

Teachers Feedback Form

JAVA -Micro Project

Coding :

```
import javax.swing.*;
import javax.swing.SwingUtilities;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;

public class TeacherFeedbackForm extends JFrame {
    private static final long serialVersionUID = 1L;

    private JTextField teacherNameField, studentNameField;
    private JComboBox<Integer> interactionBox, teachingBox, knowledgeBox, clarityBox,
punctualityBox;
    private JTextArea commentsArea;

    public TeacherFeedbackForm() {
        setTitle("Teacher Feedback Form");
        setSize(450, 600);
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setLayout(new BorderLayout());

        // College Name Label
        JLabel collegeLabel = new JLabel("KONGU ENGINEERING COLLEGE",
JLabel.CENTER);
        collegeLabel.setFont(new Font("Serif", Font.BOLD, 18));
        collegeLabel.setBorder(BorderFactory.createEmptyBorder(10, 0, 20, 0));
```

```
// Form Panel

JPanel formPanel = new JPanel();
formPanel.setLayout(new GridLayout(9, 2, 10, 10));
formPanel.setBorder(BorderFactory.createEmptyBorder(10, 10, 10, 10));

teacherNameField = new JTextField();
studentNameField = new JTextField();
interactionBox = createRatingComboBox();
teachingBox = createRatingComboBox();
knowledgeBox = createRatingComboBox();
clarityBox = createRatingComboBox();
punctualityBox = createRatingComboBox();
commentsArea = new JTextArea(3, 20);

// Submit Button

JButton submitButton = new JButton("Submit");

formPanel.add(new JLabel("Student Name:"));
formPanel.add(studentNameField);

formPanel.add(new JLabel("Teacher Name:"));
formPanel.add(teacherNameField);

formPanel.add(new JLabel("Interaction:"));
formPanel.add(interactionBox);

formPanel.add(new JLabel("Teaching:"));
formPanel.add(teachingBox);

formPanel.add(new JLabel("Subject Knowledge:"));
formPanel.add(knowledgeBox);

formPanel.add(new JLabel("Clarity:"));
```

```
formPanel.add(clarityBox);
```

```
formPanel.add(new JLabel("Punctuality:"));
```

```
formPanel.add(punctualityBox);
```

```
formPanel.add(new JLabel("Comments:"));
```

```
formPanel.add(new JScrollPane(commentsArea));
```

```
// Adding Components
```

```
add(collegeLabel, BorderLayout.NORTH);
```

```
add(formPanel, BorderLayout.CENTER);
```

```
add(submitButton, BorderLayout.SOUTH);
```

```
// Action Listener for Submit Button
```

```
submitButton.addActionListener(new ActionListener() {
```

```
    @Override
```

```
    public void actionPerformed(ActionEvent e) {
```

```
        submitFeedback();
```

```
    }
```

```
});
```

```
}
```

```
private JComboBox<Integer> createRatingComboBox() {
```

```
    Integer[] ratings = {1, 2, 3, 4, 5};
```

```
    return new JComboBox<>(ratings);
```

```
}
```

```
private void submitFeedback() {
```

```
    String studentName = studentNameField.getText();
```

```
    String teacherName = teacherNameField.getText();
```

```
    int interaction = (int) interactionBox.getSelectedItem();
```

```
    int teaching = (int) teachingBox.getSelectedItem();
```

```
    int knowledge = (int) knowledgeBox.getSelectedItem();
```

```
int clarity = (int) clarityBox.getSelectedItem();
```

```
int punctuality = (int) punctualityBox.getSelectedItem();
```

```
String comments = commentsArea.getText();
```

```
String query = "INSERT INTO teacher_feedback (student_name, teacher_name,  
interaction, teaching, knowledge, clarity, punctuality, comments) VALUES (?, ?, ?, ?, ?, ?, ?,  
?)";
```

```
try (Connection connection = DatabaseConnection.getConnection();
```

```
    PreparedStatement preparedStatement = connection.prepareStatement(query)) {
```

```
    preparedStatement.setString(1, studentName);
```

```
    preparedStatement.setString(2, teacherName);
```

```
    preparedStatement.setInt(3, interaction);
```

```
    preparedStatement.setInt(4, teaching);
```

```
    preparedStatement.setInt(5, knowledge);
```

```
    preparedStatement.setInt(6, clarity);
```

```
    preparedStatement.setInt(7, punctuality);
```

```
    preparedStatement.setString(8, comments);
```

```
int rowsAffected = preparedStatement.executeUpdate();
```

```
if (rowsAffected > 0) {
```

```
    JOptionPane.showMessageDialog(this, "Feedback submitted successfully!");
```

```
    clearForm();
```

```
} else {
```

```
    JOptionPane.showMessageDialog(this, "Failed to submit feedback.");
```

```
}
```

```
} catch (SQLException ex) {
```

```
    ex.printStackTrace();
```

```
}
```

```
}
```

```

private void clearForm() {
    studentNameField.setText("");
    teacherNameField.setText("");
    interactionBox.setSelectedIndex(0);
    teachingBox.setSelectedIndex(0);
    knowledgeBox.setSelectedIndex(0);
    clarityBox.setSelectedIndex(0);
    punctualityBox.setSelectedIndex(0);
    commentsArea.setText("");
}

public static void main(String[] args) {
    SwingUtilities.invokeLater(() -> {
        TeacherFeedbackForm form = new TeacherFeedbackForm();
        form.setVisible(true);
    });
}
}

```

Database connection Coding:

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;

public class DatabaseConnection {
    private static final String URL = "jdbc:mysql://localhost:3306/feedback_system";
    private static final String USER = "root"; // Replace with your MySQL username
    private static final String PASSWORD = ""; // Replace with your MySQL password

    public static Connection getConnection() throws SQLException {
        return DriverManager.getConnection(URL, USER, PASSWORD);
    }
}

```

Output :

Teacher Feedback Form

ABC College of Technology

Student Name:

Teacher Name:

Interaction:

1

Teaching:

1

Subject Knowledge:

1

Clarity:

1

Punctuality:

1

Comments:

Submit

Database :

				id	student_name	teacher_name	interaction	teaching	knowledge	clarity	punctuality	comments
<input type="checkbox"/>				2	a	g	1	1	1	5	1	very good in all
<input type="checkbox"/>				3			1	1	1	1	1	
<input type="checkbox"/>				4	a	b	5	1	1	1	5	very good
<input type="checkbox"/>				5	s		1	1	1	1	1	
<input type="checkbox"/>				6			1	1	1	1	1	
<input type="checkbox"/>				7	a	s	1	1	5	1	1	
<input type="checkbox"/>				8	vimal	hari	4	3	1	1	1	very good
<input type="checkbox"/>				9	hari	vimal	1	1	1	1	1	
	<input type="checkbox"/>	Check all	With selected:		Edit		Copy		Delete		Export	