

CS 313 Assignment 6

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1 PartA Q1)

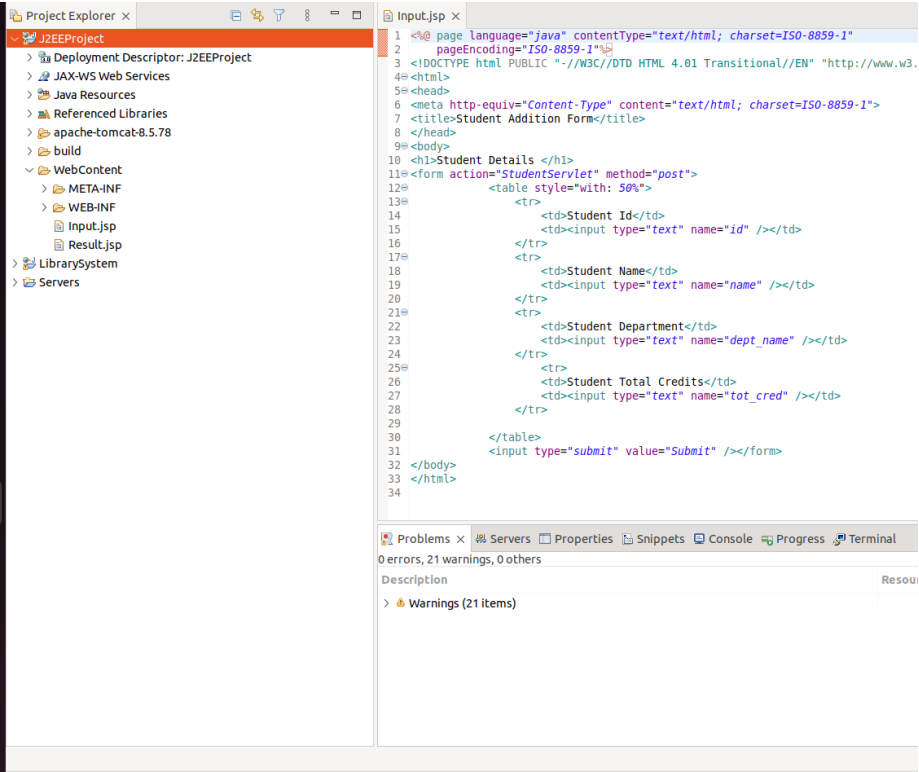


Figure 1: PartA Q1 output

2 PartA Q2)

```
Input.jsp StudentServlet.java x
14 * Servlet implementation class StudentServlet
15 */
16 @WebServlet("/StudentServlet")
17 public class StudentServlet extends HttpServlet {
18     private static final long serialVersionUID = 1L;
19
20     public StudentServlet() {
21         super();
22         // TODO Auto-generated constructor stub
23     }
24     protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException
25     {
26         try
27         {
28             //getting input values from jsp page
29             String id = request.getParameter("id");
30             String name = request.getParameter("name");
31             String dept_name = request.getParameter("dept_name");
32             int tot_cred = Integer.parseInt(request.getParameter("tot_cred"));
33
34
35             Connection con = null;
36             String url = "jdbc:mysql://localhost:3306/university"; //MySQL URL and followed by the database name
37             String username = "universityDB0021"; //MySQL username
```

Figure 2: PartA Q2 output

← → ↻ localhost:8080/JZEEProject/

Student Details

Student Id	<input type="text" value="7565"/>
Student Name	<input type="text" value="shaky"/>
Student Department	<input type="text" value="Comp. Sci."/>
Student Total Credits	<input type="text" value="150"/>

Figure 3: PartA Q2 output

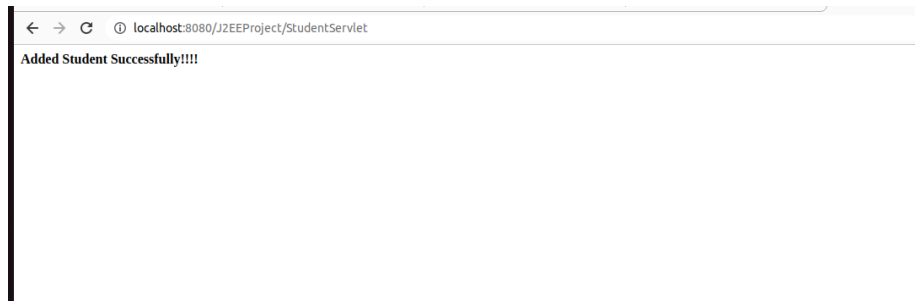


Figure 4: PartA Q2 output

3 PartB Q1)

```
abhishekj@Abhishek-Ubuntu:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 69
Server version: 8.0.30-0ubuntu0.22.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| Library  |
| information_schema |
| lab3     |
| mysql    |
| performance_schema |
| sys      |
| university |
+-----+
7 rows in set (0.00 sec)

mysql> source /home/abhishekj/Documents/DBMS_Lab/Lab6/J2EEProject/src/Create.sql;
Database changed
Query OK, 0 rows affected (0.07 sec)

Query OK, 0 rows affected (0.06 sec)

Query OK, 0 rows affected (0.09 sec)

mysql> show tables;
+-----+
| Tables_in_library |
+-----+
| book               |
| issue              |
| student            |
+-----+
3 rows in set (0.00 sec)

mysql>
```

Figure 5: PartB Q1 output

4 PartB Q2)

```
Database changed
mysql> select * from student;
Empty set (0.00 sec)

mysql> source /home/abhishekj/Documents/DBMS_Lab/Lab6/J2EEProject/src/Insert.sql;
Database changed
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0

Query OK, 10 rows affected (0.01 sec)
Records: 10 Duplicates: 0 Warnings: 0

mysql> select * from student;
+-----+-----+-----+-----+-----+
| student_id | name      | dept_name | year | semester |
+-----+-----+-----+-----+-----+
| 1          | Abhishek  | Comp. Sci. | 3    | Fall      |
| 2          | Karthik   | Biology    | 4    | Summer    |
| 3          | Keshav    | EE         | 2    | Winter    |
| 4          | Prakash   | Comp. Sci. | 1    | Spring    |
| 5          | Sri Ram   | MNAE       | 3    | Winter    |
+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from book;
+-----+-----+-----+-----+
| book_id | title                      | category | author |
+-----+-----+-----+-----+
| 1        | Pattern Recognition        | Comp. Sci. | Murphy |
| 2        | Database Systems           | Comp. Sci. | Henry  |
| 3        | Introduction to Biology     | Biology    | Campbell |
| 4        | Digital Signal Processing   | EE         | Oppenheim |
| 5        | Mechanical Vibrations       | MNAE       | S. Rao  |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> select * from issue;
+-----+-----+-----+-----+
| student_id | book_id | issue_date | return_date |
+-----+-----+-----+-----+
| 1          | 1        | 2021-11-25 | 2022-02-28 |
| 1          | 2        | 2021-11-25 | 2022-02-28 |
| 2          | 3        | 2021-11-12 | 2022-02-13 |
| 2          | 4        | 2021-11-12 | 2022-02-13 |
| 3          | 5        | 2021-11-15 | 2022-02-16 |
| 3          | 1        | 2021-11-15 | 2022-02-16 |
| 4          | 3        | 2021-11-30 | 2022-02-15 |
| 4          | 5        | 2021-11-30 | 2022-02-15 |
| 5          | 5        | 2021-11-13 | 2022-02-24 |
| 5          | 1        | 2021-11-13 | 2022-02-24 |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

Figure 6: PartB Q2 output

5 PartB Q3) Home

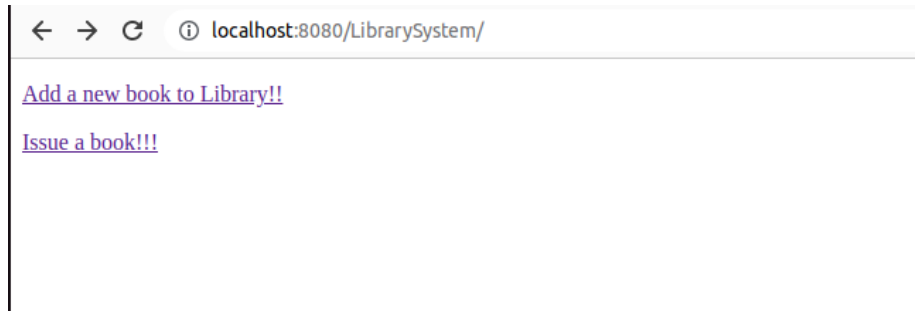


Figure 7: PartB Q3 output

6 PartB Q3) Add

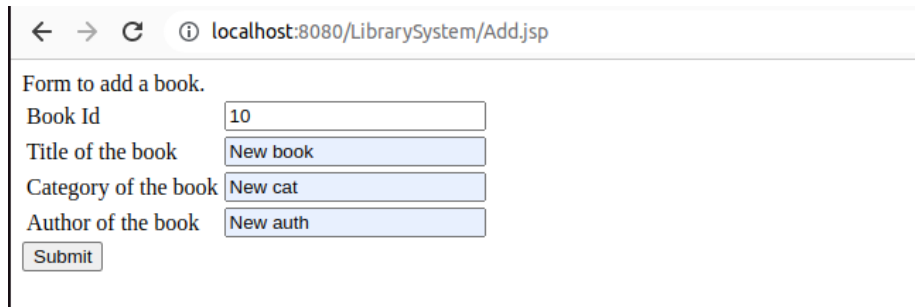


Figure 8: Q3 Add

7 PartB Q3) Add Success

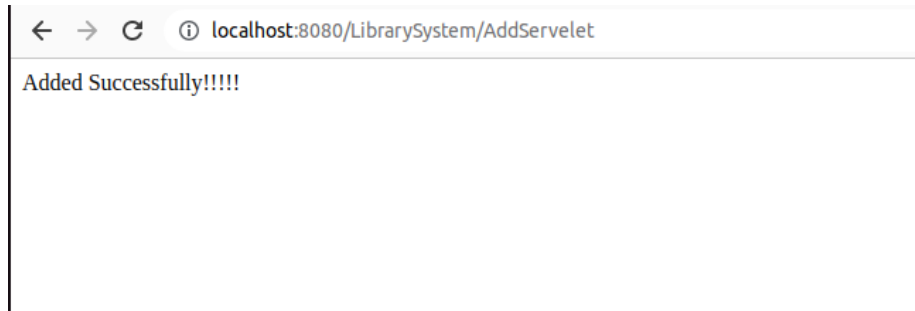


Figure 9: Q3 Add Success

8 PartB Q3) Issue

A screenshot of a web browser window. The address bar shows 'localhost:8080/LibrarySystem/Issue.jsp'. The main content area displays a form titled 'Issue a new book!!!!'. The form contains four input fields: 'Student Id' with the value '2', 'Book Id' with the value '4', 'Issue Date' with the value '15/10/2022' and a calendar icon, and 'Return Date' with the value 'dd/mm/yyyy' and a calendar icon. Below the input fields is a 'Submit' button.

Figure 10: Q3 Issue book

9 PartB Q3) Issue Success

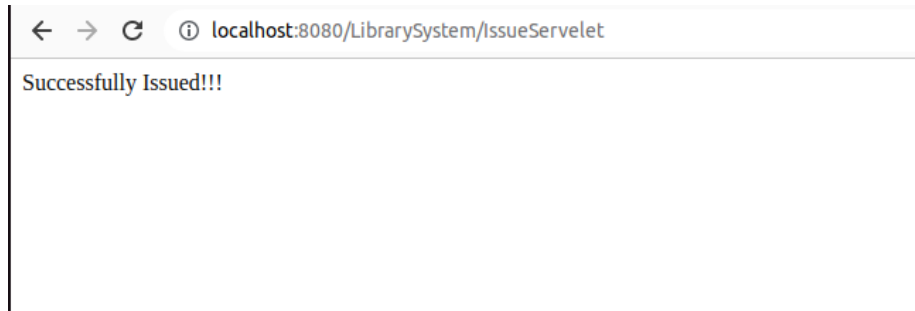


Figure 11: Q3 Issue Success

10 PartB Q3) Add Existing

A screenshot of a web browser window. The address bar shows the URL 'localhost:8080/LibrarySystem/Add.jsp'. The main content area of the browser displays a form titled 'Form to add a book.' with the following fields and values:

Book Id	2
Title of the book	New book
Category of the book	New cat
Author of the book	New auth

Below the fields is a 'Submit' button.

Figure 12: Q3 Add Existing

11 PartB Q3) Add Fail

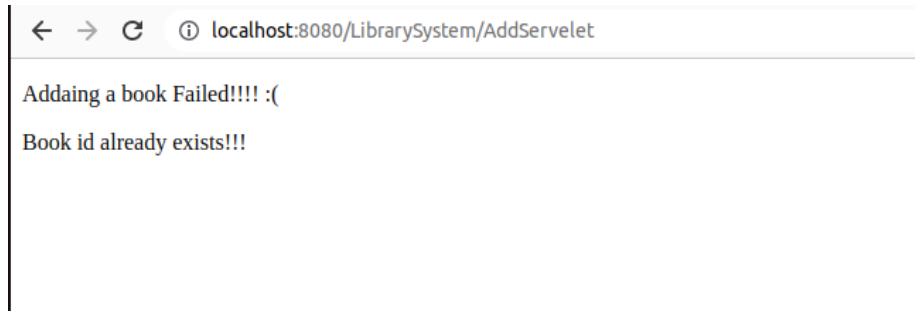


Figure 13: Q3 Add Fail

12 PartB Q3) Student does not exist

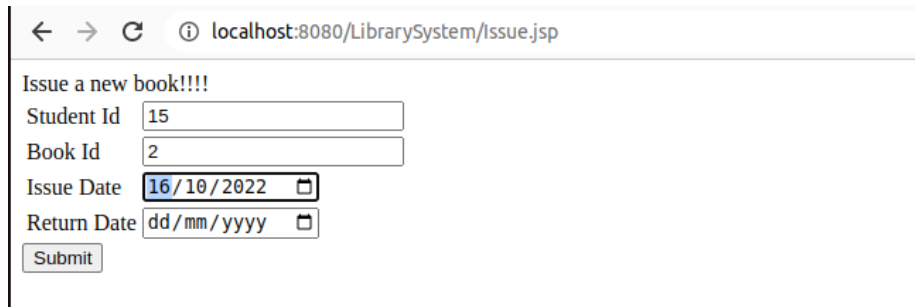


Figure 14: Q3 Student not exist

13 PartB Q3) Issue Fail

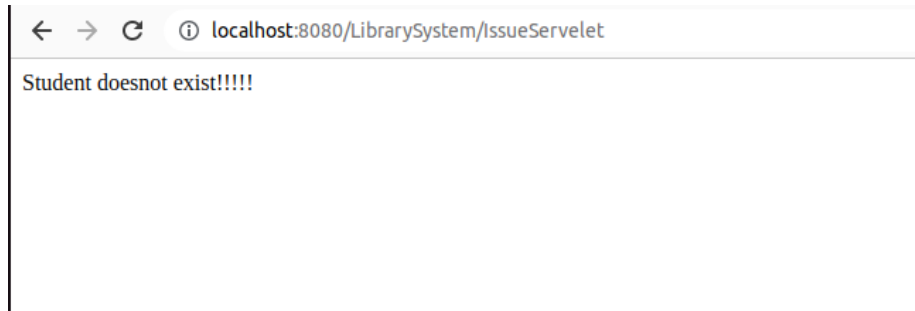


Figure 15: Q3 Issue Fail