JsonWebServiceClient.java

import java.awt.EventQueue;  
  
import javax.swing.JFrame;  
import javax.swing.JTextField;  
  
import org.json.JSONObject;  
import org.json.JSONTokener;  
  
import javax.swing.JLabel;  
import java.awt.Font;  
import java.io.FileReader;  
import java.io.IOException;  
  
import javax.swing.JButton;  
  
public class login {  
  
 private JFrame frame;  
 private JTextField textField1;  
 private JTextField textField2;  
 private JTextField textField3;  
 private JTextField textField4;  
 private JTextField textField5;  
  
 */\*\*  
 \* Launch the application.  
 \*/* public static void main(String[] args) {  
 EventQueue.invokeLater(new Runnable() {  
 public void run() {  
 try {  
 login window = new login();  
 window.frame.setVisible(true);  
 } catch (Exception e) {  
 e.printStackTrace();  
 }  
 }  
 });  
 }  
  
 */\*\*  
 \* Create the application.  
 \*/* public login() {  
 initialize();  
 }  
   
 private void searchLogin() {  
 String inputLogin = textField1.getText().trim();  
  
 if (inputLogin.isEmpty()) {  
 System.out.println("Login field is empty.");  
 return;  
 }  
  
 try {  
 FileReader reader = new FileReader("C:\\Users\\LENOVO\\eclipse-workspace\\DADlab5\\src\\DataJson.json");  
 JSONTokener tokener = new JSONTokener(reader);  
 JSONObject root = new JSONObject(tokener);  
  
 org.json.JSONArray usersArray = root.getJSONArray("arrUsers");  
  
 boolean found = false;  
  
 for (int i = 0; i < usersArray.length(); i++) {  
 JSONObject user = usersArray.getJSONObject(i);  
 if (user.getString("login").equalsIgnoreCase(inputLogin)) {  
 textField2.setText(user.getString("firstname"));  
 textField3.setText(user.getString("lastname"));  
 textField4.setText(user.getString("type"));  
 textField5.setText(user.getString("language"));  
 found = true;  
 break;  
 }  
 }  
  
 if (!found) {  
 System.out.println("User not found.");  
 textField2.setText("");  
 textField3.setText("");  
 textField4.setText("");  
 textField5.setText("");  
 }  
  
 reader.close();  
  
 } catch (IOException e) {  
 e.printStackTrace();  
 } catch (Exception e) {  
 System.out.println("Error parsing JSON: " + e.getMessage());  
 }  
 }  
  
  
  
 */\*\*  
 \* Initialize the contents of the frame.  
 \*/* private void initialize() {  
 frame = new JFrame();  
 frame.setBounds(100, 100, 450, 300);  
 frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);  
 frame.getContentPane().setLayout(null);  
   
 textField1 = new JTextField();  
 textField1.setBounds(121, 33, 96, 19);  
 frame.getContentPane().add(textField1);  
 textField1.setColumns(10);  
   
 textField2 = new JTextField();  
 textField2.setColumns(10);  
 textField2.setBounds(78, 81, 96, 19);  
 frame.getContentPane().add(textField2);  
   
 textField3 = new JTextField();  
 textField3.setColumns(10);  
 textField3.setBounds(78, 110, 96, 19);  
 frame.getContentPane().add(textField3);  
   
 textField4 = new JTextField();  
 textField4.setColumns(10);  
 textField4.setBounds(78, 139, 96, 19);  
 frame.getContentPane().add(textField4);  
   
 textField5 = new JTextField();  
 textField5.setColumns(10);  
 textField5.setBounds(78, 168, 96, 19);  
 frame.getContentPane().add(textField5);  
   
 JLabel lblNewLabel = new JLabel("Login:");  
 lblNewLabel.setFont(new Font("Tahoma", Font.BOLD, 12));  
 lblNewLabel.setBounds(68, 36, 45, 13);  
 frame.getContentPane().add(lblNewLabel);  
   
 JLabel lblPassword = new JLabel("Firstname");  
 lblPassword.setFont(new Font("Tahoma", Font.BOLD, 12));  
 lblPassword.setBounds(10, 83, 68, 13);  
 frame.getContentPane().add(lblPassword);  
   
 JLabel lblLastName = new JLabel("Last Name");  
 lblLastName.setFont(new Font("Tahoma", Font.BOLD, 12));  
 lblLastName.setBounds(10, 112, 68, 13);  
 frame.getContentPane().add(lblLastName);  
   
 JLabel lblType = new JLabel("Type");  
 lblType.setFont(new Font("Tahoma", Font.BOLD, 12));  
 lblType.setBounds(10, 142, 68, 13);  
 frame.getContentPane().add(lblType);  
   
 JLabel lblLanguage = new JLabel("Language");  
 lblLanguage.setFont(new Font("Tahoma", Font.BOLD, 12));  
 lblLanguage.setBounds(10, 171, 68, 13);  
 frame.getContentPane().add(lblLanguage);  
   
 JButton btnNewButton = new JButton("Search");  
 btnNewButton.setFont(new Font("Tahoma", Font.BOLD, 12));  
 btnNewButton.setBounds(233, 32, 85, 21);  
 btnNewButton.addActionListener(e -> searchLogin());  
 frame.getContentPane().add(btnNewButton);  
 }  
}