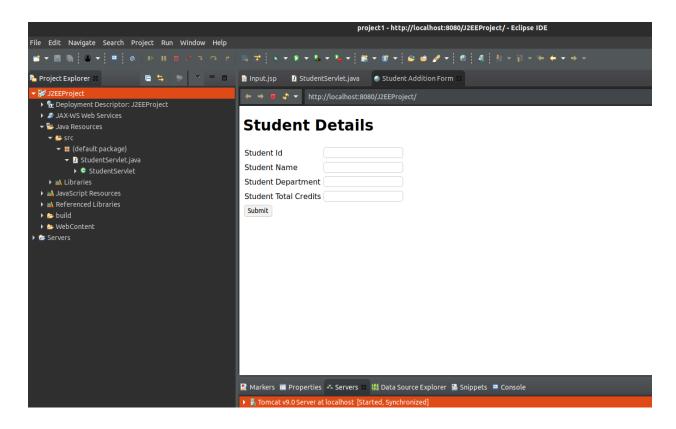
# CS 313 Databases and Information Systems Lab

Project 1

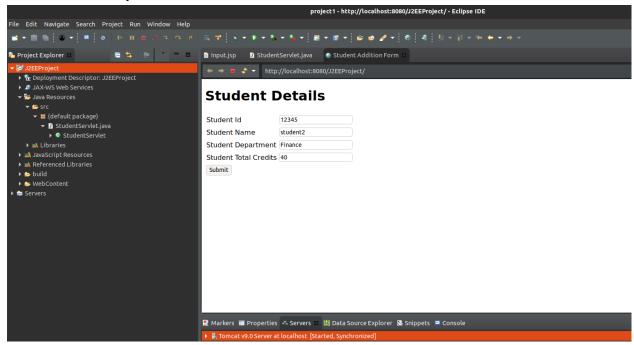
Pranav Kanire - 190010033 October 14, 2021

# Part A

I imported the given project and resolved all the issues. Finally, I got the below result:



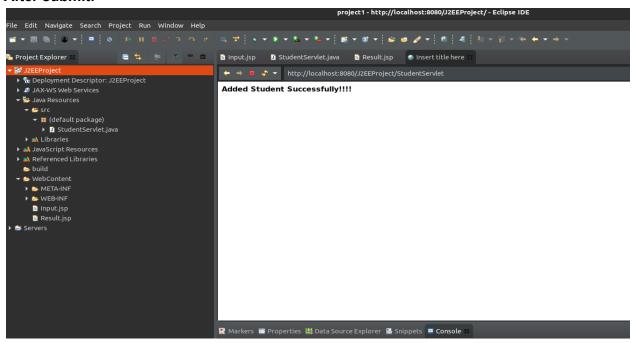
#### **Before Submit is pressed:**



#### 'student' table from 'university' database:

```
mysql> select * from student;
| ID
        name
                   | dept name | tot cred |
                   | Biology
| 00000 | New
                                        6 |
| 00128 | Zhang
                   | Comp. Sci.
                                       102 |
                   | History
| 19991 | Brandt
                                       80 I
| 23121 | Chavez
                   | Finance
                                       110
| 23242 | asfd
                   | Finance
                                        23
| 23423 | dcw
                   | Biology
                                        3 I
| 32452 | wef
                   | Biology
                                       43
 3453 | asdf
                   | Finance
                                        2
 44553 | Peltier
                   | Physics
                                       56
| 45678 | Levy
                   | Physics
                                       46
 54321 | Williams | Comp. Sci.
                                        54
| 55739 | Sanchez
                   | Music
                                        38
        star
69
                   | Physics
                                       10
 70557 | Snow
                   | Physics
                                        0
| 76543 | Brown
                   | Comp. Sci.
                                       58
 76653 | Aoi
                   | Elec. Eng.
                                       60
        | star
                   | Biology
 96
                                        1
 98765 | Bourikas | Elec. Eng.
                                       98
| 98988 | Tanaka | Biology
                                       120 I
19 rows in set (0.00 sec)
mysql>
```

#### After submit:



### 'student' table from 'university' database:

```
mysql> select * from student;
l ID
        name
                   | dept_name
                                | tot_cred |
 00000 | New
                   | Biology
                                         6 |
 00128 | Zhang
                   | Comp. Sci.
                                       102
 12345 | student2 | Finance
                                        40
                   | History
 19991 | Brandt
                                        80
  23121
        | Chavez
                   | Finance
                                       110
 23242 | asfd
                   | Finance
                                        23
 23423 | dcw
                   | Biology
                                         3
 32452 | wef
                   | Biology
                                        43
        asdf
  3453
                     Finance
                                         2
 44553 | Peltier
                   | Physics
                                        56
 45678 | Levy
                   | Physics
                                        46
 54321 | Williams | Comp. Sci.
                                        54
 55739
        | Sanchez
                     Music
                                        38
        star
                                        10
 69
                     Physics
 70557 | Snow
                     Physics
                                        0
  76543 | Brown
                     Comp. Sci.
                                        58
                     Elec. Eng.
  76653
        l Aoi
                                        60
                   | Biology
 96
        star
                                         1
  98765 | Bourikas | Elec. Eng.
                                        98
 98988 | Tanaka
                   | Biology
                                       120 |
20 rows in set (0.00 sec)
mysql>
```

# Part B

# TASK 1

Create and use Database:

```
mysql> create database Library;
Query OK, 1 row affected (0.02 sec)
mysql> use Library;
Database changed
```

#### Create Tables:

(task1.sql file is attached separately.)

```
mysql> source Documents/task1.sql;
Query OK, 0 rows affected (0.04 sec)
Query OK, 0 rows affected (0.02 sec)
Query OK, 0 rows affected (0.02 sec)
```

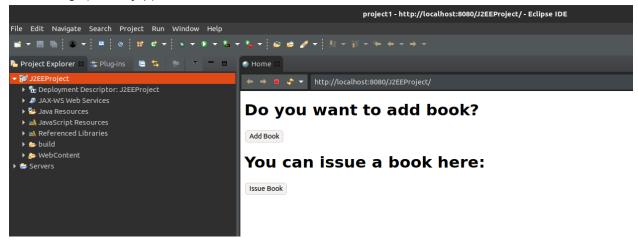
## TASK 2

Insert data into each table: (task2.sql file is attached separately.)

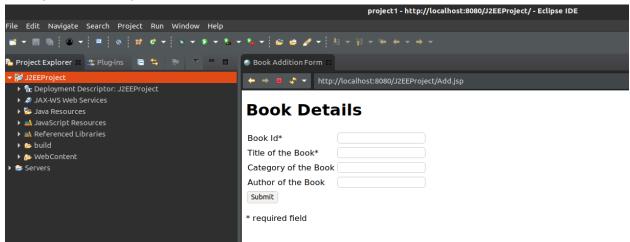
```
mysql> source Documents/task2.sql;
Query OK, 1 row affected (0.00 sec)
Query OK, 1 row affected (0.00 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.00 sec)
Query OK, 1 row affected (0.00 sec)
Query OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.00 sec)
Query OK, 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 (0.01 sec)
Query OK, 1 row affected (0.00 sec)
Query OK, 1 row affected (0.00 sec)
Ouery OK, 1 row affected (0.00 sec)
Ouery OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.00 sec)
Ouery OK, 1 row affected (0.00 sec)
Ouery OK, 1 row affected (0.00 sec)
Ouery OK, 1 row affected (0.01 sec)
Query OK, 1 row affected (0.00 sec)
mysql>
```

# TASK 3

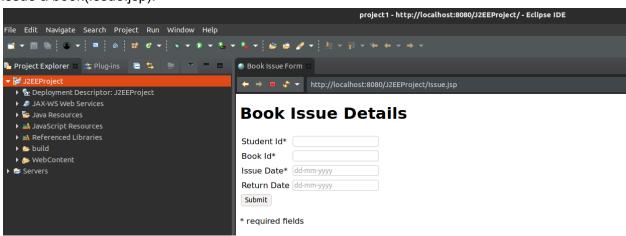
### Home Page(Home.jsp):



# Adding a book(Add.jsp):



#### Issue a book(Issue.jsp):



# Add book:

Before submitting (Add.jsp):

Book Addition Form       □		
← → ■ ❖ ▼	http://localhost:8080/J2EEProject/Add.jsp	

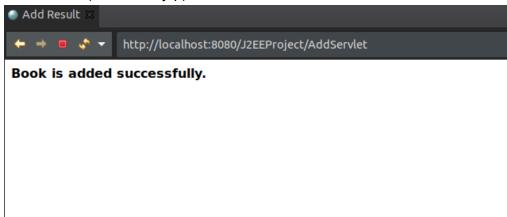
# **Book Details**

Book Id*	6
Title of the Book*	English
Category of the Book	Literature
Author of the Book	Me
Submit	

\* required field

Table 'book' before submit:

## After Submit (AddResult.jsp):

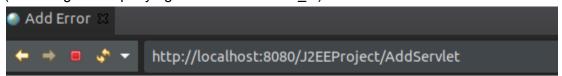


## Table 'book' after submit:

```
mysql> select * from book;
 book_id | title
                                    author
                        category
       1 | aerodynamics | mmae
                                      pranav
       2 | computer | cse
                                     genius
       3 | history
                        | hs
                                     narad
                                    | pilot
       4 | aerodynamics | mmae
       5 | circuits
                                      binary
                        ee
       6 | English
                        | Literature | Me
6 rows in set (0.00 sec)
mysql>
```

# Entering Invalid query:

(executing same query again with same book\_id)



# Input to add book was invalid.

Please enter valid input.

Go to Add Book

## **Issue Book**

Before submitting (Issue.jsp):

Book Issue Form	×
← → ■ ♣ ▼	http://localhost:8080/J2EEProject/Issue.jsp

# **Book Issue Details**

Student Id*	103
Book Id*	3
Issue Date*	12-03-2021
Return Date	dd-mm-yyyy
Submit	

\* required fields

Table 'issue' before submit:

```
mysql> select * from issue;
 student_id | book_id | issue_date | return_date
                    1 | 19-4-2021
                                  | 14-8-2021
        101
                   1 | 20-8-2020
                                  20-9-2020
                    3 | 26-7-2020
        101
                                  23-2-2021
                   1 | 05-12-2020 | 15-2-2021
        102 |
                   2 | 10-6-2020
                                  20-9-2020
        102
        103
                   3 | 30-1-2020
                                  10-5-2020
                                  27-7-2020
                   4 | 24-3-2020
        104 I
        104 |
                   5 | 15-8-2020 | 06-11-2020
        105 |
                   4 | 17-1-2021
                                  18-4-2021
        105
                   5 | 23-9-2020
                                  25-11-2020
10 rows in set (0.00 sec)
mysql>
```

After Submit (IssueResult.jsp):

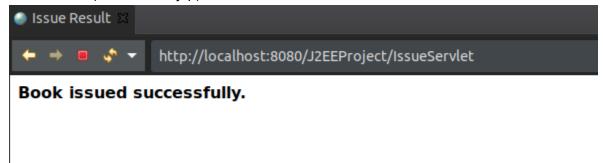
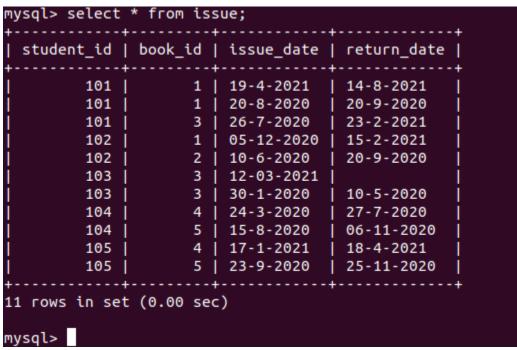


Table 'issue' after submit:



Entering Invalid query:

(executing query with same student\_id that doesn't exist)



Input to issue book was invalid.

Please enter valid input.

Go to Issue Book