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

}