extracted**. Make **build on make** active.



CGI Script

The last step is to create a script that would call your jar file.

#!C:\cygwin64\bin\bash.exe
chcp 65001
java -Dcgi.request_method=\$REQUEST_METHOD -Dcgi.query_string=\$QUERY_STRING -jar Home.jar \$HTTP_COOKIE