Cat D: JDBC

D1- Create a User Registration Form using Swing, JDBC & MySQL.

**Code:**

import java.awt.EventQueue;

import javax.swing.JFrame;

import javax.swing.JPanel;

import javax.swing.border.EmptyBorder;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JTextField;

import javax.swing.JTextArea;

import javax.swing.JPasswordField;

import javax.swing.JButton;

import java.awt.event.ActionListener;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.awt.event.ActionEvent;

public class Registration extends JFrame {

private JPanel contentPane;

private JTextField textField;

private JTextField textField\_1;

private JTextField textField\_2;

private JTextField textField\_3;

private JPasswordField passwordField;

/\*\*

\* Launch the application.

\*/

public static void main(String[] args) {

EventQueue.invokeLater(new Runnable() {

public void run() {

try {

Registration frame = new Registration();

frame.setVisible(true);

} catch (Exception e) {

e.printStackTrace();

}

}

});

}

/\*\*

\* Create the frame.

\*/

public Registration() {

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

setBounds(100, 100, 651, 384);

contentPane = new JPanel();

contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));

setContentPane(contentPane);

contentPane.setLayout(null);

JLabel lblNewLabel = new JLabel("User Registration");

lblNewLabel.setBounds(268, 11, 117, 14);

contentPane.add(lblNewLabel);

JLabel lblNewLabel\_1 = new JLabel("Name:");

lblNewLabel\_1.setBounds(63, 53, 46, 14);

contentPane.add(lblNewLabel\_1);

JLabel lblNewLabel\_1\_1 = new JLabel("Address:");

lblNewLabel\_1\_1.setBounds(63, 86, 61, 14);

contentPane.add(lblNewLabel\_1\_1);

JLabel lblNewLabel\_1\_3 = new JLabel("Age:");

lblNewLabel\_1\_3.setBounds(63, 158, 46, 14);

contentPane.add(lblNewLabel\_1\_3);

JLabel lblNewLabel\_1\_4 = new JLabel("Mobile No:");

lblNewLabel\_1\_4.setBounds(63, 183, 61, 14);

contentPane.add(lblNewLabel\_1\_4);

JLabel lblNewLabel\_1\_5 = new JLabel("User Name:");

lblNewLabel\_1\_5.setBounds(63, 217, 74, 14);

contentPane.add(lblNewLabel\_1\_5);

JLabel lblNewLabel\_1\_6 = new JLabel("Password:");

lblNewLabel\_1\_6.setBounds(63, 245, 61, 14);

contentPane.add(lblNewLabel\_1\_6);

textField = new JTextField();

textField.setBounds(166, 50, 139, 20);

contentPane.add(textField);

textField.setColumns(10);

JTextArea textArea = new JTextArea();

textArea.setBounds(166, 81, 139, 63);

contentPane.add(textArea);

textField\_1 = new JTextField();

textField\_1.setBounds(166, 155, 139, 20);

contentPane.add(textField\_1);

textField\_1.setColumns(10);

textField\_2 = new JTextField();

textField\_2.setBounds(166, 183, 139, 20);

contentPane.add(textField\_2);

textField\_2.setColumns(10);

textField\_3 = new JTextField();

textField\_3.setBounds(166, 214, 139, 20);

contentPane.add(textField\_3);

textField\_3.setColumns(10);

passwordField = new JPasswordField();

passwordField.setBounds(166, 241, 139, 23);

contentPane.add(passwordField);

JButton btnNewButton = new JButton("Submit");

btnNewButton.addActionListener(new ActionListener() {

@SuppressWarnings("deprecation")

public void actionPerformed(ActionEvent e) {

try

{

Class.forName("com.mysql.cj.jdbc.Driver"); //Loads Driver

Connection con = DriverManager.getConnection("com.mysql.cj.jdbc.Driver:mysql://localhost:3306/Registration","root","1234");

String query = "insert into users value(?,?,?,?,?)";

PreparedStatement ps = con.prepareStatement(query);

ps.setString(1, textField.getText());

ps.setString(2, textField\_1.getText());

ps.setString(3, textField\_2.getText());

ps.setString(4, textField\_3.getText());

ps.setString(5, passwordField.getText());

ps.executeUpdate(); //Important

JOptionPane.showMessageDialog(btnNewButton, "Registration Done..");

}

catch(Exception ex)

{

System.out.println(ex);

}

}

});

btnNewButton.setBounds(88, 284, 89, 23);

contentPane.add(btnNewButton);

JButton btnNewButton\_1 = new JButton("Reset");

btnNewButton\_1.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

textField.setText("");

textField\_1.setText("");

textField\_2.setText("");

textField\_3.setText("");

passwordField.setText("");

}

});

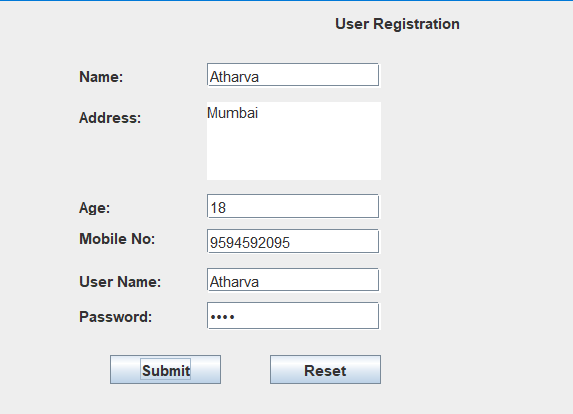
btnNewButton\_1.setBounds(216, 284, 89, 23);

contentPane.add(btnNewButton\_1);

}

}

**Output:**

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**D2-** Create Login Form using Swing, JDBC & MySQL.

**Code:**

JButton l1 = new JButton("LOGIN");

l1.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent a) {

Connection con;

PreparedStatement ps;

ResultSet rs;

try

{

Class.forName("com.mysql.cj.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/singh","root","pass123");

System.out.println("ConnectionCreated");

ps=con.prepareStatement("select USERNAME from login where USERNAME=? and PASSWORD=?");

ps.setString(1,t1.getText());

ps.setString(2,t2.getText());

rs=ps.executeQuery();

if(rs.next())

JOptionPane.showMessageDialog(l1, "Login Sucessful...");

else

JOptionPane.showMessageDialog(l1,"Login failed...");

ps.close();

con.close();

}

catch(Exception e)

{

System.out.println(e);

}

}

});

JButton r1 = new JButton("RESET ");

r1.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

t1.setText("");

t2.setText("");

}

});