CS313: Lab Assignment 6 Part A

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1 Extract and import the given project

Using the given handout, we extracted and imported the project. Screenshot of the same is below:

```
eclipse-workspace-EE - J2EEProject/src/StudentServlet.java - Eclipse IDE
 File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access
                                                                                                                                        ## StudentServletjava ## Binputjsp ## Resultjsp ## web.xml

1 = Import java io. IOException;
2 Import java io. IOException;
3 Import java io. Servlet. RequestDispatcher;
4 Import java io. Servlet. ServletException;
4 Import java io. Servlet. http. HttpServlet;
5 Import java io. Servlet. http. HttpServlet;
6 Import java io. Servlet. http. HttpServletRequest;
7 Import java io. Servlet. http. HttpServletRequest;
9 Import java io. Servlet. http. HttpServletRequest;
10 Import java io. Servlet. http. HttpServletRequest;
11 | Ioent java io. Servlet implementation class StudentServlet
14 | Ioent java io. Servlet implementation class StudentServlet
15 | Servlet implementation class StudentServlet
16 | Servlet implementation io. Ioent java io. Servlet io. Servle
                                                                 🕒 😘 😺 💆 🖪 🙆 StudentServlet.java 🖾 🗟 Input.jsp 🔻 Result.jsp 🔻 web.xml 🕒 Student Addition Form
 Project Explorer ≅
  > 3 AdvisorDept

→ Ø, StudentServlet

  e<sup>c</sup> StudentServlet()
        > 🛅 Deployment Descriptor: J2EEProject
        > @ JAX-WS Web Services
                                                                                                                                                                                                                                                                                                                                                                                                                                   o_ doPost(HttpServletRequest, HttpServ

→ 

B Java Resources

→ Ø > src

→ Mathematical Libraries

                    > MApache Tomcat v8.0 [Apache Tomcat v8.0]
> MAPache Tomcat v8.0 [Apache Tomcat v8.0]
> MAPACHE System Library [jre1.8.0_341]
                                                                                                                                            15 @WebServlet("/StudentServlet")
16 public class StudentServlet extends HttpServlet {
17 private static final long sertalVersionUID = 11;
18
                     > M Referenced Libraries
         > MayaScript Resources
        > Neferenced Libraries
> > build
                                                                                                                                                               public StudentServlet() {
                                                                                                                                                                       super();
// TODO Auto-generated constructor stub

→ ②→ > WebContent

              > 😝 > META-INF

• 😝 > WEB-INF
                                                                                                                                                             protected void doPost(HttpServletRequest request, HttpServletResponse response) 1

∨ Ø > lib

                           mysql-connector-java-8.0.30.jar
web.xml
                  ☐ Input.jsp
☐ Result.jsp

    Markers □ Properties 
    Servers □ Properties Servers □ Properties □ Console

                                                                                                                                                                                                                                                                                                                                                                                                                                                             □ $ 0 ₽ ■ ₽ ▼ □ □

➢ NewProiect

                                                                                                                                               a Tomcat v7.0 Server at localhost [Stopped, Synchronized]
 □ Input.isp - J2EEProject/WebContent
```

Figure 1: Project extracted and imported

2 Display the success message

The project was run, with the following input and output.



Figure 2: Input to the form

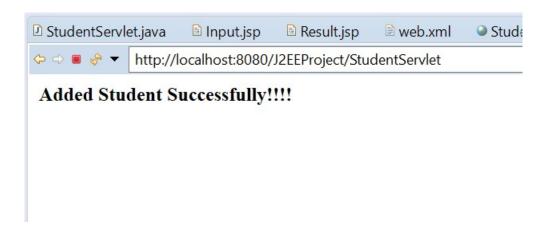


Figure 3: Output: Success!

3 Execution flow

After data is entered as input to the form in <code>Input.jsp</code> and submitted, it is passed as input to the servlet file <code>StudentServlet.java</code>. Then, this program interacts with the database (Java DataBase Connectivity), and database calls are made for insertion. On successful insertion, a success message is displayed, as shown in the figure in the previous part. To verify if the database table was actually updated, we can run an SQL query:

```
mysql> SELECT * FROM student WHERE dept_name =
                                                  'Elec. Eng.';
  ID
                                    tot_cred
                      dept_name
          name
  20012
          Bharath
                      Elec. Eng.
                                         240
                      Elec. Eng.
  76653
          Aoi
                                          60
  98765
          Bourikas
                     Elec. Eng.
                                          98
3 rows in set (0.00 sec)
mysql>
```

Figure 4: Updated student database

(Note: Part B report is located in its respective folder.)