

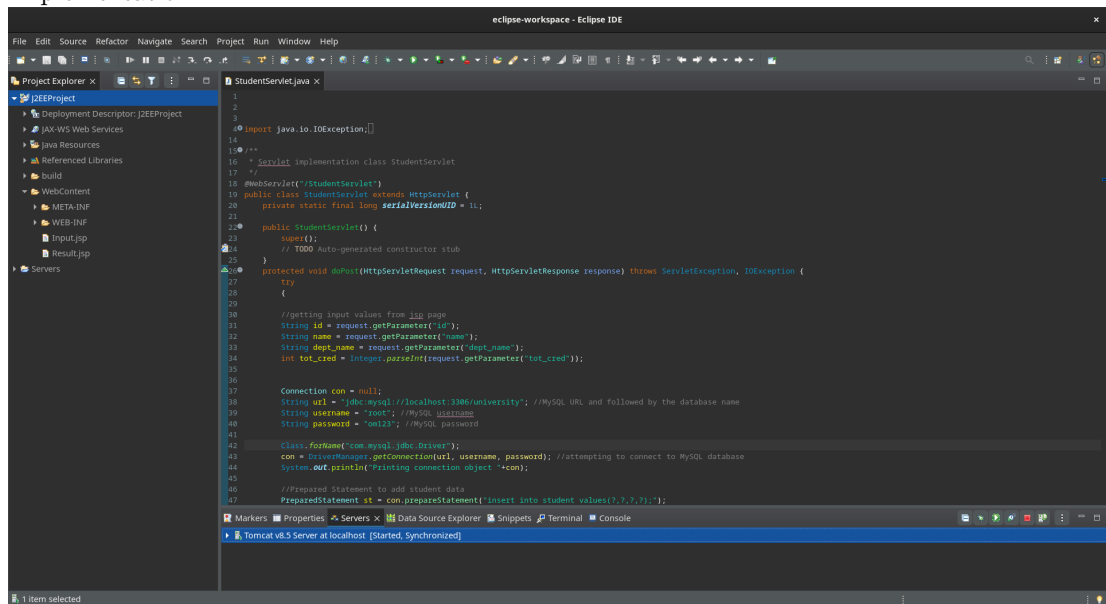
# CS 313: Assignment 6

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## Part A

Implementation:



```
1
2
3
4 import java.io.IOException;
5
6 /**
7  * Servlet implementation class StudentServlet
8  */
9
10 @WebServlet("/StudentServlet")
11 public class StudentServlet extends HttpServlet {
12     private static final long serialVersionUID = 1L;
13
14     public StudentServlet() {
15         // TODO Auto-generated constructor stub
16     }
17
18     protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
19         try {
20             //getting input values from jsp page
21             String id = request.getParameter("id");
22             String name = request.getParameter("name");
23             String dept_name = request.getParameter("dept_name");
24             int tot_cred = Integer.parseInt(request.getParameter("tot_cred"));
25
26             Connection con = null;
27             String url = "jdbc:mysql://localhost:3306/university"; //MySQL URL and followed by the database name
28             String username = "root"; //MySQL username
29             String password = "root"; //MySQL password
30
31             Class.forName("com.mysql.jdbc.Driver");
32             con = DriverManager.getConnection(url, username, password); //attempting to connect to MySQL database
33             System.out.println("Printing connection object "+con);
34
35             //Prepared Statement to add student data
36             PreparedStatement st = con.prepareStatement("insert into student values(?, ?, ?, ?)");
37
38         } catch (Exception e) {
39             e.printStackTrace();
40         }
41     }
42 }
```

JSP Interface:

## Student Details

Student Id	<input type="text" value="10036"/>
Student Name	<input type="text" value="Om"/>
Student Department	<input type="text" value="Comp. Sci."/>
Student Total Credits	<input type="text" value="33"/>
<input type="button" value="Submit"/>	

Result Page:

**Added Student Successfully!!!!**

## Part B

### Task 1

```
mysql> source Part B/create.sql
Query OK, 1 row affected (0.04 sec)

Database changed
Query OK, 0 rows affected (0.02 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.01 sec)

mysql> show tables;
+-----+
| Tables_in_library |
+-----+
| book               |
| issue              |
| student            |
+-----+
3 rows in set (0.01 sec)
```

## Task 2

```
mysql> source Part B/insert.sql
Database changed
Query OK, 1 row affected (0.04 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.01 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from book;
+-----+-----+-----+-----+
| book_id | title                                | category | author                |
+-----+-----+-----+-----+
| 1       | The Alchemist                       | Fiction  | Paulo Coelho          |
| 2       | The Monk Who Sold His Ferrari      | Self Help | Robin Sharma          |
| 3       | The Secret                         | Self Help | Rhonda Byrne          |
| 4       | Java The Complete Reference        | Computer | Herbert Schildt        |
| 5       | C++ Complete Reference             | Computer | Herbert Schildt        |
| 6       | The C Programming Language         | Computer | Brian W. Kernighan    |
+-----+-----+-----+-----+
6 rows in set (0.01 sec)
```

```
mysql> select * from student;
```

student_id	name	dept_name	year	semester
1	John	CSE	20	5
2	Mary	ME	19	7
3	Peter	CSE	22	1
4	Bob	EE	19	7
5	Alice	EP	21	3
6	Zoe	MnC	20	5

```
6 rows in set (0.00 sec)
```

```
mysql> select * from issue;
```

student_id	book_id	issue_date	return_date
1	2	2021-03-05	2021-03-23
1	3	2021-01-05	2021-01-15
2	4	2021-09-19	2021-10-24
2	5	2019-03-19	2019-03-24
3	1	2022-07-14	2022-07-28
3	2	2022-07-01	2022-07-13
4	1	2020-09-05	2020-09-30
4	3	2020-09-01	2020-09-15
5	4	2021-10-27	2021-11-05
6	6	2021-12-23	2022-01-15

```
10 rows in set (0.00 sec)
```

### Task 3

a.

## Library

Add a Book

Issue a Book

b.

## Book Details

ID	<input type="text" value="123"/>
Title	<input type="text" value="Deep Work"/>
Category	<input type="text" value="Self Help"/>
Author	<input type="text" value="Cal Newport"/>
<input type="button" value="Submit"/>	

**Book added successfully!**

c.

## Issue Details

Student ID	<input type="text" value="1"/>
Book ID	<input type="text" value="123"/>
Issue Date	<input type="text" value="16 / 10 / 2022"/> 
<input type="button" value="Submit"/>	

**Book issued successfully!**

[Issue another book](#)

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