Сървър:

import java.io.IOException;

import java.io.PrintWriter;

import java.net.ServerSocket;

import java.net.Socket;

import java.sql.Connection;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.Scanner;

import server.Server;

class ClientServiceThread extends Thread {

 private Socket socket;

 public ClientServiceThread(Socket socket) {

 this.socket = socket;

 }

 @Override

 public void run() {

 Scanner input = null;

 PrintWriter output = null;

 try {

 input = new Scanner(socket.getInputStream());

 output = new PrintWriter(socket.getOutputStream(), true);

 //tuk zamenqm polu4avaneto na querry

 int N = input.nextInt();//tuk 4eta zaqvkata ot klienta

 //vmukvam 4astta sus bazata danni za vsqko polu4eno N ot client

 String url = "jdbc:mysql://localhost:3306/forum";

 String user = "root";

 String pass = "admin";

 Connection link = Server.connect(url, user, pass);

 if (link == null) {

 System.out.println("Опа, MySQL не е пуснат!");

 return;

 } else {

 System.out.println("Свързах се с MySQL сървъра!");

 }

 String username;

 String password;

 ResultSet resultSet=null;

 //

 if (N == 1) {//login

 Statement stmt = null;

 try {

 input.next(username);

 input.next(password);

 PreparedStatement preparedStatement;

 preparedStatement = link.prepareStatement("SELECT username,password FROM user\_data WHERE username=? AND password=?");

 preparedStatement.setString(1, username);

 preparedStatement.setString(2, password);

 resultSet = preparedStatement.executeQuery();

 if(resultSet!= null )output.println("YES");

 else

 output.println("NO");

 } catch (SQLException e) {

 e.printStackTrace();

 } finally {

 try {

 if (stmt != null) {

 stmt.close();

 }

 if (resultSet != null) {

 resultSet.close();

 }

 if (link != null) {

 link.close();

 }

 } catch (SQLException e2) {

 e2.printStackTrace();

 }

 }

 try {

 Thread.sleep(1000);

 } catch (InterruptedException e) {

 // Nyam da se prekasva rabotata na nishkata

 }

 } else if (N == 2) {username="";

 password="";

 try {

 Thread.sleep(1000);

 } catch (InterruptedException e) {

 // Nyam da se prekasva rabotata na nishkata

 }

 } else if (N == 3) {//show all messages

 Statement stmt = null;

 ResultSet resultSet = null;

 try {

 stmt = link.createStatement();

 resultSet = stmt.executeQuery("SELECT \* FROM messages");//querry da izprati vsi4ki suob6teniq kato string

 // Обхождаме резултатната таблица ред по ред и отпечатваме на екрана

 while (resultSet.next()) {//tova pra6ta na klienta kato string

 output.print("UserID: " + resultSet.getLong("userID"));

 output.print(", Date: " + resultSet.getDate("date"));

 output.println(", message: " + resultSet.getString("message"));

 }

 } catch (SQLException e) {

 e.printStackTrace();

 } finally {

 try {

 if (stmt != null) {

 stmt.close();

 }

 if (resultSet != null) {

 resultSet.close();

 }

 if (link != null) {

 link.close();

 }

 } catch (SQLException e2) {

 e2.printStackTrace();

 }

 }

 try {

 Thread.sleep(1000);

 } catch (InterruptedException e) {

 // Nyam da se prekasva rabotata na nishkata

 }

 } else if (N == 4) {//show profile

 Statement stmt = null;

 ResultSet resultSet = null;

 try {

 PreparedStatement preparedStatement;

 preparedStatement = link.prepareStatement("SELECT name,age,sex,reg\_date FROM user\_personal WHERE userID=(SELECT iserID FROM user\_data WHERE username=?)");

 preparedStatement.setString(1, username);

 resultSet = preparedStatement.executeQuery();

 while (resultSet.next()) {//tova pra6ta na klienta kato string

 output.print("name:" + resultSet.getString("name"));

 output.print("age:" + resultSet.getInt("age"));

 output.print(", reg\_Date: " + resultSet.getDate("reg\_date"));

 output.println(", sex: " + resultSet.getInt("sex"));

 }

 } catch (SQLException e) {

 e.printStackTrace();

 } finally {

 try {

 if (resultSet != null) {

 resultSet.close();

 }

 if (link != null) {

 link.close();

 }

 } catch (SQLException e2) {

 e2.printStackTrace();

 }

 }

 output.println();//taka pra6tam do klienta profila na nqkoi ot abonatite

 try {

 Thread.sleep(1000);

 } catch (InterruptedException e) {

 // Nyam da se prekasva rabotata na nishkata

 }

 } else if (N == 5) {//show pm

 try {

 PreparedStatement preparedStatement;

 preparedStatement = link.prepareStatement("SELECT author,date,message FROM pers\_messages WHERE reciever = (SELECT iserID FROM user\_data WHERE username=?)");

 preparedStatement.setString(1, username);

 resultSet = preparedStatement.executeQuery();

 while (resultSet.next()) {//tova pra6ta na klienta kato string

 output.print("author:" + resultSet.getLong("author"));

 output.print(", Date: " + resultSet.getDate("date"));

 output.println(", message: " + resultSet.getString("message"));

 }

 }

 } catch (SQLException e) {

 e.printStackTrace();

 } finally {

 try {

 if (resultSet != null) {

 resultSet.close();

 }

 if (link != null) {

 link.close();

 }

 } catch (SQLException e2) {

 e2.printStackTrace();

 }

 }

 output.println();//pra6ta PM do klienta

 try {

 Thread.sleep(1000);

 } catch (InterruptedException e) {

 // Nyam da se prekasva rabotata na nishkata

 }

 }

//do rtuk

 } catch (IOException e) {

 System.err

 .println("Problem pri otvaryaneto na potocite za vhod i izhod");

 } finally {

 if (input != null) {

 input.close();

 }

 if (output != null) {

 output.close();

 }

 try {

 socket.close();

 } catch (IOException e) {

 System.err.println("Problem pri zatvarqneto na soketa");

 }

 }

 }

}

public class NewClass {

 public static void main(String[] args) {

 ServerSocket server = null;

 try {

 server = new ServerSocket(3456);

 while (true) { //ako polu4a nova vruzka s klient puska ni6ka

 Socket clientConnection = server.accept();

 ClientServiceThread incomingClient = new ClientServiceThread(

 clientConnection);

 incomingClient.start();//startira thread

 }

 } catch (IOException e) {

 System.err.println("Problem pri startiraneto na servera");

 }

 }

}

package server;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

public class Server{

 // метод който се свързва със SQL сървъра и връща ресурс (връзка) към него,

 // а ако свързването е неуспешно, ще върне NULL

 private static Connection connect(String url, String user, String password){

 Connection result = null;

 try{

 result = DriverManager.getConnection(url, user, password);

 }

 catch(SQLException e){

 e.printStackTrace();

 }

 return result;

 }}

Клиент:

package forum;

import java.io.IOException;

import java.io.PrintWriter;

import java.net.Socket;

import java.net.UnknownHostException;

import java.util.Random;

import java.util.Scanner;

/\*\*

 public static void main(String[] args) {

 Socket connection =null;

 Scanner input = null;

 PrintWriter output = null;

 try

 {

 connection = new Socket("localhost",3456);

 input = new Scanner(connection.getInputStream());

 output = new PrintWriter(connection.getOutputStream(),true);

 Random rand = new Random();

 output.println(rand.nextInt(15));

 while(input.hasNextLine())

 System.out.println(input.nextLine());

 }

 catch (UnknownHostException e) {

 System.err.println("Ne posnat hostname");

 }

 catch(IOException e)

 {

 System.err.println("Problem pri svarzvaneto");

 }

 finally

 {

 if(input!=null)

 input.close();

 if(output!=null)

 output.close();

 try

 {

 if(connection!=null)

 connection.close();

 }

 catch(IOException e)

 {

 System.err.println("Problem pri zatvaryaneto na soketa");

 }

 }

 }

}

 \*/

public class mainlogin extends javax.swing.JFrame {

 public mainlogin() {

 initComponents();

 Socket connection =null;

 Scanner input = null;

 PrintWriter output = null;

 try

 {

 connection = new Socket("localhost",3456);

 input = new Scanner(connection.getInputStream()); //slagam gi v metodite kogato izpra6tam

 output = new PrintWriter(connection.getOutputStream(),true); /pra6ta kum survra/

 }

 catch (UnknownHostException e) {

 System.err.println("Ne posnat hostname");

 }

 catch(IOException e)

 {

 System.err.println("Problem pri svarzvaneto");

 }

 finally

 {

 if(input!=null)

 input.close();

 if(output!=null)

 output.close();

 try

 {

 if(connection!=null)

 connection.close();

 }

 catch(IOException e)

 {

 System.err.println("Problem pri zatvaryaneto na soketa");

 }

 }

 }

 }

 @SuppressWarnings("unchecked")

 // <editor-fold defaultstate="collapsed" desc="Generated Code">

 private void initComponents() {

 jScrollPane1 = new javax.swing.JScrollPane();

 jTextArea1 = new javax.swing.JTextArea();

 jButton4 = new javax.swing.JButton();

 jPanel1 = new javax.swing.JPanel();

 jLabel1 = new javax.swing.JLabel();

 jTextField1 = new javax.swing.JTextField();

 jLabel2 = new javax.swing.JLabel();

 jTextField2 = new javax.swing.JTextField();

 jButton2 = new javax.swing.JButton();

 jButton1 = new javax.swing.JButton();

 jPanel2 = new javax.swing.JPanel();

 jButton3 = new javax.swing.JButton();

 jButton5 = new javax.swing.JButton();

 jTextField3 = new javax.swing.JTextField();

 jButton6 = new javax.swing.JButton();

 jTextField4 = new javax.swing.JTextField();

 setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

 jTextArea1.setColumns(20);

 jTextArea1.setRows(5);

 jScrollPane1.setViewportView(jTextArea1);

 jButton4.setText("show all messages");

 jLabel1.setText("username");

 jTextField1.setMinimumSize(new java.awt.Dimension(100, 20));

 jTextField1.setName(""); // NOI18N

 jTextField1.setPreferredSize(new java.awt.Dimension(50, 20));

 jTextField1.addActionListener(new java.awt.event.ActionListener() {

 public void actionPerformed(java.awt.event.ActionEvent evt) {

 jTextField1ActionPerformed(evt);

 }

 });

 jLabel2.setText("password");

 jTextField2.setPreferredSize(new java.awt.Dimension(50, 20));

 jButton2.setText("logout");

 jButton1.setText("login");

 jButton1.addActionListener(new java.awt.event.ActionListener() {

 public void actionPerformed(java.awt.event.ActionEvent evt) {

 jButton1ActionPerformed(evt);

 }

 });

 javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

 jPanel1.setLayout(jPanel1Layout);

 jPanel1Layout.setHorizontalGroup(

 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(jPanel1Layout.createSequentialGroup()

 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(jPanel1Layout.createSequentialGroup()

 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

 .addComponent(jLabel2)

 .addComponent(jLabel1))

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

 .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

 .addComponent(jButton2)

 .addComponent(jButton1))

 .addGap(0, 0, Short.MAX\_VALUE))

 );

 jPanel1Layout.setVerticalGroup(

 jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(jPanel1Layout.createSequentialGroup()

 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addComponent(jLabel1)

 .addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

 .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

 .addComponent(jLabel2)

 .addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

 .addComponent(jButton1)

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

 .addComponent(jButton2)

 .addContainerGap())

 );

 jButton3.setText("show PM");

 jButton5.setText("writePM");

 jTextField3.setText("TO");

 jTextField3.setPreferredSize(new java.awt.Dimension(60, 20));

 jTextField3.setRequestFocusEnabled(false);

 javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

 jPanel2.setLayout(jPanel2Layout);

 jPanel2Layout.setHorizontalGroup(

 jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(jPanel2Layout.createSequentialGroup()

 .addContainerGap()

 .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addComponent(jButton3)

 .addGroup(jPanel2Layout.createSequentialGroup()

 .addComponent(jButton5)

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

 .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)))

 .addContainerGap(22, Short.MAX\_VALUE))

 );

 jPanel2Layout.setVerticalGroup(

 jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(jPanel2Layout.createSequentialGroup()

 .addContainerGap()

 .addComponent(jButton3)

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

 .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

 .addComponent(jButton5)

 .addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

 .addContainerGap(37, Short.MAX\_VALUE))

 );

 jButton6.setText("show profile");

 jTextField4.setText("username");

 jTextField4.setPreferredSize(new java.awt.Dimension(60, 20));

 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

 getContentPane().setLayout(layout);

 layout.setHorizontalGroup(

 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(layout.createSequentialGroup()

 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

 .addGroup(layout.createSequentialGroup()

 .addContainerGap()

 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(layout.createSequentialGroup()

 .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

 .addComponent(jButton6))

 .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

 .addComponent(jButton4))))

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

 .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT\_SIZE, 239, Short.MAX\_VALUE)

 .addContainerGap())

 );

 layout.setVerticalGroup(

 layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(layout.createSequentialGroup()

 .addContainerGap()

 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

 .addGroup(layout.createSequentialGroup()

 .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

 .addComponent(jButton4)

 .addGap(113, 113, 113)

 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

 .addComponent(jButton6)

 .addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

 .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

 .addGap(0, 0, Short.MAX\_VALUE))

 .addComponent(jScrollPane1))

 .addContainerGap())

 );

 pack();

 }// </editor-fold>

 private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {

 // TODO add your handling code here:

 }

 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

 // TODO add your handling code here:

 }

 /\*\*

 \* @param

 \* args

 \* the

 \* command

 \* line

 \* arguments

 \*/

 public static void main(String args[]) {

 /\* Set the Nimbus look and feel \*/

 //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

 /\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

 \* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

 \*/

 try {

 for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

 if ("Nimbus".equals(info.getName())) {

 javax.swing.UIManager.setLookAndFeel(info.getClassName());

 break;

 }

 }

 } catch (ClassNotFoundException ex) {

 java.util.logging.Logger.getLogger(mainlogin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

 } catch (InstantiationException ex) {

 java.util.logging.Logger.getLogger(mainlogin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

 } catch (IllegalAccessException ex) {

 java.util.logging.Logger.getLogger(mainlogin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

 } catch (javax.swing.UnsupportedLookAndFeelException ex) {

 java.util.logging.Logger.getLogger(mainlogin.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

 }

 //</editor-fold>

 /\* Create and display the form \*/

 java.awt.EventQueue.invokeLater(new Runnable() {

 public void run() {

 new mainlogin().setVisible(true);

 }

 });

 }

 // Variables declaration - do not modify

 private javax.swing.JButton jButton1;

 private javax.swing.JButton jButton2;

 private javax.swing.JButton jButton3;

 private javax.swing.JButton jButton4;

 private javax.swing.JButton jButton5;

 private javax.swing.JButton jButton6;

 private javax.swing.JLabel jLabel1;

 private javax.swing.JLabel jLabel2;

 private javax.swing.JPanel jPanel1;

 private javax.swing.JPanel jPanel2;

 private javax.swing.JScrollPane jScrollPane1;

 private javax.swing.JTextArea jTextArea1;

 private javax.swing.JTextField jTextField1;

 private javax.swing.JTextField jTextField2;

 private javax.swing.JTextField jTextField3;

 private javax.swing.JTextField jTextField4;

 // End of variables declaration

}