JAVA J2EE JDBC SETUP

1. Download Eclipse IDE for Java EE Developers and extract it to a proper directory in your machine. (Recommended : Eclipse Photon R).

http://www.eclipse.org/downloads/packages/release/photon/r/eclipse-ide-java-ee-developers

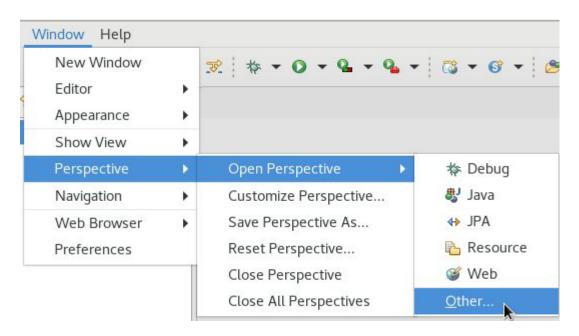
2. Download and Extract Apache Tomcat-7 Server to a proper directory in your machine https://tomcat.apache.org/download-70.cgi

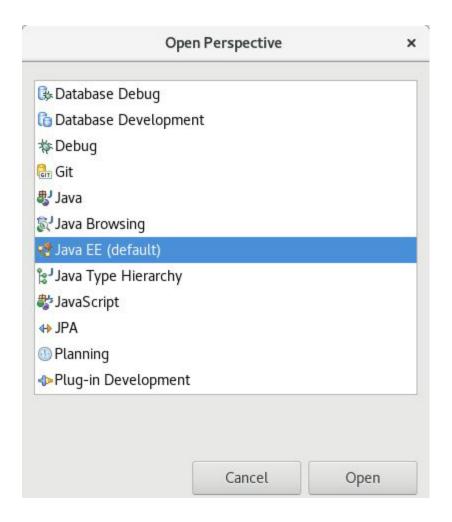
3. Download the Mysgl JDBC Driver.

Go to http://dev.mysql.com/downloads/connector/j and within the dropdown select "Platform Independent" then it will show you the options to download tar.gz file or zip file.

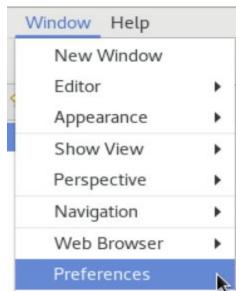
Download zip file and extract it, within that you will find mysql-connector-XXX.jar file.

- 4. Launch your Eclipse IDE. Make sure that your Eclipse is set to default Java EE Perspective. From the menu bar, Window -> Perspective -> Open Perspective -> Other -> Java EE (default).
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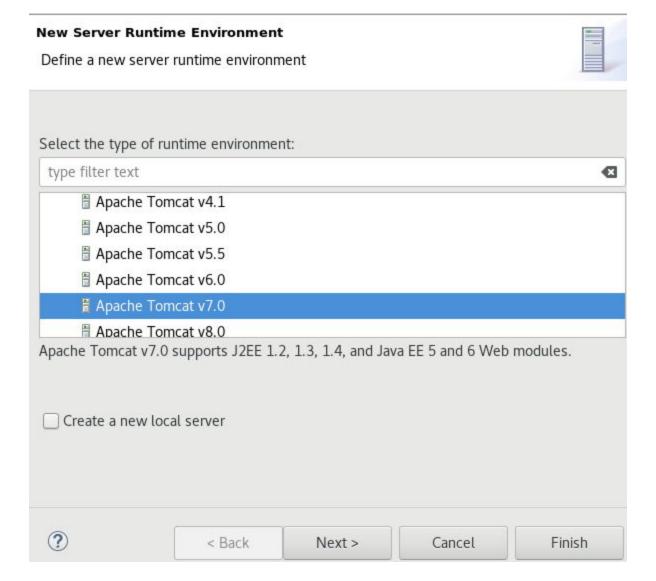




7. Add a Server to your Eclipse IDE. From menu bar, Window -> Preferences -> Server -> Runtime Environments.



Click on the Add button to add a new Apache Tomcat Server to your Development Environment.

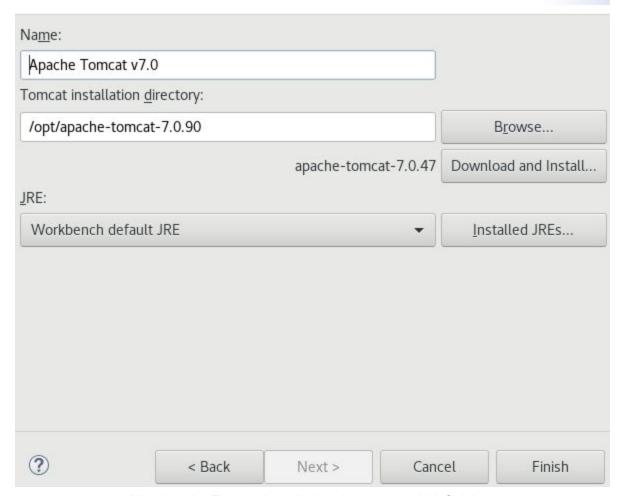


Select Apache Tomcat v7.0 and Click next

Tomcat Server

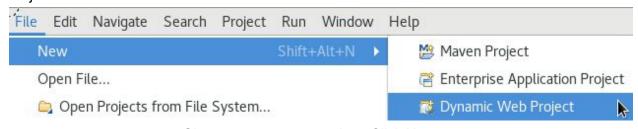
Specify the installation directory



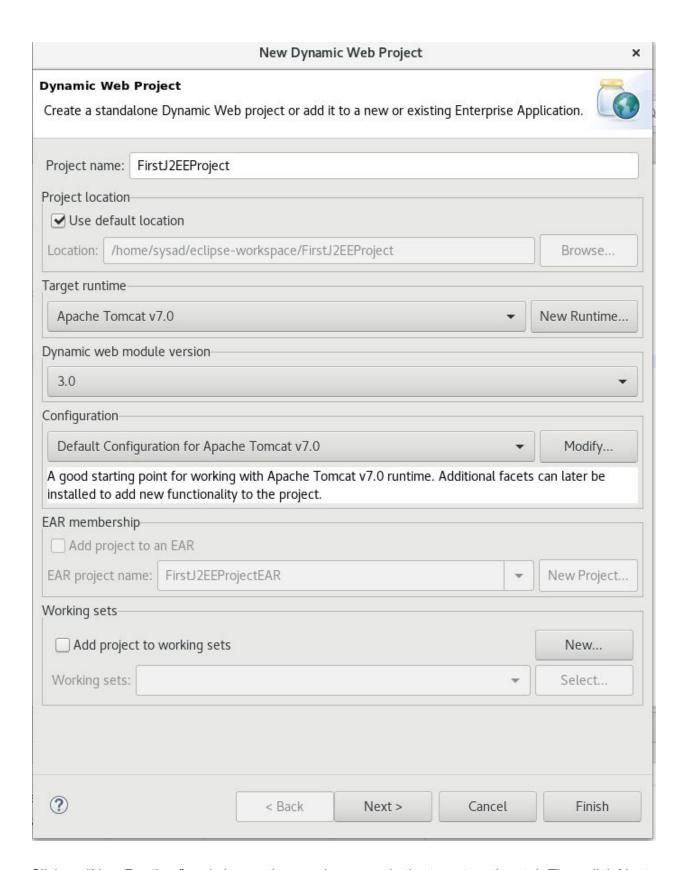


Mention the Tomcat Installation directory and hit finish.

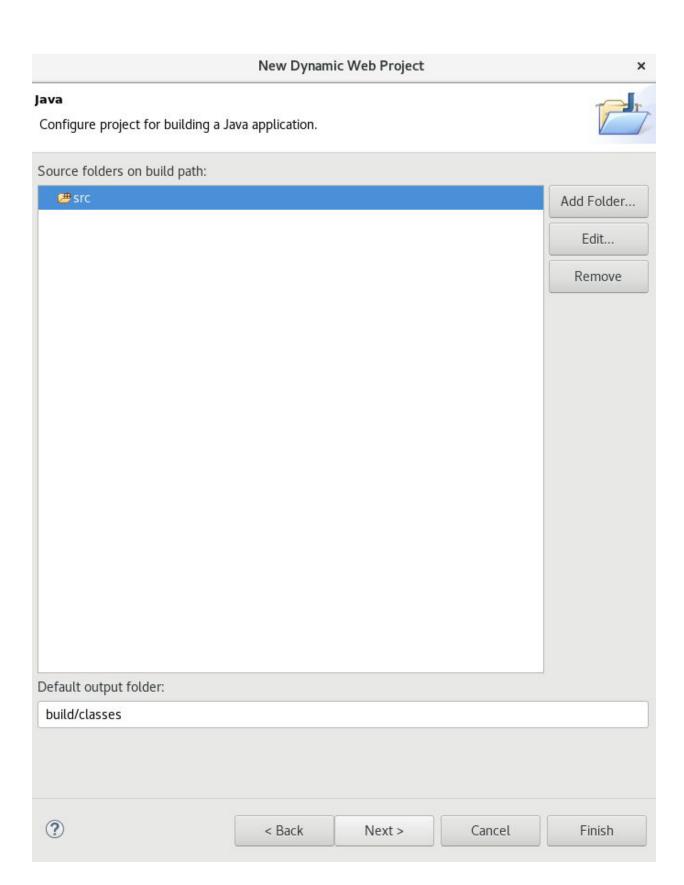
8. Create a new Dynamic Web Project, From the menu bar, File -> New -> Dynamic Web Project.



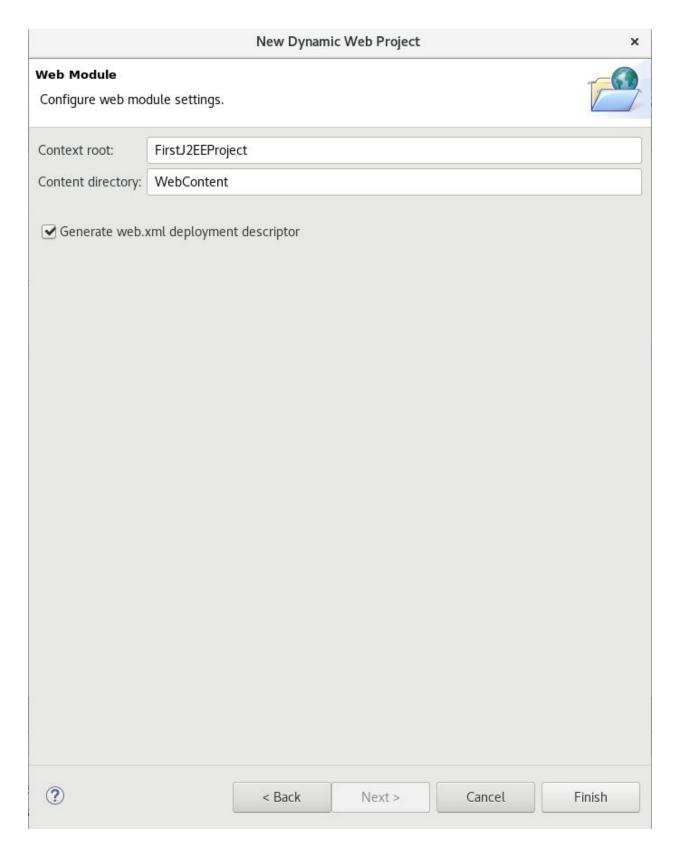
Give a name to your project. Click Next.



Click on "New Runtime" and choose the apache server in the target runtime tab. Then click Next

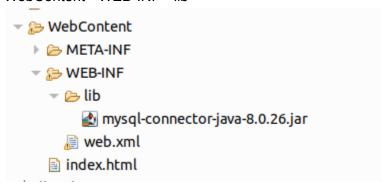


Select src as a source folder on build path and click Next

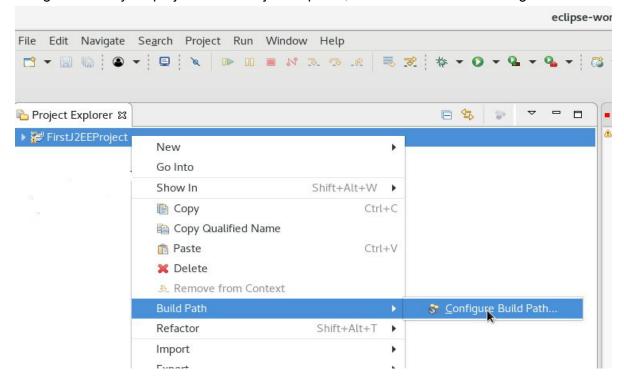


Don't forget to check-mark the Generate web.xml deployment descriptor. Then click finish

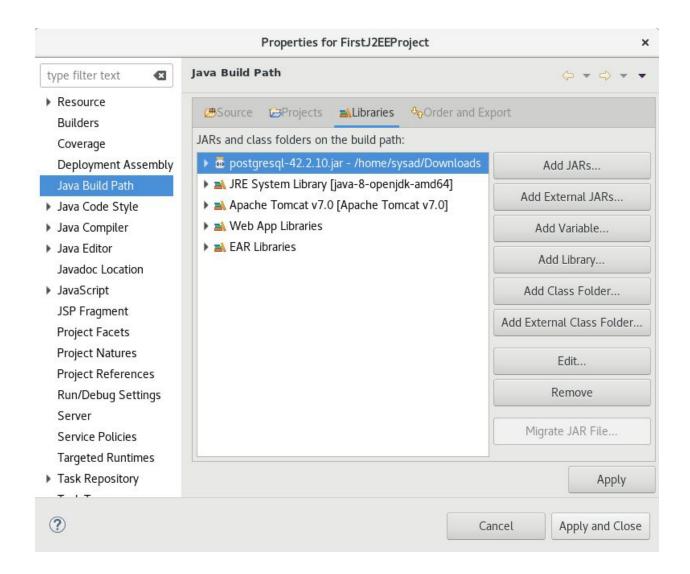
7. Copy and paste the downloaded Mysql java jdbc driver jar file in lib folder .This will be in WebContent->WEB-INF->lib



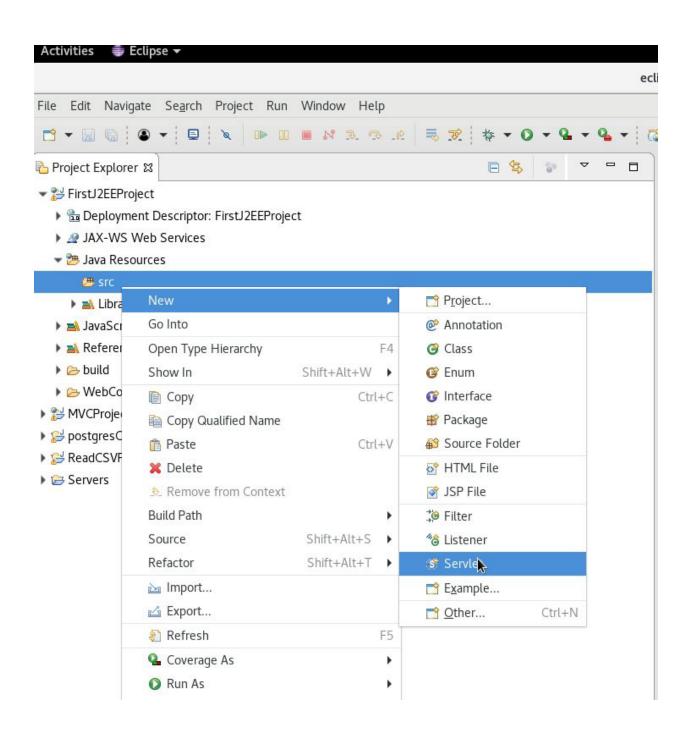
8. Right click on your project in the Project Explorer, then Build Path and Configure Build Path.



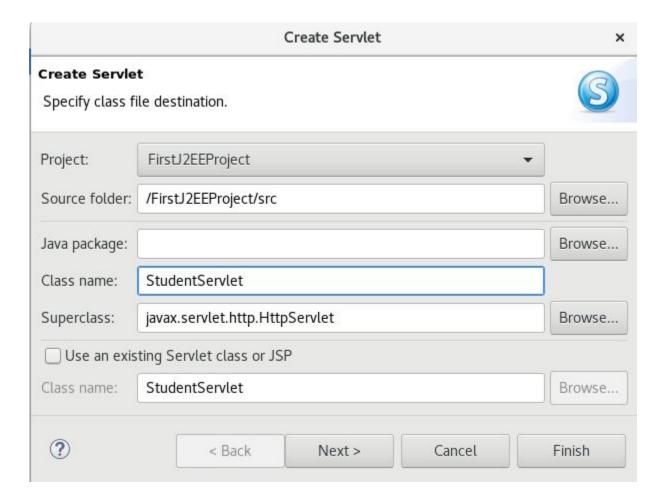
9. Goto the libraries tab --> Add external Jar --> Mysql.jar file. Click apply and close.

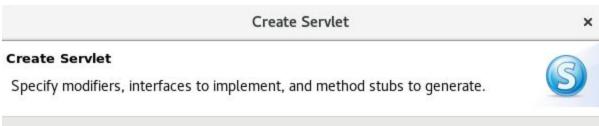


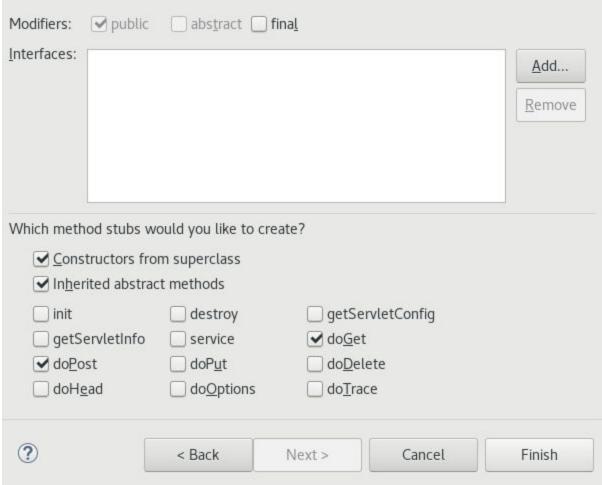
10. Right click on the project folder and then expand Java Resources. Then right click on src->New->Servlet.



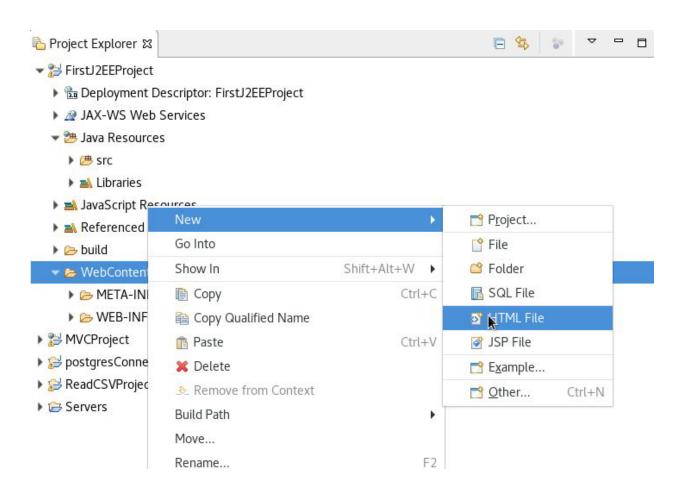
11. Give the servlet name as StudentServlet. Then click Next and Finish.

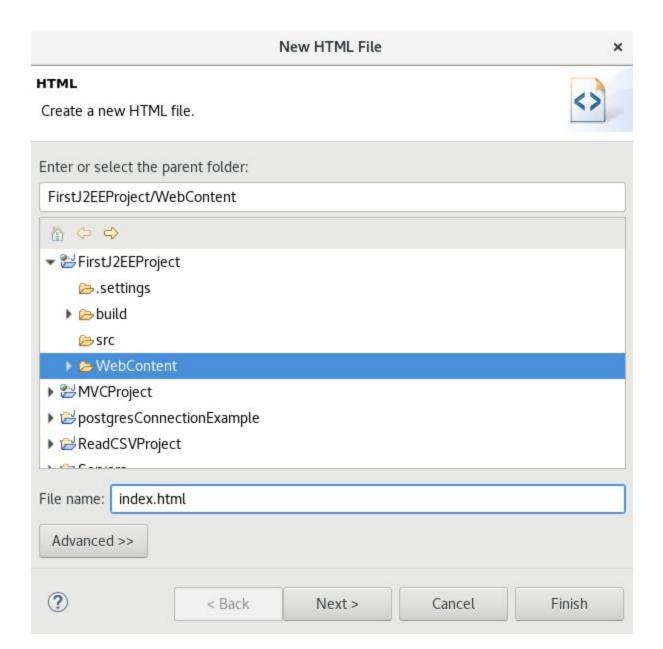






- 11. Copy-paste the code shared as StudentServlet.java.(First remove everything from servlet file,then do copy-paste)
- 12. Then Right click on WebContent folder -> New -> HTML file. Give the file name as index.html. Click Finish.



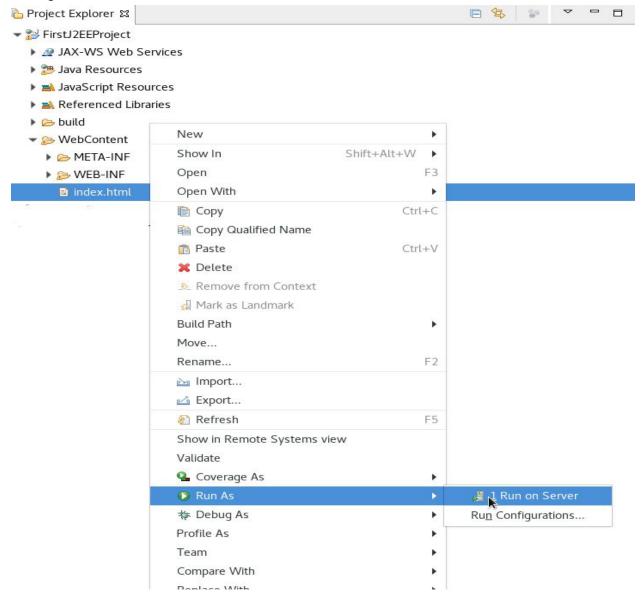


- 13. Copy-paste the code shared as index.html.(First remove everything from index.html file,then do copy paste)
- 14. Now go to web.xml present in WebContent->WEB INF.
 Copy -paste the below code. This is known as servlet mapping.
 This file can be opened as a text editor by right clicking and open with option.

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app>
<welcome-file-list>
<welcome-file>index.html</welcome-file>
</welcome-file-list>
```

```
<servlet>
<servlet-name>StudentServlet</servlet-name>
<servlet-class>StudentServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>StudentServlet</servlet-name>
<url-pattern>/StudentServlet</url-pattern>
</servlet-mapping>
</web-app>
```

15. Right click on index.html -> Run As -> Run On Server.Then click Finish.



16. You will get the index.html running on the browser.

\leftarrow	\rightarrow	C	① localhost:8080/FirstJ2EEProject/index.html		
Enter	Stud	dent Id:		Submit	

17. Enter the id as 30772.

You should see the output as :



Student id is 30772 Student name is Inoue

==== 1 rows found =====