

Assignment : 01

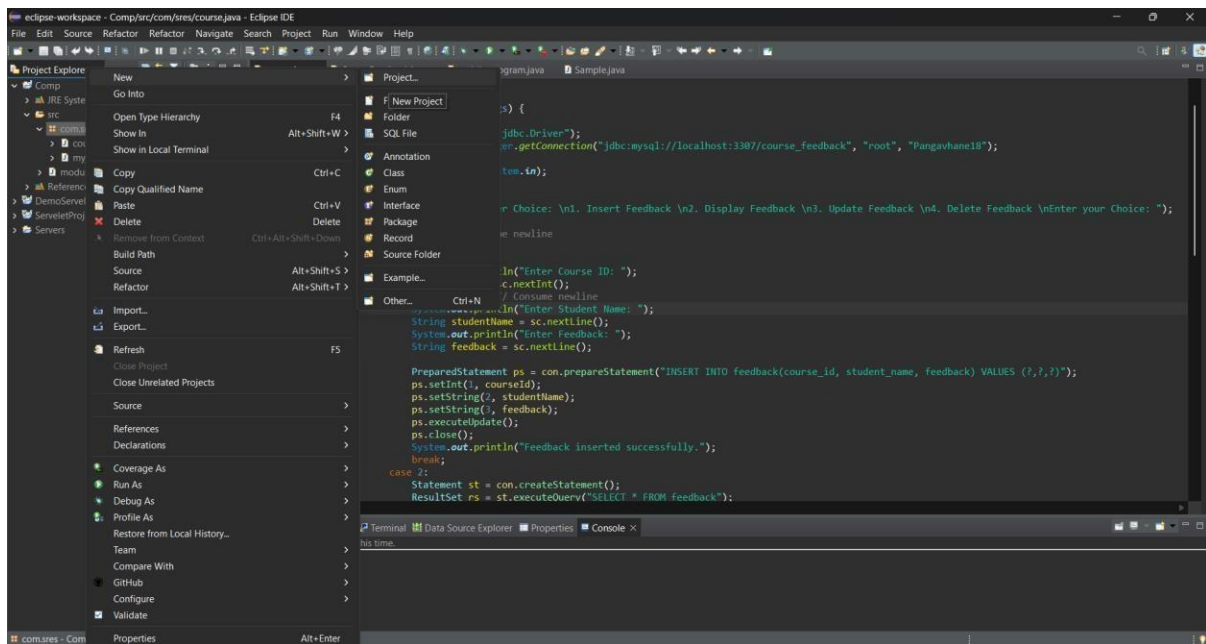
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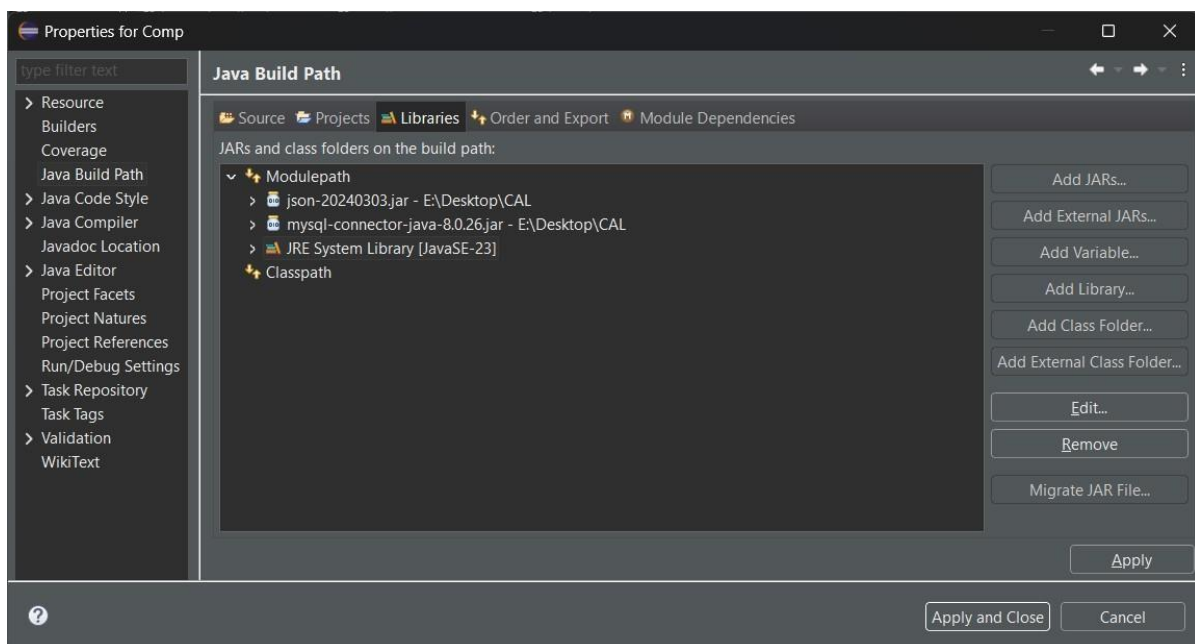
PRN No. : UCS22M1079

JDBC and Transaction Management -Add Database CRUD operations to MVC based web application using JDBC classes

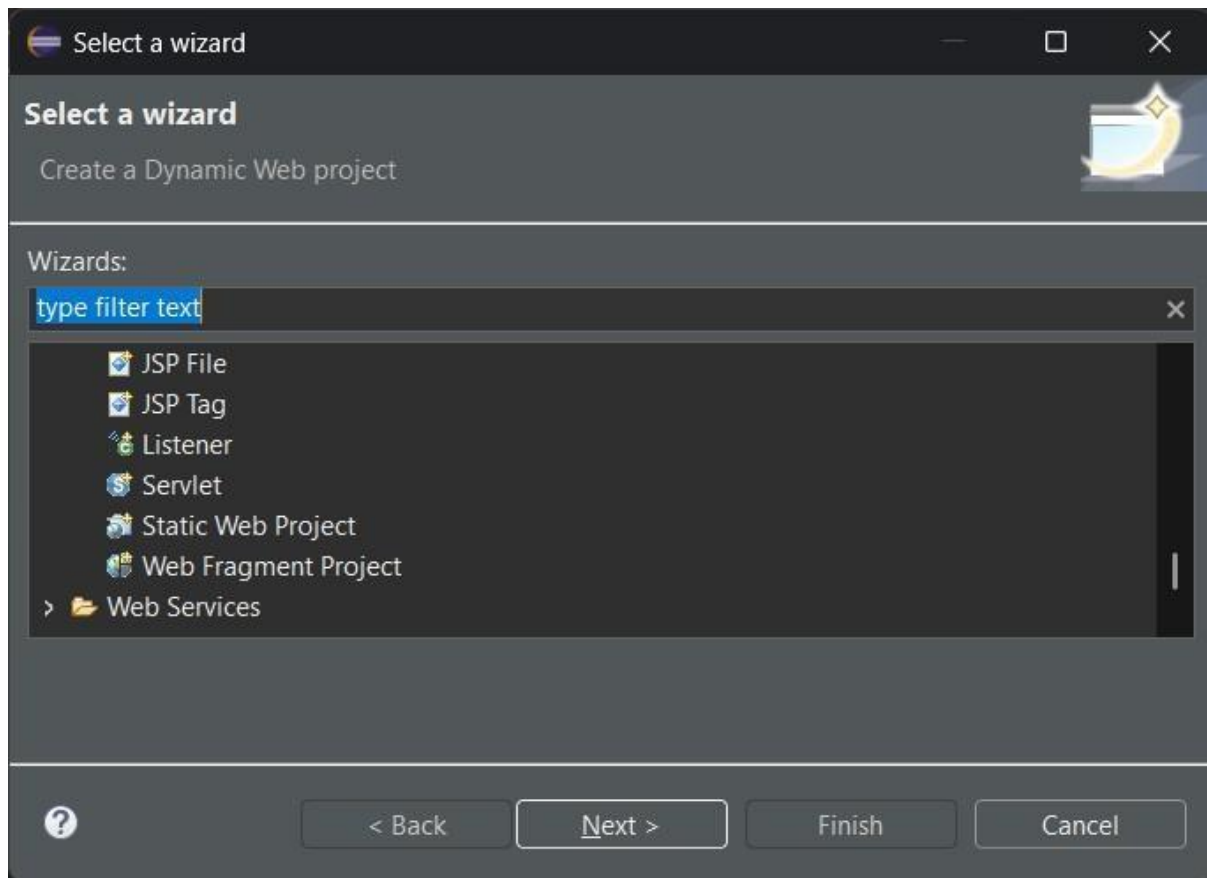
Step 1 : Create New Project in eclipse



Step 2: add external jar files like sql connector



Step 3 : Create servlet



Step 4 : Actual java Code

```
package com.sres;
```

```
import java.sql.Connection;  
import java.sql.DriverManager;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.sql.Statement;  
import java.util.Scanner;
```

```
public class course{  
    public static void main(String[] args) {  
        try {  
            Class.forName("com.mysql.cj.jdbc.Driver");  
            Connection con =  
DriverManager.getConnection("jdbc:mysql://localhost:3307/course_feedback", "root",  
"Pangavhane18");  
  
            Scanner sc = new Scanner(System.in);  
            int chs;  
            do {  
                System.out.println("Enter Choice: \n1. Insert Feedback \n2. Display Feedback \n3.  
Update Feedback \n4. Delete Feedback \nEnter your Choice: ");
```

```

int ch = sc.nextInt();
sc.nextLine(); // Consume newline
switch (ch) {
    case 1:
        System.out.println("Enter Course ID: ");
        int courseId = sc.nextInt();
        sc.nextLine(); // Consume newline
        System.out.println("Enter Student Name: ");
        String studentName = sc.nextLine();
        System.out.println("Enter Feedback: ");
        String feedback = sc.nextLine();

        PreparedStatement ps = con.prepareStatement("INSERT INTO
feedback(course_id, student_name, feedback) VALUES (?, ?, ?)");
        ps.setInt(1, courseId);
        ps.setString(2, studentName);
        ps.setString(3, feedback);
        ps.executeUpdate();
        ps.close();
        System.out.println("Feedback inserted successfully.");
        break;
    case 2:
        Statement st = con.createStatement();
        ResultSet rs = st.executeQuery("SELECT * FROM feedback");
        System.out.println("Course ID\tStudent Name\tFeedback");
        while (rs.next()) {
            System.out.println(rs.getInt(1) + "\t" + rs.getString(2) + "\t" +
rs.getString(3));
        }
        rs.close();
        st.close();
        break;
    case 3:
        System.out.println("Enter Feedback ID to update: ");
        int feedbackId = sc.nextInt();
        sc.nextLine(); // Consume newline
        System.out.println("Enter the new feedback: ");
        String newFeedback = sc.nextLine();

        ps = con.prepareStatement("UPDATE feedback SET feedback=? WHERE id
= ?");

        ps.setString(1, newFeedback);
        ps.setInt(2, feedbackId);
        ps.executeUpdate();
        ps.close();
        System.out.println("Update successful.");
        break;
    case 4:

```

```

        System.out.println("Enter Feedback ID to delete: ");
        int feedbackIdToDelete = sc.nextInt();
        ps = con.prepareStatement("DELETE FROM feedback WHERE id = ?");
        ps.setInt(1, feedbackIdToDelete);
        ps.executeUpdate();
        ps.close();
        System.out.println("Feedback deleted successfully.");
        break;
    default:
        System.out.println("Invalid choice. Please enter a valid option.");
        break;
    }
    System.out.println("Press 0 to continue or any other key to exit: ");
    if (sc.hasNextInt()) {
        chs = sc.nextInt();
    } else {
        chs = 1; // Exit safely
    }
    sc.nextLine(); // Consume newline
} while (chs == 0);

sc.close();
con.close();
} catch (Exception e) {
    System.out.println("Error: " + e.getMessage());
    e.printStackTrace();
}
}
}

```

Step 5 : output

localhost / 127.0.0.1 / course_fec

localhost/phpmyadmin/index.php?route=/table/sql&db=course_feedback&table=feedback

Server: 127.0.0.1 » Database: course_feedback » Table: feedback

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking

Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

```
SELECT * FROM feedback;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

	id	course_id	student_name	feedback
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	101	John Doe	Great course!

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Console ☐ Let every user access this bookmark

23°C
Haze

Search

ENG
IN

10:21
16-02-2025