

# **Assistive Healthcare Application**

## **Final Report**

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# Problem Statement

In the modern era, there exists a set of common health conditions that occurs to a in our country. A lot of young and working professionals are unaware about the serious health conditions they may face due to the ignorance of their typical and modern lifestyle

Patients in several parts of the world suffer from common health conditions such as Diabetics, blood pressure and much more, which can be prevented during early monitoring. These health conditions can be a major deciding factor in the upcoming future.

The application has two core functionalists. The first functionality focuses on testing the individual over the body mass index. The body mass index is a measure of body fat based on the height and weight that applies to the adults. Body mass index test helps to find the category of physical fitness of the individual. The application also tests the mean arterial pressure which is a measure to analyze the average flow of blood pressure against the arteries one cycle. Blood sugar levels are tested and are determined whether the individual is diabetes. The application gathers input such as height weight and blood pressure and calculates their Body Mass Index and their Mean arterial pressure to display findings about their health.

# Review of Literature

**Meta analysis 1.** The main purpose behind building a Medical chatbot is to reduce the efforts taken in identifying the diseases in the health care sector and to improve the knowledge about the disease one possess. As seen in Prakhar Srivastava & Nishanth Singh's research work (2020)[1], Their chatbot systems gathers input from a user and analyse the diseases they may possess. Their chatbot owns an accuracy of sixty five percent. Their research work proved that a medical chat bot could be an efficient way to act as an active bridge between the medical world and the patients

**Meta analysis 2.** The study by Prithvi Vasireddy(2020) [2] focuses on the use of Robotic process automation by various applications by Healthify gets the input from the users such as height, weight, age, gender, target weight, medical conditions and much more. Then, the intelligent automation process the details and prepares a meal planner with the help of the recommendation framework implemented by the companies. The Automated diet proves to be an active edge to utilise the technology of cognitive learning to implement in the domain of healthcare.

**Meta analysis 3.** Attending the elderly and sick people may be a tiring and exhausting task. As seen in Jesus Alvarez and Guillermo Campos' research article (2018) [3] they have built an active nurse bot to attend the sick and elderly. The bot schedules a periodic test including vital signs like heartbeat, saturation, blood pressure and oxygen levels and updates them into the respective physicians. A report is generated at the end of the day for the follow-up. The nurse bot is a valuable prototype to the domain of nursing.

# Proposed System

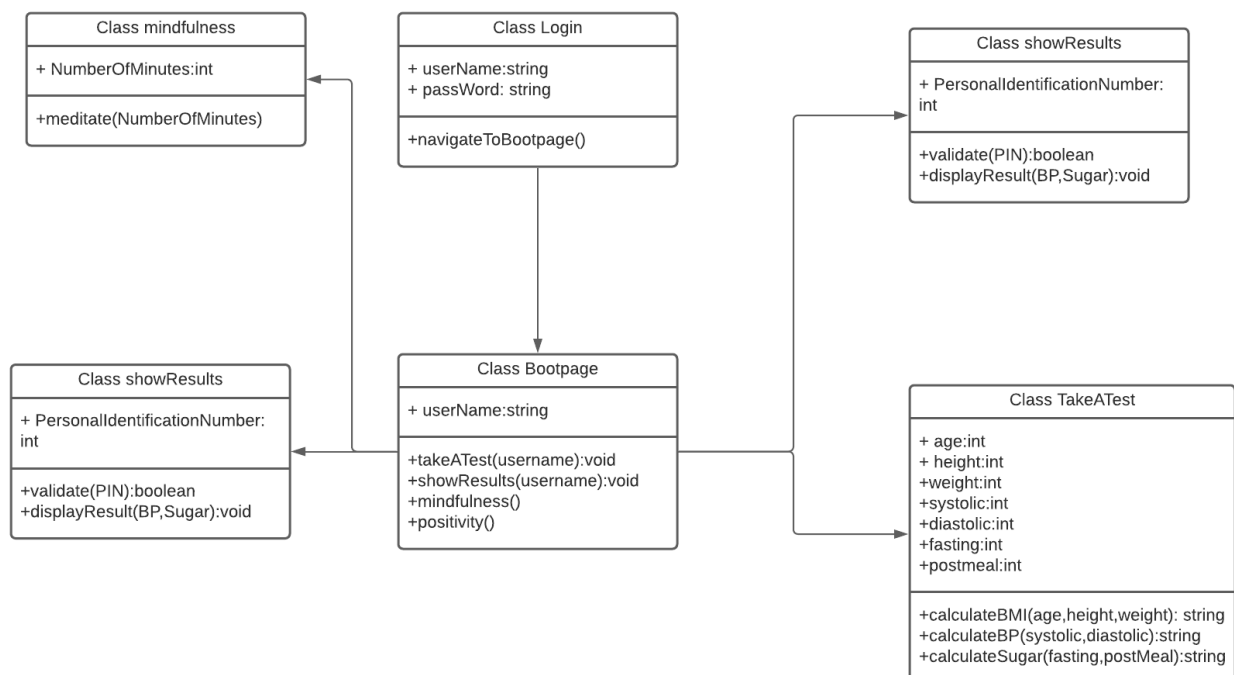
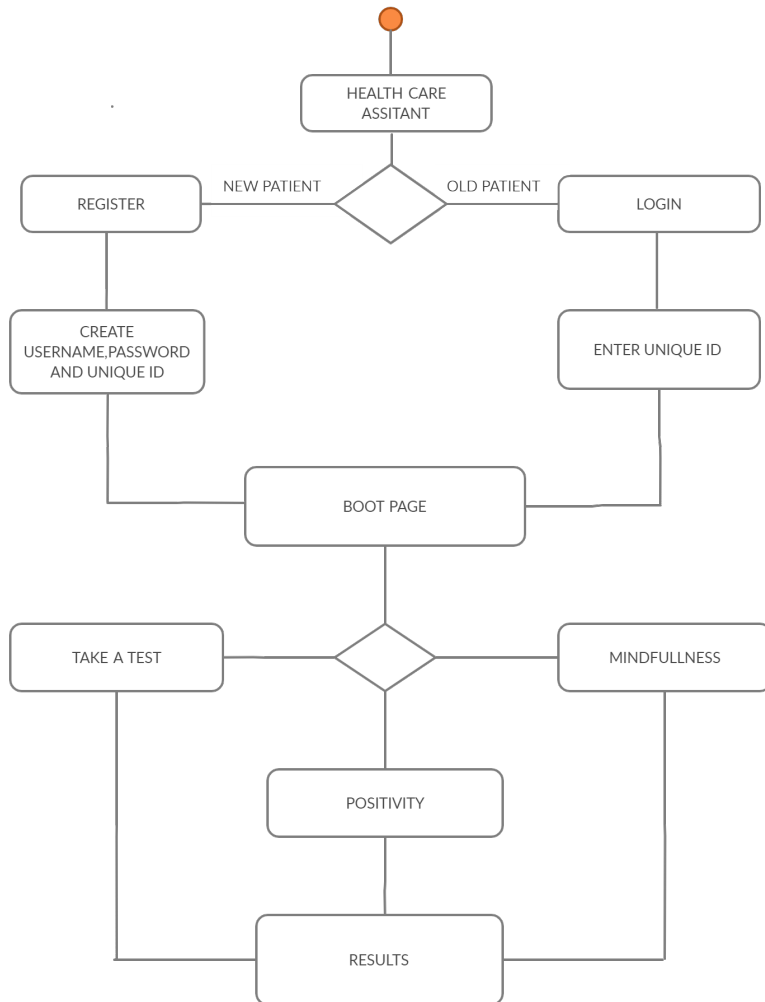
**Symbol hashing.** The application collects various health parameters and calculates the results based on the parameters. To ensure more security to the confidential reports, a new algorithm is proposed to ensure more security to the reports. A personal identification number is obtained from the user at the time of registration. The personal identification number goes through a series of hashing which encrypts every numerical character into a symbol. The symbol is then stored in the database.

During the time of recovering the reports, The given request of the personal identification number is hashed one more time and is compared to the existing hashed password. This ensures that no password is being un hashed during the time of decryption. Symbol hashing is a strong and powerful algorithm to enhance the security of the application

**Integration of features.** The application focuses on being an overall package in improving and tracking the mental and the physical well being of the user respectively. Every instruction is explained clearly to the user with the use of information button in the header of each functionality of the application. The application has a seamless flow, better security and enhanced visuals to support the understanding of the user.

**Design & Architecture.** The application is deigned according to the material design. It is a design language proposed by Google in the year two thousand and fourteen. The main design revolves around using a card Motif and seamless animation and depth in the application. A blue theme is maintained along the application to ensure the pleasantness of the application. The system design is based on the Model - view architecture.

# Diagrams



## Module Description

1. **Accounts Module.** The registration module involves in creating a new user and creating an instance in the database of the application. The Login module verifies the user and directs the user to the boot page of the application.
2. **Tests & Results Module.** This module gathers various input of the user such as height, weight and age and calculates the body mass index of the user. The second test the user undergoes is the test for blood sugar and blood pressure.
3. **Mental - wellness module.** This module helps in improving the mental wellness of a person. The module has two core functionalities namely mindfulness and positivity. Mindfulness is the act of being conscious or being aware. The app sets a track according to the users preferences and let them be mindful. The positivity application gets the mood of the person and displays positive quote and articles to improve the overall morale of the user

# Coding

## Login.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.showMessageDialog;

/**
 *
 * @author gygshwr
 */
public class Login extends javax.swing.JFrame {

    /**
     * Creates new form Login
     */
    public Login() {
        initComponents();
        setLocationRelativeTo(null);
    }

    String user;
    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        LoginPanel = new javax.swing.JPanel();
```

```

jPanel1 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
Login = new javax.swing.JButton();
UserName = new javax.swing.JTextField();
PassWord = new javax.swing.JPasswordField();
SignUpLink = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(255, 255, 255));
setName("LoginFrame"); // NOI18N
setPreferredSize(new java.awt.Dimension(500, 700));

LoginPanel.setBackground(new java.awt.Color(255, 255, 255));

jPanel1.setBackground(new java.awt.Color(56, 175, 238));

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel1.setText("Health Aid");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel1)
        .addContainerGap(130, Short.MAX_VALUE))
    );
jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(17, Short.MAX_VALUE))
    );

jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

```



```

jLabel2.setText("UserName");

jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("PassWord");

Login.setBackground(new java.awt.Color(56, 175, 238));
Login.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Login.setForeground(new java.awt.Color(255, 255, 255));
Login.setText("Login");
Login.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        LoginMouseClicked(evt);
    }
});

UserName.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
UserName.setHorizontalAlignment(javax.swing.JTextField.CENTER);
UserName.setBorder(new javax.swing.border.LineBorder(new
java.awt.Color(56, 175, 238), 1, true));

PassWord.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
PassWord.setHorizontalAlignment(javax.swing.JTextField.CENTER);
PassWord.setBorder(new javax.swing.border.LineBorder(new
java.awt.Color(56, 175, 238), 1, true));

SignUpLink.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
SignUpLink.setForeground(new java.awt.Color(56, 175, 238));
SignUpLink.setText("New User? Sign Up");
SignUpLink.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        SignUpLinkMouseClicked(evt);
    }
});

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel5.setText("Login");

jButton1.setBackground(new java.awt.Color(238, 196, 129));
jButton1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jButton1.setText("i");
jButton1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton1MouseClicked(evt);
    }
});

```

```

        javax.swing.GroupLayout LoginPanelLayout = new
javax.swing.GroupLayout(LoginPanel);
        LoginPanel.setLayout(LoginPanelLayout);
        LoginPanelLayout.setHorizontalGroup(

LoginPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanell1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addGroup(LoginPanelLayout.createSequentialGroup()
                .addGroup(LoginPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(LoginPanelLayout.createSequentialGroup()
                        .addGroup(LoginPanelLayout.createSequentialGroup()
                            .addComponent(SignUpLink)
                            .addComponent(jLabel3)
                            .addComponent(jLabel2)
                            .addComponent(PassWord,
javax.swing.GroupLayout.DEFAULT_SIZE, 407, Short.MAX_VALUE)
                            .addComponent(UserName))
                        .addGroup(LoginPanelLayout.createSequentialGroup()
                            .addComponent(jLabel5)
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))))
                    .addGroup(LoginPanelLayout.createSequentialGroup()
                        .addGap(161, 161, 161)
                        .addComponent(Login,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGap(35, 35, 35))
            );
        LoginPanelLayout.setVerticalGroup(

LoginPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(LoginPanelLayout.createSequentialGroup()

```

```

        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(44, 44, 44)
        .addGroup(LoginPanelLayout.createParallelGroup(javax.swing.GroupLayo
ut.Alignment.LEADING)
        .addComponent(jLabel5)
        .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(59, 59, 59)
        .addComponent(jLabel2)
        .addGap(18, 18, 18)
        .addComponent(UserName,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(29, 29, 29)
        .addComponent(jLabel3)
        .addGap(18, 18, 18)
        .addComponent(PassWord, javax.swing.GroupLayout.PREFERRED_SIZE,
50, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(52, 52, 52)
        .addComponent(Login, javax.swing.GroupLayout.PREFERRED_SIZE, 61,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATE
D, 66, Short.MAX_VALUE)
        .addComponent(SignUpLink)
        .addGap(53, 53, 53))
    );

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(LoginPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(LoginPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

    pack();

```

```
}// </editor-fold>
```

```
private void LoginMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    try {
        String url = "jdbc:h2:~/test";
        Connection C =
DriverManager.getConnection(url,"Healthcare","Healthcare");

        user = UserName.getText();
        String pwd = PassWord.getText();
        String query = "Select count(*),Name from Login where username =
""+user+"" and "+" password = ""+pwd+""";
        Statement S = C.createStatement();
        ResultSet RS = S.executeQuery(query);

        while(RS.next()) {
            String name = RS.getString("Name");
            if(RS.getInt("count(*)") != 0 ) {
                showMessageDialog(this,"\\t\\t Welcome, "+name,"Login
Successful",JOptionPane.INFORMATION_MESSAGE);
                BootPage B = new BootPage(user);
                this.dispose();
                B.setVisible(true);
            }
            else {
                showMessageDialog(this,"\\t\\t Wrong username or Password","Login
Unsuccessful",JOptionPane.ERROR_MESSAGE);
            }
        }
        S.close();
        C.close();
    } catch (SQLException E) {System.out.println(E); }
}

private void jButton1MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    showMessageDialog(this, "Welcome to Health Aid! \\n\\n Enter your username
and password.\\n Click Sign up for new registrations","INFO
PANEL",JOptionPane.INFORMATION_MESSAGE);
}

private void SignUpLinkMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
```

```

    Register R = new Register();
    R.setVisible(true);
    this.dispose();

}

/**
 * @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(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Login.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Login.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 Login().setVisible(true);
    }
});
}

```

```

// Variables declaration - do not modify
private javax.swing.JButton Login;
private javax.swing.JPanel LoginPanel;
private javax.swing.JPasswordField PassWord;
private javax.swing.JLabel SignUpLink;
private javax.swing.JTextField UserName;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel5;
private javax.swing.JPanel jPanel1;
// End of variables declaration
}

```

## Register.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.showMessageDialog;
/**
 *
 * @author gygshwr
 */
public class Register extends javax.swing.JFrame {

    /**
     * Creates new form Register
     */
    public Register() {
        initComponents();
        setLocationRelativeTo(null);
    }

    public String encrypt(String PIN) {
        String newPin = "";
        int len = PIN.length();

        for(int i = 0; i < len; i++) {

            switch(PIN.charAt(i)) {

                case '1': {
                    newPin = newPin + "+";
                    break;
                }
                case '2': {
```

```

        newPin = newPin + "=";
        break;
    }
    case '3': {
        newPin = newPin + "-";
        break;
    }
    case '4': {
        newPin = newPin + "_";
        break;
    }
    case '5': {
        newPin = newPin + ")";
        break;
    }
    case '6': {
        newPin = newPin + "(";
        break;
    }
    case '7': {
        newPin = newPin + "*";
        break;
    }
    case '8': {
        newPin = newPin + "&";
        break;
    }
    case '9': {
        newPin = newPin + "^";
        break;
    }
    case '0': {
        newPin = newPin + "%";
        break;
    }

    default: {
        newPin = newPin + "$";
        break;
    }
}

return newPin;

```



```

}
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jPanel4 = new javax.swing.JPanel();
    jLabel3 = new javax.swing.JLabel();
    jPanel5 = new javax.swing.JPanel();
    jLabel4 = new javax.swing.JLabel();
    jPanel1 = new javax.swing.JPanel();
    jPanel3 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    UserName = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    PassWord = new javax.swing.JPasswordField();
    jLabel7 = new javax.swing.JLabel();
    Name = new javax.swing.JTextField();
    PIN = new javax.swing.JPasswordField();
    jLabel8 = new javax.swing.JLabel();
    BackLogin = new javax.swing.JButton();
    Register = new javax.swing.JButton();
    Check = new javax.swing.JButton();

    jPanel2.setBackground(new java.awt.Color(56, 175, 238));

    jLabel1.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel1.setText("Health Aid");

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

    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
            .addGap(119, 119, 119)
            .addComponent(jLabel1)

```

```

        .addContainerGap(130, Short.MAX_VALUE))
    );
    JPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(17, Short.MAX_VALUE))
    );

    JPanel4.setBackground(new java.awt.Color(56, 175, 238));

    jLabel3.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel3.setText("Health Aid");

    JPanel5.setBackground(new java.awt.Color(56, 175, 238));

    jLabel4.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel4.setText("Health Aid");

    javax.swing.GroupLayout jPanel5Layout = new
javax.swing.GroupLayout(jPanel5);
    jPanel5.setLayout(jPanel5Layout);
    jPanel5Layout.setHorizontalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel5Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel4)
        .addContainerGap(130, Short.MAX_VALUE))
    );
    jPanel5Layout.setVerticalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel5Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(17, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout jPanel4Layout = new
javax.swing.GroupLayout(jPanel4);

```

```

jPanel4.setLayout(jPanel4Layout);
jPanel4Layout.setHorizontalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel4Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel3)
        .addContainerGap(130, Short.MAX_VALUE))
    .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
        .addGroup(jPanel4Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jPanel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addContainerGap()))
    );
jPanel4Layout.setVerticalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel4Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(17, Short.MAX_VALUE))
    .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
        .addGroup(jPanel4Layout.createSequentialGroup()
            .addGap(0, 0, Short.MAX_VALUE)
            .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(0, 0, Short.MAX_VALUE)))
    );

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(255, 255, 255));
setPreferredSize(new java.awt.Dimension(500, 700));

jPanel1.setBackground(new java.awt.Color(255, 255, 255));

jPanel3.setBackground(new java.awt.Color(56, 175, 238));

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel2.setText("Health Aid");

```

```

        javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel2)
        .addGap(130, Short.MAX_VALUE))
    );
        jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(17, Short.MAX_VALUE))
    );

        jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        jLabel5.setText("UserName");

        UserName.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        UserName.setHorizontalAlignment(javax.swing.JTextField.CENTER);
        UserName.setBorder(new javax.swing.border.LineBorder(new
java.awt.Color(56, 175, 238), 1, true));

        jLabel6.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        jLabel6.setText("PassWord");

        PassWord.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
        PassWord.setHorizontalAlignment(javax.swing.JTextField.CENTER);
        PassWord.setBorder(new javax.swing.border.LineBorder(new
java.awt.Color(56, 175, 238), 1, true));

        jLabel7.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        jLabel7.setText("Name");

        Name.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
        Name.setHorizontalAlignment(javax.swing.JTextField.CENTER);
        Name.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(56,
175, 238), 1, true));

```

```

PIN.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
PIN.setHorizontalAlignment(javax.swing.JTextField.CENTER);
PIN.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(56, 175,
238), 1, true));

```

```

jLabel8.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel8.setText("Personal Identification Number");

```

```

BackLogin.setBackground(new java.awt.Color(238, 180, 114));
BackLogin.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
BackLogin.setText("Back To Login");
BackLogin.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        BackLoginMouseClicked(evt);
    }
});

```

```

Register.setBackground(new java.awt.Color(102, 255, 102));
Register.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Register.setText("Register");
Register.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        RegisterMouseClicked(evt);
    }
});

```

```

Check.setBackground(new java.awt.Color(255, 153, 153));
Check.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
Check.setText("Check Availability");
Check.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        CheckMouseClicked(evt);
    }
});

```

```

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

```

```

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(30, 30, 30)

```

```

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING, false)
            .addComponent(jLabel8)
            .addComponent(jLabel7)
            .addComponent(Name, javax.swing.GroupLayout.DEFAULT_SIZE,
407, Short.MAX_VALUE)
            .addComponent(jLabel6)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel5)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RE
LATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(Check,
javax.swing.GroupLayout.PREFERRED_SIZE, 199,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addComponent(PassWord)
                .addComponent(UserName, javax.swing.GroupLayout.DEFAULT_SIZE,
407, Short.MAX_VALUE)
                .addComponent(PIN)
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                    .addComponent(Register,
javax.swing.GroupLayout.PREFERRED_SIZE, 169,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RE
LATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(BackLogin,
javax.swing.GroupLayout.PREFERRED_SIZE, 169,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(39, 39, 39)
        .addComponent(jLabel7)
        .addGap(18, 18, 18)
        .addComponent(Name, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

```

```

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
        .addComponent(jLabel5)
        .addComponent(Check, javax.swing.GroupLayout.DEFAULT_SIZE, 35,
Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNREL
ATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(UserName,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jLabel6)
        .addGap(18, 18, 18)
        .addComponent(PassWord, javax.swing.GroupLayout.PREFERRED_SIZE,
50, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jLabel8)
        .addGap(18, 18, 18)
        .addComponent(PIN, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(54, 54, 54)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
        .addComponent(BackLogin,
javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(Register,
javax.swing.GroupLayout.PREFERRED_SIZE, 53,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(33, 33, 33))
    );

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

```

```
    pack();  
} // </editor-fold>
```

```
private void BackLoginMouseClicked(java.awt.event.MouseEvent evt) {  
    // TODO add your handling code here:  
    Login L = new Login();  
    L.setVisible(true);  
    this.dispose();  
  
}
```

```
private void RegisterMouseClicked(java.awt.event.MouseEvent evt) {  
    // TODO add your handling code here:  
    String name = Name.getText();  
    String user = UserName.getText();  
    String pwd = PassWord.getText();  
    String Pin = PIN.getText();  
    String pin = encrypt(Pin);
```

```
        try {  
            String url = "jdbc:h2:~/test";  
            Connection C =  
DriverManager.getConnection(url,"Healthcare","Healthcare");
```

```
            String query = "INSERT INTO LOGIN VALUES  
(\""+name+"\", \""+user+"\", \""+pwd+"\", \""+pin+"\" );";  
            System.out.println(query);  
            Statement S = C.createStatement();  
            S.executeUpdate(query);
```

```
                showMessageDialog(this, "Successfully  
Registered!", "ALERT", JOptionPane.INFORMATION_MESSAGE);
```

```
            C.close();  
            S.close();  
        } catch (SQLException E) {System.out.println(E); }  
    }
```

```
private void CheckMouseClicked(java.awt.event.MouseEvent evt) {  
    // TODO add your handling code here:  
    String user = UserName.getText();
```



```

        try {
            String url = "jdbc:h2:~/test";
            Connection C =
DriverManager.getConnection(url,"Healthcare","Healthcare");
            String query = " Select count(name) from Login where username = '" +user
+"";";
            System.out.println(query);
            Statement S = C.createStatement();
            ResultSet RS = S.executeQuery(query);

            int count;
            while(RS.next()) {
                count = RS.getInt("count(name)");
                if(count == 0)
                    showMessageDialog(this, user+" is
available!", "ALERT", JOptionPane.INFORMATION_MESSAGE);
                else
                    showMessageDialog(this, user+ "is not available!",
"ALERT",JOptionPane.ERROR_MESSAGE);

            }

        } catch (SQLException E) {System.out.println(E); }

    }

/**
 * @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(Register.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Register.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Register.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Register.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 Register().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton BackLogin;
private javax.swing.JButton Check;
private javax.swing.JTextField Name;
private javax.swing.JPasswordField PIN;
private javax.swing.JPasswordField PassWord;
private javax.swing.JButton Register;
private javax.swing.JTextField UserName;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;

```

```
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel2;  
private javax.swing.JPanel jPanel3;  
private javax.swing.JPanel jPanel4;  
private javax.swing.JPanel jPanel5;  
// End of variables declaration  
}
```

## Bootpage.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

/**
 *
 * @author gygshwr
 */
public class BootPage extends javax.swing.JFrame {

    /**
     * Creates new form BootPage
     */
    public BootPage() {
        initComponents();
        setLocationRelativeTo(null);
    }

    String user;

    public BootPage(String user) {

        initComponents();
        setLocationRelativeTo(null);
        UserLabel.setText(user);

    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        BootPanel = new javax.swing.JPanel();
    }
}
```

```

jPanel2 = new javax.swing.JPanel();
jLabel2 = new javax.swing.JLabel();
Results = new javax.swing.JButton();
Minfulness = new javax.swing.JButton();
Take = new javax.swing.JButton();
Positivity = new javax.swing.JButton();
History = new javax.swing.JButton();
Exit = new javax.swing.JButton();
UserLabel = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();

jPanel1.setBackground(new java.awt.Color(56, 175, 238));

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel1.setText("Health Aid");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel1)
        .addGap(130, Short.MAX_VALUE))
    );
jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(17, Short.MAX_VALUE))
    );

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

BootPanel.setBackground(new java.awt.Color(255, 255, 255));

jPanel2.setBackground(new java.awt.Color(56, 175, 238));

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel2.setText("Health Aid");

```

```

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel2)
                .addGap(130, Short.MAX_VALUE))
            );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(17, 17, 17)
                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(17, Short.MAX_VALUE))
            );

Results.setBackground(new java.awt.Color(255, 255, 51));
Results.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Results.setText("<html>Check<br>Results<html>");
Results.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));
Results.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        ResultsMouseClicked(evt);
    }
});

Minfulness.setBackground(new java.awt.Color(62, 201, 238));
Minfulness.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Minfulness.setText("Mindfulness");
Minfulness.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1,
1));
Minfulness.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        MinfulnessMouseClicked(evt);
    }
});

Take.setBackground(new java.awt.Color(255, 102, 102));
Take.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

```

```

Take.setText("<html> Take A Test<html>");
Take.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));
Take.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        TakeMouseClicked(evt);
    }
});

```

```

Positivity.setBackground(new java.awt.Color(102, 255, 102));
Positivity.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Positivity.setText("Positivity");
Positivity.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));
Positivity.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        PositivityMouseClicked(evt);
    }
});

```

```

History.setBackground(new java.awt.Color(153, 153, 255));
History.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
History.setText("History");
History.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));
History.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        HistoryMouseClicked(evt);
    }
});

```

```

Exit.setBackground(new java.awt.Color(255, 51, 51));
Exit.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Exit.setText("Exit");
Exit.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));
Exit.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        ExitMouseClicked(evt);
    }
});

```

```

UserLabel.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
UserLabel.setText("jLabel1");

```

```

jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("Welcome,");

```

```

    javax.swing.GroupLayout BootPanelLayout = new
javax.swing.GroupLayout(BootPanel);
    BootPanel.setLayout(BootPanelLayout);
    BootPanelLayout.setHorizontalGroup(

BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(BootPanelLayout.createSequentialGroup())
    .addGroup(BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(BootPanelLayout.createSequentialGroup())
    .addGap(77, 77, 77)
    .addGroup(BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
BootPanelLayout.createSequentialGroup())
    .addComponent(History,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(27, 27, 27)
    .addComponent(Exit,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(BootPanelLayout.createSequentialGroup())
    .addGroup(BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(Take,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(Minfulness,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(27, 27, 27)
    .addGroup(BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(Results,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(Positivity,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE))))))
    .addGroup(BootPanelLayout.createSequentialGroup())
    .addGap(27, 27, 27)

```



```

        .addComponent(jLabel3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRE
LATED)
        .addComponent(UserLabel)))
    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    BootPanelLayout.setVerticalGroup(

BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(BootPanelLayout.createSequentialGroup()
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(35, 35, 35)
        .addGroup(BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel3)
            .addComponent(UserLabel))
        .addGap(27, 27, 27)
        .addGroup(BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(Take, javax.swing.GroupLayout.PREFERRED_SIZE,
150, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(Results, javax.swing.GroupLayout.PREFERRED_SIZE,
150, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNREL
ATED)
            .addGroup(BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(Minfulness,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(Positivity,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addGroup(BootPanelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(History, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(Exit, javax.swing.GroupLayout.PREFERRED_SIZE,
150, javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addContainerGap(36, Short.MAX_VALUE))
    )

```

```

    );

    javax.swing.GroupLayout layout = new
    javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(BootPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(BootPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

    pack();
} // </editor-fold>

private void MinfulnessMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Meditate M = new Meditate();
    M.setVisible(true);
    this.dispose();
}

private void PositivityMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Positivity P = new Positivity();
    P.setVisible(true);
    this.dispose();
}

private void TakeMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:

    user = UserLabel.getText();
    BMI B = new BMI();
    B.setVisible(true);
    this.dispose();
}

private void HistoryMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    user = UserLabel.getText();

```

```

        History H = new History(user);
        H.setVisible(true);
        this.dispose();
    }

    private void ExitMouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        this.dispose();
    }

    private void ResultsMouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        String user = UserLabel.getText();
        ReportCheck R = new ReportCheck(user);
        R.setVisible(true);
        this.dispose();
    }

    /**
     * @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(BootPage.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

```

```

java.util.logging.Logger.getLogger(BootPage.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BootPage.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BootPage.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 BootPage().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JPanel BootPanel;
private javax.swing.JButton Exit;
private javax.swing.JButton History;
private javax.swing.JButton Minfulness;
private javax.swing.JButton Positivity;
private javax.swing.JButton Results;
private javax.swing.JButton Take;
private javax.swing.JLabel UserLabel;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
// End of variables declaration
}

```

## BMI.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.showMessageDialog;

/**
 *
 * @author gygshwr
 */
public class BMI extends javax.swing.JFrame {

    /**
     * Creates new form BMI
     */
    public BMI() {
        initComponents();
        setLocationRelativeTo(null);
    }

    public String BMIResults(float BMI) {

        if(BMI < 18.5)
            return "Under Weight";
        else if(BMI >= 18.5 && BMI <24.9)
            return "Normal";
        else if(BMI >= 24.9 && BMI <29.9)
            return "Over Weight";
        else if(BMI > 30.0)
            return "Obese";
        return null;
    }
}
```

```

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel2 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    jLabel5 = new javax.swing.JLabel();
    jPanel1 = new javax.swing.JPanel();
    jPanel3 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    Info = new javax.swing.JButton();
    jLabel6 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    UserName = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    Age = new javax.swing.JTextField();
    jLabel7 = new javax.swing.JLabel();
    Height = new javax.swing.JTextField();
    jLabel8 = new javax.swing.JLabel();
    Weight = new javax.swing.JTextField();
    Back = new javax.swing.JButton();
    Next = new javax.swing.JButton();

    jPanel2.setBackground(new java.awt.Color(56, 175, 238));

    jLabel1.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel1.setText("Health Aid");

    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(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                    .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                )
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(Info, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel6, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel3, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(UserName, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(Age, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel7, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(Height, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(jLabel8, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(Weight, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(Back, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(119, 119, 119)
                .addComponent(Next, javax.swing.GroupLayout.DEFAULT_SIZE, 119, Short.MAX_VALUE)
                .addContainerGap()
            )
        )
        .addContainerGap()
    );
}

```

```

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(17, Short.MAX_VALUE))
    );

jButton1.setBackground(new java.awt.Color(238, 196, 129));
jButton1.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jButton1.setText("i");
jButton1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton1MouseClicked(evt);
    }
});

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel5.setText("Login");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jPanel1.setBackground(new java.awt.Color(255, 255, 255));

jPanel3.setBackground(new java.awt.Color(56, 175, 238));

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel2.setText("Health Aid");

javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel2)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
jPanel3Layout.setVerticalGroup(

```

```

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(17, Short.MAX_VALUE))
    );

Info.setBackground(new java.awt.Color(238, 196, 129));
Info.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
Info.setText("i");
Info.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        InfoMouseClicked(evt);
    }
});

jLabel6.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel6.setText("Take A Test");

jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("UserName");

UserName.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
UserName.setHorizontalAlignment(javax.swing.JTextField.CENTER);
UserName.setBorder(new javax.swing.border.LineBorder(new
java.awt.Color(56, 175, 238), 1, true));

jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel4.setText("Age");

Age.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Age.setHorizontalAlignment(javax.swing.JTextField.CENTER);
Age.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(56, 175,
238), 1, true));

jLabel7.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel7.setText("Height (in Cm(s))");

Height.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Height.setHorizontalAlignment(javax.swing.JTextField.CENTER);
Height.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(56,
175, 238), 1, true));

```



```
jLabel8.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel8.setText("Weight (in Kg(s))");
```

```
Weight.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Weight.setHorizontalAlignment(javax.swing.JTextField.CENTER);
Weight.setBorder(new javax.swing.border.LineBorder(new java.awt.Color(56,
175, 238), 1, true));
```

```
Back.setBackground(new java.awt.Color(255, 102, 102));
Back.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Back.setText("Back");
Back.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        BackMouseClicked(evt);
    }
});
```

```
Next.setBackground(new java.awt.Color(102, 225, 102));
Next.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Next.setText("Next");
Next.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        NextMouseClicked(evt);
    }
});
```

```
javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(34, 34, 34)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel3)
                .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
```

```

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.
out.Alignment.TRAILING)
        .addComponent(Username,
javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(Age)
        .addComponent(Height)
        .addComponent(Weight)
        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup())
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.Grou
pLayout.Alignment.TRAILING)
        .addComponent(jLabel4,
javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel7,
javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel8,
javax.swing.GroupLayout.Alignment.LEADING))
        .addGap(0, 0, Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(0, 0, Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.Grou
pLayout.Alignment.TRAILING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(Next,
javax.swing.GroupLayout.PREFERRED_SIZE, 167,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(88, 88, 88)
        .addComponent(Back,
javax.swing.GroupLayout.PREFERRED_SIZE, 167,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jLabel6)
        .addGap(171, 171, 171)
        .addComponent(Info,
javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))))))
        .addGap(44, 44, 44))))
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addGap(13, 13, 13)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(jLabel6)
            .addComponent(Info, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(10, 10, 10)
        .addComponent(jLabel3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNREL
ATED)
        .addComponent(Username,
javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jLabel4)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNREL
ATED)
        .addComponent(Age, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jLabel7)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNREL
ATED)
        .addComponent(Height, javax.swing.GroupLayout.PREFERRED_SIZE,
50, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jLabel8)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNREL
ATED)
        .addComponent(Weight, javax.swing.GroupLayout.PREFERRED_SIZE,
50, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATE
D, 55, Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(Next, javax.swing.GroupLayout.PREFERRED_SIZE,
58, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(Back, javax.swing.GroupLayout.PREFERRED_SIZE,
58, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(23, 23, 23))
    );

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

```

```

        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );

        pack();
    } // </editor-fold>

```

```

private void jButton1MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    showMessageDialog(this, "Welcome to Health Aid! \n\n Enter your username
and password.\n Click Sign up for new registrations", "INFO
PANEL", JOptionPane.INFORMATION_MESSAGE);
}

```

```

private void InfoMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    showMessageDialog(this, "Welcome to Health Aid! \n\n Enter the required
details \n To generate your health report.", "INFO
PANEL", JOptionPane.INFORMATION_MESSAGE);
}

```

```

private void BackMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    BootPage B = new BootPage();
    B.setVisible(true);
    this.dispose();
}

```

```

private void NextMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    String user = UserName.getText();
    String age = Age.getText();
    float height = Float.parseFloat(Height.getText());
    float weight = Float.parseFloat(Weight.getText());

    float BMI = (weight / ((height/100) * (height/100)));
    String result = BMIResults(BMI);
    System.out.println(result);
}

```

```

try {
    String url = "jdbc:h2:~/test";
    Connection C =
DriverManager.getConnection(url,"Healthcare","Healthcare");
    String query = "INSERT INTO BMIREPORT VALUES (" +user
                    +"," +age +","
                    +Float.toString(height)
                    +"," +Float.toString(weight)
                    +"," +(BMI)
                    + " , '"+result+ "'");";

    System.out.println(query);
    Statement S = C.createStatement();
    S.executeUpdate(query);
}

catch (SQLException e) { System.out.println(e); }

General G = new General(user);
G.setVisible(true);
this.dispose();

}

/**
 * @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(BMI.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(BMI.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(BMI.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(BMI.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 BMI().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JTextField Age;
private javax.swing.JButton Back;
private javax.swing.JTextField Height;
private javax.swing.JButton Info;
private javax.swing.JButton Next;
private javax.swing.JTextField UserName;
private javax.swing.JTextField Weight;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;

```

```
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel2;  
private javax.swing.JPanel jPanel3;  
// End of variables declaration  
}
```

## General.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.showMessageDialog;
/**
 *
 * @author gygshwr
 */
public class General extends javax.swing.JFrame {

    /**
     * Creates new form General
     */
    public General() {
        initComponents();
        setLocationRelativeTo(null);
    }

    public General(String para) {
        initComponents();
        UserText.setText(para);
        setLocationRelativeTo(null);
    }

    public String BP (float systolic, float diastolic) {

        float MAP = ((systolic + (2*diastolic)) / 3);

        if(MAP < 60)
            return ("Low MAP");
        else if(MAP >= 60 && MAP <= 100)
            return ("Normal MAP");
    }
}
```



```

        else if( MAP > 100)
            return ("High MAP");

        return null;
    }

    public String sugar(float fasting, float postMeal) {

        if((fasting >=70 && fasting <=100) && (postMeal >=70 && postMeal < 140))
            return "Non - Diabetic";
        else if((fasting >=100 && fasting <=125) && (postMeal >=140 && postMeal
<200))
            return "Pre - Diabetic";
        else if(fasting > 125 && postMeal >= 200)
            return "Diabetic";

        return null;

    }
    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jScrollPane1 = new javax.swing.JScrollPane();
        jTextArea1 = new javax.swing.JTextArea();
        jLabel1 = new javax.swing.JLabel();
        UserLabel = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();
        jPanel3 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        UserText = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        Diastolic = new javax.swing.JTextField();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        Systolic = new javax.swing.JTextField();
    }

```

```

PostMeal = new javax.swing.JTextField();
Fasting = new javax.swing.JTextField();
Finish = new javax.swing.JButton();
Info = new javax.swing.JButton();

jTextArea1.setColumns(20);
jTextArea1.setRows(5);
jScrollPane1.setViewportView(jTextArea1);

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel1.setText("Welcome,");

UserLabel.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
UserLabel.setText("jLabel1");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jPanel1.setBackground(new java.awt.Color(255, 255, 255));

jPanel3.setBackground(new java.awt.Color(56, 175, 238));

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel2.setText("Health Aid");

javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
jPanel3.setLayout(jPanel3Layout);
jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel2)
        .addGap(jPanel3Layout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(jPanel3Layout.DEFAULT_SIZE, Short.MAX_VALUE))
    );

```

```

jLabel3.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
jLabel3.setForeground(new java.awt.Color(102, 102, 102));
jLabel3.setText("Blood Sugar");

UserText.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
UserText.setText("jLabel1");

jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel4.setText("Current user :");

jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel5.setText("Diastolic");

jLabel6.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel6.setText("Systolic ");

Diastolic.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Diastolic.setHorizontalAlignment(javax.swing.JTextField.CENTER);
Diastolic.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(51, 153, 255)));

jLabel7.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
jLabel7.setForeground(new java.awt.Color(102, 102, 102));
jLabel7.setText("Blood Pressure");

jLabel8.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel8.setText("Fasting");

jLabel9.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel9.setText("Post Meal");

Systolic.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Systolic.setHorizontalAlignment(javax.swing.JTextField.CENTER);
Systolic.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(51, 153, 255)));

PostMeal.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
PostMeal.setHorizontalAlignment(javax.swing.JTextField.CENTER);
PostMeal.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(51, 153, 255)));

Fasting.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Fasting.setHorizontalAlignment(javax.swing.JTextField.CENTER);

```

```
Fasting.setBorder(javax.swing.BorderFactory.createLineBorder(new  
java.awt.Color(51, 153, 255)));
```

```
Finish.setBackground(new java.awt.Color(102, 225, 102));  
Finish.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N  
Finish.setText("Finish");  
Finish.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        FinishMouseClicked(evt);  
    }  
});
```

```
Info.setBackground(new java.awt.Color(238, 196, 129));  
Info.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N  
Info.setText("i");  
Info.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        InfoMouseClicked(evt);  
    }  
});
```

```
javax.swing.GroupLayout jPanel1Layout = new  
javax.swing.GroupLayout(jPanel1);  
jPanel1.setLayout(jPanel1Layout);  
jPanel1Layout.setHorizontalGroup(
```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addComponent(jPanel3, javax.swing.GroupLayout.Alignment.TRAILING,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)  
    .addGroup(jPanel1Layout.createSequentialGroup()  
        .addGap(156, 156, 156)  
        .addComponent(Finish, javax.swing.GroupLayout.PREFERRED_SIZE,  
186, javax.swing.GroupLayout.PREFERRED_SIZE)  
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,  
Short.MAX_VALUE))  
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
jPanel1Layout.createSequentialGroup()  
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A  
lignment.TRAILING)  
            .addGroup(jPanel1Layout.createSequentialGroup()  
                .addGap(0, 0, Short.MAX_VALUE)  
                .addComponent(Info, javax.swing.GroupLayout.PREFERRED_SIZE,  
40, javax.swing.GroupLayout.PREFERRED_SIZE)  
            .addGroup(jPanel1Layout.createSequentialGroup()
```

```

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(29, 29, 29)
                .addComponent(jLabel4)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(UserText))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(28, 28, 28)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel8)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                        .addComponent(jLabel6)
                        .addComponent(jLabel3,
                            javax.swing.GroupLayout.DEFAULT_SIZE,
                            javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(Systolic,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 178,
                            javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addComponent(Fasting,
                            javax.swing.GroupLayout.PREFERRED_SIZE, 178,
                            javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(jLabel7))))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 79, Short.MAX_VALUE)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(PostMeal,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 178,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel5)
                    .addComponent(Diastolic,
                        javax.swing.GroupLayout.PREFERRED_SIZE, 178,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel9))))
            .addGap(37, 37, 37))
    );
    jPanel1Layout.setVerticalGroup(
        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()

```

```

        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(UserText)
            .addComponent(jLabel4)
            .addComponent(Info, javax.swing.GroupLayout.PREFERRED_SIZE,
40, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(36, 36, 36)
        .addComponent(jLabel7)
        .addGap(18, 18, 18)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(jLabel5)
            .addComponent(jLabel6))
        .addGap(18, 18, 18)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(Diastolic,
javax.swing.GroupLayout.PREFERRED_SIZE, 52,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(Systolic,
javax.swing.GroupLayout.PREFERRED_SIZE, 52,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(37, 37, 37)
        .addComponent(jLabel3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNREL
ATED)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(jLabel8)
            .addComponent(jLabel9))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATE
D, 15, Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(Fasting, javax.swing.GroupLayout.PREFERRED_SIZE,
52, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(PostMeal,
javax.swing.GroupLayout.PREFERRED_SIZE, 52,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(72, 72, 72)

```

```

        .addComponent(Finish, javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(68, 68, 68))
    );

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

    pack();
} // </editor-fold>

```

```

private void FinishMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:

```

```

    String user = UserText.getText();
    float systolic = Float.parseFloat(Systolic.getText());
    float diastolic = Float.parseFloat(Diastolic.getText());
    String resultBP = BP(systolic, diastolic);
    System.out.println(resultBP);

```

```

    float fasting = Float.parseFloat(Fasting.getText());
    float postMeal = Float.parseFloat(PostMeal.getText());
    String resultSugar = sugar(fasting, postMeal);
    System.out.println(resultSugar);

```

```

    try {

```

```

        String url = "jdbc:h2:~/test";
        Connection C =
DriverManager.getConnection(url, "Healthcare", "Healthcare");

```

```

        String query = "INSERT INTO GENERAL VALUES (" + user + ", " + systolic +
", " + diastolic + ", " + fasting + ", " + postMeal + ", " + resultBP + ", " + resultSugar + ")";

```

```

        System.out.println(query);
        Statement S = C.createStatement();
        S.executeUpdate(query);

        S.close();
        C.close();

        Login L = new Login();
        L.setVisible(true);
        this.dispose();

    } catch(SQLException E) {System.out.println(E); }

    //showMessageDialog(this, "Test
Completed","STATUS",JOptionPane.INFORMATION_MESSAGE);
}

private void InfoMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    showMessageDialog(this, "\n Input your Systolic(Upper) & Diastolic (Lower)\n
values of the blood pressure\n\n Input the blood sugar level before and\n
after(Postmeal) fasting.\n","INFO
PANEL",JOptionPane.INFORMATION_MESSAGE);
}

/**
 * @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(General.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(General.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(General.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(General.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 General().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JTextField Diastolic;
private javax.swing.JTextField Fasting;
private javax.swing.JButton Finish;
private javax.swing.JButton Info;
private javax.swing.JTextField PostMeal;
private javax.swing.JTextField Systolic;
private javax.swing.JLabel UserLabel;
private javax.swing.JLabel UserText;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;

```

```
private javax.swing.JLabel jLabel9;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel3;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTextArea jTextArea1;  
// End of variables declaration  
}
```

## History.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.showInputDialog;
import static javax.swing.JOptionPane.showMessageDialog;

import java.util.Vector;
/**
 *
 * @author gygshwr
 */
public class History extends javax.swing.JFrame {

    /**
     * Creates new form History
     */

    String name;
    Vector <Float> BMIvalues = new Vector <Float>();
    Float BMI;

    public History() {
        initComponents();
    }

    public History(String user) {
        initComponents();
        UserLabel.setText(user);
        setLocationRelativeTo(null);

        try {
            String U = UserLabel.getText();
```

```

        String url = "jdbc:h2:~/test";
        Connection C =
DriverManager.getConnection(url,"Healthcare","Healthcare");
        String query = "Select RESULTBP, RESULTSUGAR from GENERAL
where username = " + U + " ";

        System.out.println(query);
        Statement S = C.createStatement();
        ResultSet RS = S.executeQuery(query);
        String BPres = "" ;
        int count = 1;
        while(RS.next())
        {
            String BP = RS.getString("RESULTBP");
            String Sugar = RS.getString("RESULTSUGAR");

            BPres = BPres + count + "\t" + BP + "\t " + Sugar + "\n";
            count++;

        }
        History.setText(BPres);

    } catch(SQLException E) {
        System.out.println(E);
    }

}
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel2 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jMenuItem1 = new javax.swing.JMenuItem();
    jPanel1 = new javax.swing.JPanel();
    jPanel3 = new javax.swing.JPanel();
    jLabel3 = new javax.swing.JLabel();
    jLabel1 = new javax.swing.JLabel();
    UserLabel = new javax.swing.JLabel();

```

```

jLabel5 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
jScrollPane2 = new javax.swing.JScrollPane();
History = new javax.swing.JTextArea();
jButton1 = new javax.swing.JButton();
jLabel8 = new javax.swing.JLabel();

jPanel2.setBackground(new java.awt.Color(56, 175, 238));

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel2.setText("Health Aid");

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel2)
        .addGap(130, Short.MAX_VALUE))
    );
jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(17, Short.MAX_VALUE))
    );

jMenu1.setText("jMenu1");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jPanel1.setBackground(new java.awt.Color(255, 255, 255));

jPanel3.setBackground(new java.awt.Color(56, 175, 238));

jLabel3.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel3.setText("Health Aid");

```

```

        javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
        jPanel3.setLayout(jPanel3Layout);
        jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel3Layout.createSequentialGroup()
            .addGap(119, 119, 119)
            .addComponent(jLabel3)
            .addGap(124, Short.MAX_VALUE))
        );
        jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel3Layout.createSequentialGroup()
            .addGap(17, 17, 17)
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(17, Short.MAX_VALUE))
        );

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel1.setText("Welcome,");

UserLabel.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
UserLabel.setText("jLabel1");

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel5.setText("History");

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jLabel4.setText("Blood Sugar");

jLabel6.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jLabel6.setText("S.NO");

jLabel7.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jLabel7.setText("Blood Pressure");

History.setBackground(new java.awt.Color(204, 204, 204));
History.setColumns(20);
History.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
History.setRows(6);
jScrollPane2.setViewportView(History);

```

```

jButton1.setBackground(new java.awt.Color(255, 102, 102));
jButton1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jButton1.setText("Exit");
jButton1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jButton1MouseClicked(evt);
    }
});

jLabel8.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
jLabel8.setForeground(new java.awt.Color(102, 102, 102));
jLabel8.setText("Past Results");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jScrollPane2)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel5)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel1)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(UserLabel)
                .addGap(30, 30, 30))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addComponent(jLabel6)
                .addGap(47, 47, 47)
                .addComponent(jLabel7)
                .addGap(44, 44, 44)
                .addComponent(jLabel4)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
Short.MAX_VALUE)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(10, 10, 10)
                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jScrollPane2)
                    )
                )
            )
        )
    )
);

```

```

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(132, 132, 132)
            .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 178,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel8)))
        .addGap(0, 0, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(70, 70, 70)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLay
out.Alignment.BASELINE)
                    .addComponent(jLabel1)
                    .addComponent(UserLabel)))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RE
LATED)
                .addComponent(jLabel5)))
            .addGap(2, 2, 2)
            .addComponent(jLabel8)
            .addGap(72, 72, 72)
            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
                .addComponent(jLabel6)
                .addComponent(jLabel7)
                .addComponent(jLabel4))
            .addGap(18, 18, 18)
            .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 256,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)

```



```

        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE,
64, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(14, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap(
                    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            );

    pack();
} // </editor-fold>

private void jButton1MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Login L = new Login();
    L.setVisible(true);
    this.dispose();
}

/**
 * @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(History.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(History.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(History.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(History.class.getName()).log(java.util.logging.Le
vel.SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new History().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JTextArea History;
private javax.swing.JLabel UserLabel;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;

```

```
private javax.swing.JLabel jLabel8;  
private javax.swing.JMenu jMenu1;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel2;  
private javax.swing.JPanel jPanel3;  
private javax.swing.JScrollPane jScrollPane2;  
// End of variables declaration  
}
```

## Meditate.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;
import jaco.mp3.player.MP3Player;
import java.io.File;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.showMessageDialog;
/**
 *
 * @author gygshwr
 */
public class Meditate extends javax.swing.JFrame {

    /**
     * Creates new form Meditate
     */
    public Meditate() {
        initComponents();
        setLocationRelativeTo(null);
    }

    public static final String path1 = "/Users/gygshwr/NetBeansProjects/HealthAid/Meditate.mp3";
    MP3Player M1 = new MP3Player(new File(path1));

    public static final String path2 = "/Users/gygshwr/NetBeansProjects/HealthAid/MeditateTwo.mp3";
    MP3Player M2 = new MP3Player(new File(path2));

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel3 = new javax.swing.JPanel();
```

```

jPanel1 = new javax.swing.JPanel();
jLabel1 = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
Stop = new javax.swing.JButton();
Begin = new javax.swing.JButton();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
Min = new javax.swing.JComboBox<>();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jPanel3.setBackground(new java.awt.Color(255, 255, 255));

jPanel1.setBackground(new java.awt.Color(56, 175, 238));

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel1.setText("Health Aid");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(120, 120, 120)
        .addComponent(jLabel1)
        .addGap(jPanel1Layout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(16, 16, 16)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, Short.MAX_VALUE))
    );

jLabel2.setBackground(new java.awt.Color(255, 255, 255));
jLabel2.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jLabel2.setForeground(new java.awt.Color(102, 102, 102));

```

```

jLabel2.setText("Breathe In! Breathe Out!");

jLabel3.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel3.setText("Mindfulness");

Stop.setBackground(new java.awt.Color(153, 255, 102));
Stop.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Stop.setText("Stop Meditation");
Stop.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));
Stop.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        StopMouseClicked(evt);
    }
});

Begin.setBackground(new java.awt.Color(255, 102, 102));
Begin.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Begin.setText("Begin Meditation");
Begin.setBorder(javax.swing.BorderFactory.createEmptyBorder(1, 1, 1, 1));
Begin.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        BeginMouseClicked(evt);
    }
});

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jLabel4.setForeground(new java.awt.Color(51, 204, 255));
jLabel4.setText("Back To Main Menu");
jLabel4.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jLabel4MouseClicked(evt);
    }
});

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jLabel5.setText("Minutes");

jLabel6.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jLabel6.setText("Timer :");

Min.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Min.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "5",
"10" }));

```

```

    javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);
    jPanel3.setLayout(jPanel3Layout);
    jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
            .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout
t.Alignment.TRAILING)
                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLay
out.Alignment.LEADING)
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addGap(113, 113, 113)
                        .addComponent(Stop,
javax.swing.GroupLayout.PREFERRED_SIZE, 273,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addGap(15, 15, 15)
                        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.Grou
pLayout.Alignment.LEADING)
                            .addComponent(jLabel3)
                            .addComponent(jLabel2))))
                    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLay
out.Alignment.LEADING)
                        .addGroup(jPanel3Layout.createSequentialGroup()
                            .addComponent(jLabel6)
                            .addGap(18, 18, 18)
                            .addComponent(Min,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacemen
t.RELATED)
                            .addComponent(jLabel5))
                        .addComponent(Begin,
javax.swing.GroupLayout.PREFERRED_SIZE, 273,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGroup(jPanel3Layout.createSequentialGroup()
                    .addGap(162, 162, 162)
                    .addComponent(jLabel4)))
            .addContainerGap(114, Short.MAX_VALUE))

```

```

    );
    jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(30, 30, 30)
        .addComponent(jLabel3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATE
D)
        .addComponent(jLabel2)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATE
D, 59, Short.MAX_VALUE)
        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(jLabel5)
            .addComponent(jLabel6)
            .addComponent(Min, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(39, 39, 39)
            .addComponent(Begin, javax.swing.GroupLayout.PREFERRED_SIZE, 94,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(Stop, javax.swing.GroupLayout.PREFERRED_SIZE, 94,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(44, 44, 44)
            .addComponent(jLabel4)
            .addGap(101, 101, 101))
    );

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

```



```

    );

    pack();
} // </editor-fold>

private void jLabel4MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    Login B = new Login();
    B.setVisible(true);
    this.dispose();
}

private void BeginMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:

    String min = Min.getSelectedItem().toString();
    if(min.equals("5"))
        M1.play();
    else
        M2.play();
}

private void StopMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    String min = Min.getSelectedItem().toString();
    if(min.equals("5"))
        M1.stop();
    else
        M2.stop();
    showMessageDialog(this,"A few moments of meditation can bring immense
positivity.\nWe Recommend taking these sessions everyday.\nLooking forward to see
you soon. ", "Thank You! ", JOptionPane.WARNING_MESSAGE);
}

/**
 * @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(Meditate.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Meditate.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Meditate.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Meditate.class.getName()).log(java.util.logging.L
evel.SEVERE, null, ex);
    }
}
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Meditate().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton Begin;
private javax.swing.JComboBox<String> Min;
private javax.swing.JButton Stop;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;

```

```
private javax.swing.JLabel jLabel6;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel3;  
// End of variables declaration  
}
```

## Positivity.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

import java.awt.Color;
import java.util.Random;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.showMessageDialog;
/**
 *
 * @author gygshwr
 */
public class Positivity extends javax.swing.JFrame {

    /**
     * Creates new form Positivity
     */
    public Positivity() {
        initComponents();
        setLocationRelativeTo(null);
    }

    Random R = new Random();

    public static String[] Happy = {
        "\n\n\n You're off to great places, today is your day.\n Your mountain is
waiting, so get on your way.\n\n By Dr. Seuss",
        "\n\n\n You always pass failure on the way to success\n\n By Mickey
Rooney.",
        "\n\n\n It always seems impossible until it is done. \n\n By Nelson
Mandela",
        "\n\n\n Keep your face to the sunshine and you cannot \n See a shadow.\n\n
By Helen Keller",
        "\n\n\n Positive thinking will let you do everything better\n than negative
thinking will.\n\n By Helen Keller",
    };

    public static String[] Painful = {
        "\n\n\n The wound is the place where the Light enters you.\n Your mountain
is waiting, so get on your way\n\n By Rumi",
    };
```

```
"\n\n Scars have the strange power to remind\n Us that our past is real\n\n By Cormac McCarthy.",
```

```
"\n\n The soul is healed by being with children. \n\n By Fyodor Dostoevsky",
```

```
"\n\n Poetry heals the wounds inflicted by reason.\n\n By Novalis",
```

```
"\n\n Change, like healing, takes time.\n\n By Veronica Roth",
```

```
};
```

```
public static String[] Sad = {
```

```
"\n\n People should find happiness in the little things,\n Like family.\n\n By Amenda",
```

```
"\n\n Happiness is not an ideal of reason,\n But of imagination. \n\n By Immanuel",
```

```
"\n\n The secret of happiness is freedom,\n The secret of freedom is courage. \n\n By Carrie Jones",
```

```
"\n\n The only way to find true happiness\n Is to risk being completely cut open.\n\n By Chuck Palahniuk",
```

```
"\n\n Nobody really cares if you're miserable,\n So you might as well be happy.\n\n By Cynthia Nelms",
```

```
};
```

```
public static String[] Angry = {
```

```
"\n\n The greatest remedy for anger is delay.\n\n By Thomas Paine",
```

```
"\n\n God created anger to show your conflict\n Not to show your hate.\n\n By Jagdeesh",
```

```
"\n\n To remove your anger,\n You need to remove your comfort \n\n By Marie",
```

```
"\n\n What is bitterly done in uncontrolled anger\n Cannot be undone\n\n By Vinod Vargheese",
```

```
"\n\n Anger could be a gift only if it's used wisely\n\n By Dido Stargaze",
```

```
"\n\n Be Slow to Anger 'Quick' to\n Love Towards those Around You.\n\n By Syed",
```

```
};
```

```
/**
```

```
 * This method is called from within the constructor to initialize the form.
```

```
 * WARNING: Do NOT modify this code. The content of this method is always
```

```
 * regenerated by the Form Editor.
```

```
 */
```

```
@SuppressWarnings("unchecked")
```

```
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jPanel1 = new javax.swing.JPanel();
    jPanel2 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    Mood = new javax.swing.JComboBox<>();
    view = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    Display = new javax.swing.JTextArea();
    Back1 = new javax.swing.JButton();

    jLabel1.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel1.setText("Health Aid");

    jLabel3.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
    jLabel3.setText("Mindfulness");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
    setBackground(new java.awt.Color(255, 255, 255));

    jPanel1.setBackground(new java.awt.Color(255, 255, 255));

    jPanel2.setBackground(new java.awt.Color(56, 175, 238));

    jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel2.setText("Health Aid");

    javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
    jPanel2.setLayout(jPanel2Layout);
    jPanel2Layout.setHorizontalGroup(
        jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(120, 120, 120)
                .addComponent(jLabel2)
                .addGap(129, Short.MAX_VALUE))
    );
    jPanel2Layout.setVerticalGroup(

```

```
jLabel1 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jPanel1 = new javax.swing.JPanel();
jPanel2 = new javax.swing.JPanel();
jLabel2 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
Mood = new javax.swing.JComboBox<>();
view = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
Display = new javax.swing.JTextArea();
Back1 = new javax.swing.JButton();
```

```
jLabel1.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel1.setText("Health Aid");
```

```
jLabel3.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel3.setText("Mindfulness");
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setBackground(new java.awt.Color(255, 255, 255));
```

```
jPanel1.setBackground(new java.awt.Color(255, 255, 255));
```

```
jPanel2.setBackground(new java.awt.Color(56, 175, 238));
```

```
jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
jLabel2.setText("Health Aid");
```

```
        javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
        jPanel2.setLayout(jPanel2Layout);
        jPanel2Layout.setHorizontalGroup(
```

```
jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(120, 120, 120)
        .addComponent(jLabel2)
        .addContainerGap(129, Short.MAX_VALUE))
    );
jPanel2Layout.setVerticalGroup(
```

```

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(16, 16, 16)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(18, Short.MAX_VALUE))
    );

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 36)); // NOI18N
jLabel4.setText("Positivity");

jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel5.setForeground(new java.awt.Color(102, 102, 102));
jLabel5.setText("How Do You Feel Now?");

Mood.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Mood.setModel(new javax.swing.DefaultComboBoxModel<>(new String[]
{ "Happy", "Painful", "Sad", "Angry" }));

view.setBackground(new java.awt.Color(204, 102, 255));
view.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
view.setText("View Quote");
view.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        viewMouseClicked(evt);
    }
});

Display.setColumns(20);
Display.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Display.setForeground(new java.awt.Color(255, 255, 255));
Display.setLineWrap(true);
Display.setRows(5);
Display.setBorder(javax.swing.BorderFactory.createEtchedBorder());
Display.setCaretColor(new java.awt.Color(255, 255, 255));
Display.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND_CURSOR));
Display.setFocusable(false);
jScrollPane1.setViewportView(Display);

Back1.setBackground(new java.awt.Color(255, 102, 102));
Back1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Back1.setText("Back");
Back1.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {

```

```

        Back1MouseClicked(evt);
    }
});

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

    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    jPanel1Layout.createSequentialGroup()
        .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
    Short.MAX_VALUE)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
    lignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    jPanel1Layout.createSequentialGroup()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout
    out.Alignment.TRAILING)
        .addComponent(Back1,
    javax.swing.GroupLayout.PREFERRED_SIZE, 155,
    javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(view,
    javax.swing.GroupLayout.PREFERRED_SIZE, 155,
    javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(160, 160, 160))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    jPanel1Layout.createSequentialGroup()
        .addComponent(jLabel5)
        .addGap(34, 34, 34)
        .addComponent(Mood,
    javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(101, 101, 101))))
        .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(15, 15, 15)
        .addComponent(jLabel4)
        .addGap(javax.swing.GroupLayout.DEFAULT_SIZE,
    Short.MAX_VALUE))
        .addComponent(jScrollPane1)
    );

```



```

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(40, 40, 40)
        .addComponent(jLabel4)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(47, 47, 47)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 198,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RE
LATED, 69, Short.MAX_VALUE)
                .addComponent(jLabel5))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RE
LATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(Mood,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGap(27, 27, 27)
            .addComponent(view, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(18, 18, 18)
            .addComponent(Back1, javax.swing.GroupLayout.PREFERRED_SIZE,
50, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(35, 35, 35))
    );

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(jPanell, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

```

```

    pack();
} // </editor-fold>

```

```

private void viewMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    String mood = Mood.getSelectedItem().toString();

```

```

    if(mood.equals("Happy")) {
        int rand = R.nextInt(4);
        Display.setBackground(new Color(65,219,255));
        Display.setText(Happy[rand]);

```

```

    }

```

```

    else if(mood.equals("Painful")) {
        int rand = R.nextInt(4);
        Display.setBackground(new Color(102,225,102));
        Display.setText(Painful[rand]);

```

```

    }

```

```

    else if(mood.equals("Sad")) {
        int rand = R.nextInt(4);
        Display.setBackground(new Color(255,175,116));
        Display.setText(Sad[rand]);

```

```

    }

```

```

    else {
        int rand = R.nextInt(5);
        Display.setBackground(new Color(171,53,116));
        Display.setText(Angry[rand]);

```

```

    }

```

```

}

```

```

private void Back1MouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    showMessageDialog(this,"n Never Forget,\n This Too Shall
Pass.", "REMINDER", JOptionPane.INFORMATION_MESSAGE);
    Login B = new Login();
    B.setVisible(true);
    this.dispose();
}

```

```

/**
 * @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(Positivity.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Positivity.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Positivity.class.getName()).log(java.util.logging.
Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Positivity.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 Positivity().setVisible(true);
        }
    });
}

```

```
}  
  
// Variables declaration - do not modify  
private javax.swing.JButton Back1;  
private javax.swing.JTextArea Display;  
private javax.swing.JComboBox<String> Mood;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JPanel jPanel2;  
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JButton view;  
// End of variables declaration  
}
```

## Report.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import java.awt.Color;
import static javax.swing.JOptionPane.showMessageDialog;
import static javax.swing.JOptionPane.showInputDialog;

/**
 *
 * @author gygshwr
 */
public class Report extends javax.swing.JFrame {

    /**
     * Creates new form Report
     */
    public Report() {
        initComponents();
        setLocationRelativeTo(null);
    }

    String BMISuggestion[] = {
        " Eat more frequently\n Try Smoothies and Shakes\n Snack on  
Nuts and Cheese\n Add Extras to your dishes for more calories\n",
        " Stay hydrated\n Have a balanced Diet\n Be regular in your  
exercise\n Exercise for 60 - 90 Mins\n",
        " Drink water before meals\n Eat eggs for breakfast\n Drink  
Black coffee and Green Tea\n Cut back on added sugar\n",
        " Consume less bad fat\n Consume less procesed foods\n Eat  
plenty of dietary fiber\n Engage in regular aerobic - activity\n"
    }
}
```

```

};

public void BMIChange(String BMI) {

    String Set = " " +BMI;

    if(BMI.equals("Under Weight")) {
        Set = Set + "\n\n"+BMISuggestion[0];
        BMIResult.setText(Set);
        BMIResult.setBackground(new Color(196,255,145));

    }
    else if(BMI.equals("Normal")) {
        Set = Set + "\n\n"+BMISuggestion[1];
        BMIResult.setText(Set);
        BMIResult.setBackground(new Color(121,255,57));

    }
    else if(BMI.equals("Over Weight")) {
        Set = Set + "\n\n"+BMISuggestion[2];
        BMIResult.setText(Set);
        BMIResult.setBackground(new Color(235,138,62));

    }
    else if(BMI.equals("Obese")) {
        Set = Set + "\n\n"+BMISuggestion[3];
        BMIResult.setText(Set);
        BMIResult.setBackground(new Color(235,65,24));

    }

}

public void BPChange(String BMI) {

    String Set = " " +BMI;

    if(BMI.equals("Under Weight")) {
        Set = Set + "\n\n"+BMISuggestion[0];
        BMIResult.setText(Set);
        BMIResult.setBackground(new Color(196,255,145));

```

```

    }
    else if(BMI.equals("Normal")) {
        Set = Set + "\n\n"+BMISuggestion[1];
        BMIResult.setText(Set);
        BMIResult.setBackground(new Color(121,255,57));

    }
    else if(BMI.equals("Over Weight")) {
        Set = Set + "\n\n"+BMISuggestion[2];
        BMIResult.setText(Set);
        BMIResult.setBackground(new Color(235,138,62));

    }
    else if(BMI.equals("Obese")) {
        Set = Set + "\n\n"+BMISuggestion[3];
        BMIResult.setText(Set);
        BMIResult.setBackground(new Color(235,65,24));

    }

}

public Report(String user) {
    initComponents();
    UserLabel.setText(user);
    setLocationRelativeTo(null);

    String U = UserLabel.getText();
    try{
        String url = "jdbc:h2:~/test";
        Connection C =
DriverManager.getConnection(url,"Healthcare","Healthcare");
        String query = "Select RESULTS from BMIREPORT where username = "
+U + " ";
        System.out.println(query);
        Statement S = C.createStatement();
        ResultSet RS = S.executeQuery(query);

        while(RS.next()) {
            String BMI = RS.getString("RESULTS");
            System.out.println(BMI);
            if(BMI != " ")
                BMIChange(BMI);
            else

```

```

        showMessageDialog(this,"No Entries
Found!","Error",JOptionPane.ERROR_MESSAGE);
    }

```

```

    } catch(SQLException E) { System.out.println(E); }
}

```

```

/**

```

```

 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */

```

```

@SuppressWarnings("unchecked")

```

```

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

```

```

private void initComponents() {

```

```

    jPanel3 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    UserText = new javax.swing.JLabel();
    jPanel1 = new javax.swing.JPanel();
    jPanel4 = new javax.swing.JPanel();
    jLabel3 = new javax.swing.JLabel();
    jLabel1 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    UserLabel = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    BMIResult = new javax.swing.JTextArea();
    Next = new javax.swing.JButton();

```

```

    jPanel3.setBackground(new java.awt.Color(56, 175, 238));

```

```

    jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel2.setText("Health Aid");

```

```

    javax.swing.GroupLayout jPanel3Layout = new
    javax.swing.GroupLayout(jPanel3);
    jPanel3.setLayout(jPanel3Layout);
    jPanel3Layout.setHorizontalGroup(

```

```

    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```



```

        .addGroup(jPanel3Layout.createSequentialGroup())
        .addGap(119, 119, 119)
        .addComponent(jLabel2)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );
    jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup())
    .addGap(17, 17, 17)
    .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addContainerGap(17, Short.MAX_VALUE))
    );

    jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
    jLabel4.setText("Current user :");

    UserText.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
    UserText.setText("jLabel1");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jPanel1.setBackground(new java.awt.Color(255, 255, 255));

    jPanel4.setBackground(new java.awt.Color(56, 175, 238));

    jLabel3.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel3.setText("Health Aid");

    javax.swing.GroupLayout jPanel4Layout = new
javax.swing.GroupLayout(jPanel4);
    jPanel4.setLayout(jPanel4Layout);
    jPanel4Layout.setHorizontalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel4Layout.createSequentialGroup())
    .addGap(119, 119, 119)
    .addComponent(jLabel3)
    .addContainerGap(130, Short.MAX_VALUE))
    );
    jPanel4Layout.setVerticalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addGroup(jPanel4Layout.createSequentialGroup()
            .addGap(17, 17, 17)
            .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(17, Short.MAX_VALUE))
    );

    jLabel1.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
    jLabel1.setText("Report");

    jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
    jLabel5.setText("Current user :");

    UserLabel.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
    UserLabel.setText("jLabel1");

    jLabel6.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
    jLabel6.setForeground(new java.awt.Color(102, 102, 102));
    jLabel6.setText("BMI");

    BMIResult.setColumns(20);
    BMIResult.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
    BMIResult.setForeground(new java.awt.Color(255, 255, 255));
    BMIResult.setRows(5);
    jScrollPane1.setViewportViewView(BMIResult);

    Next.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
    Next.setText("Next");
    Next.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mouseClicked(java.awt.event.MouseEvent evt) {
            NextMouseClicked(evt);
        }
    });

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel4, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jScrollPane1)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(19, 19, 19)

```

```

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(jLabel6)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RE
LATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel5)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UN
RELATED)
        .addComponent(UserLabel)
        .addGap(48, 48, 48))))
        .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(149, 149, 149)
        .addComponent(Next, javax.swing.GroupLayout.PREFERRED_SIZE, 193,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
        .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayou
t.Alignment.BASELINE)
        .addComponent(UserLabel)
        .addComponent(jLabel5))
        .addComponent(jLabel1))
        .addGap(71, 71, 71)
        .addComponent(jLabel6)
        .addGap(37, 37, 37)
        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 225,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(70, 70, 70)
        .addComponent(Next, javax.swing.GroupLayout.PREFERRED_SIZE, 64,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addGap(0, 57, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new
    javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

    pack();
} // </editor-fold>

private void NextMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    ReportFinal R = new ReportFinal(UserLabel.getText());
    R.setVisible(true);
    this.dispose();
}

/**
 * @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(Main.class).log(java.util.logging.Level.
    SEVERE, "Could not load L&F");
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.Level.
    SEVERE, "Could not instantiate L&F");
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Main.class).log(java.util.logging.Level.
    SEVERE, "Could not access L&F");
    }
}

```

```

    }
}
} catch (ClassNotFoundException ex) {

```

```

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

```

```

} catch (InstantiationException ex) {

```

```

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

```

```

} catch (IllegalAccessException ex) {

```

```

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

```

```

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

```

```

java.util.logging.Logger.getLogger(Report.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 Report().setVisible(true);
    }

```

```

});
}

```

```

// Variables declaration - do not modify
private javax.swing.JTextArea BMIResult;
private javax.swing.JButton Next;
private javax.swing.JLabel UserLabel;
private javax.swing.JLabel UserText;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JScrollPane jScrollPane1;
// End of variables declaration    }

```

## ReportCheck.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.showInputDialog;
import static javax.swing.JOptionPane.showMessageDialog;

/**
 *
 * @author gygshwr
 */
public class ReportCheck extends javax.swing.JFrame {

    /**
     * Creates new form ReportCheck
     */
    public ReportCheck() {
        initComponents();
        setLocationRelativeTo(null);
    }

    public ReportCheck(String user) {
        initComponents();
        setLocationRelativeTo(null);
        UserLabelOne.setText(user);
    }

    public String decrpyt(String PIN) {
        System.out.println(PIN);
        String newPin = "";
        int len = PIN.length();
```

```

for(int i = 0; i < len; i++) {

    switch(PIN.charAt(i)) {

        case '1': {
            newPin = newPin + "+";
            break;
        }
        case '2': {
            newPin = newPin + "=";
            break;
        }
        case '3': {
            newPin = newPin + "-";
            break;
        }
        case '4': {
            newPin = newPin + "_";
            break;
        }
        case '5': {
            newPin = newPin + ")";
            break;
        }
        case '6': {
            newPin = newPin + "(";
            break;
        }
        case '7': {
            newPin = newPin + "*";
            break;
        }
        case '8': {
            newPin = newPin + "&";
            break;
        }
        case '9': {
            newPin = newPin + "^";
            break;
        }
        case '0': {
            newPin = newPin + "%";
            break;
        }
    }
}

```

```

        }

        default: {
            newPin = newPin + "$";
            break;
        }
    }
}

return newPin;
}
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel3 = new javax.swing.JLabel();
    UserLabel = new javax.swing.JLabel();
    jPanel1 = new javax.swing.JPanel();
    jPanel2 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    UserLabelOne = new javax.swing.JLabel();
    Generate = new javax.swing.JButton();
    PIN = new javax.swing.JPasswordField();
    jLabel1 = new javax.swing.JLabel();

    jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
    jLabel3.setText("Welcome,");

    UserLabel.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
    UserLabel.setText("jLabel1");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jPanel1.setBackground(new java.awt.Color(255, 255, 255));

    jPanel2.setBackground(new java.awt.Color(56, 175, 238));

    jLabel2.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N

```



```

jLabel2.setText("Health Aid");

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel2)
        .addGap(130, Short.MAX_VALUE))
    );
jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(17, Short.MAX_VALUE))
    );

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
jLabel4.setText("Welcome,");

UserLabelOne.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
UserLabelOne.setText("jLabel1");

Generate.setBackground(new java.awt.Color(102, 255, 102));
Generate.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Generate.setText("Generate");
Generate.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        GenerateMouseClicked(evt);
    }
});

PIN.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
PIN.setHorizontalAlignment(javax.swing.JTextField.CENTER);
PIN.setBorder(javax.swing.BorderFactory.createLineBorder(new
java.awt.Color(0, 153, 255)));

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
jLabel1.setForeground(new java.awt.Color(102, 102, 102));

```

```

jLabel1.setText("Personal Identification Number");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(129, 129, 129)
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.LEADING)
                    .addComponent(PIN,
javax.swing.GroupLayout.PREFERRED_SIZE, 204,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel4)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacemen
t.RELATED)
                        .addComponent(UserLabelOne))
                    .addComponent(Generate,
javax.swing.GroupLayout.PREFERRED_SIZE, 204,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addGap(106, 106, 106)
                    .addComponent(jLabel1)))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );
jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
lignment.BASELINE)
            .addComponent(jLabel4)

```

```

        .addComponent(UserLabelOne))
    .addGap(65, 65, 65)
    .addComponent(jLabel1)
    .addGap(33, 33, 33)
    .addComponent(PIN, javax.swing.GroupLayout.PREFERRED_SIZE, 59,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(31, 31, 31)
    .addComponent(Generate, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGap(0, 156, Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new
    javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );

    pack();
} // </editor-fold>

private void GenerateMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:

    String PII = PIN.getText();
    String pin = decrypt(PII);

    String userN = UserLabelOne.getText();
    try {

        String url = "jdbc:h2:~/test";
        Connection C =
        DriverManager.getConnection(url, "Healthcare", "Healthcare");

```

```

        String query = "Select count(*) from Login where username = '"+userN+"'
and '+' PIN = '"+pin+"'";
        System.out.println(query);
        Statement S = C.createStatement();
        ResultSet RS = S.executeQuery(query);
        while(RS.next()) {
            int count = RS.getInt("COUNT(*)");

            if(count == 0) {

                showMessageDialog(this,"WRONG
PIN!","ALERT",JOptionPane.ERROR_MESSAGE);
                BootPage B = new BootPage(UserLabelOne.getText());
                B.setVisible(true);
                this.dispose();

            }
            else {
                Report R = new Report(UserLabelOne.getText());
                R.setVisible(true);
                this.dispose();
            }
        }
    } catch(SQLException E) { System.out.println(E); }
}

/**
 * @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(ReportCheck.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(ReportCheck.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(ReportCheck.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(ReportCheck.class.getName()).log(java.util.loggi
ng.Level.SEVERE, null, ex);
    }
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new ReportCheck().setVisible(true);
    }
});
}

// Variables declaration - do not modify
private javax.swing.JButton Generate;
private javax.swing.JPasswordField PIN;
private javax.swing.JLabel UserLabel;
private javax.swing.JLabel UserLabelOne;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
// End of variables declaration
}

```

## ReportFinal.java

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package healthaid;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JOptionPane;
import java.awt.Color;
import static javax.swing.JOptionPane.showMessageDialog;
import static javax.swing.JOptionPane.showInputDialog;

/**
 *
 * @author gygshwr
 */
public class ReportFinal extends javax.swing.JFrame {

    /**
     * Creates new form ReportFinal
     */
    public ReportFinal() {
        initComponents();
    }

    public String BPResults[] = { "\n Low Mean Arterial Pressure\n\n This could be
a possible sign of\n Stroke or Internal Bleeding\n Consult an Doctor Immediately",
        "\n Normal Mean Arterial Pressure\n\n Your average blood
pressure in the body is normal\n",
        "\n High Mean Arterial Pressure\n\n This could be a cause an
heart attack or organ failure\n Consult an Doctor immediately"

    };

    public String SugarResults[] = { "\n Non - Diabetes\n\n Your blood results show
no sign of diabetes\n Drink plenty of water\n",
        "\n Pre - Diabetes\n\n You are in a higher risk of developing
Diabetes\n Consume less processed foods\n Take natural foods",
```

```
        "\n Diabetes\n\n Choose healthier carbs\n Eat Less salt\n Eat less meat\n"
```

```
};
```

```
public void BPChange(String BP) {
```

```
    if(BP.equals("Low MAP")) {  
        BPResult.setText(BPResults[0]);  
        BPResult.setBackground(new Color(255,103,27));
```

```
    }
```

```
    else if(BP.equals("Normal MAP")) {
```

```
        BPResult.setText(BPResults[1]);  
        BPResult.setBackground(new Color(0,103,39));
```

```
    }
```

```
    else if(BP.equals("High MAP")) {
```

```
        BPResult.setText(BPResults[2]);  
        BPResult.setBackground(new Color(255,57,4));
```

```
    }
```

```
    else if(BP.equals("null")) {  
        BPResult.setText("\n Wrong Details");  
        BPResult.setBackground(new Color(255,57,40));
```

```
    }
```

```
}
```

```
public void SugarChange(String BP) {
```

```
    if(BP.equals("Non - Diabetic")) {  
        SugarResult.setText(SugarResults[0]);  
        SugarResult.setBackground(new Color(0,103,39));
```

```
    }
```

```
    else if(BP.equals("Pre - Diabetic")) {
```

```

        SugarResult.setText(SugarResults[1]);
        SugarResult.setBackground(new Color(255,103,39));

    }
    else if(BP.equals("Diabetic")) {

        SugarResult.setText(SugarResults[2]);
        SugarResult.setBackground(new Color(255,57,4));

    }
    else if(BP.equals("null")) {
        SugarResult.setText("\n Wrong Details");
        SugarResult.setBackground(new Color(255,57,40));

    }

}

public ReportFinal(String User) {
    initComponents();
    UserLabel.setText(User);
    setLocationRelativeTo(null);

    try {

        String U = UserLabel.getText();
        String url = "jdbc:h2:~/test";
        Connection C =
DriverManager.getConnection(url,"Healthcare","Healthcare");
        String query = "Select * from GENERAL where username = '" +U + "'";
        System.out.println(query);
        Statement S = C.createStatement();
        ResultSet RS = S.executeQuery(query);

        while(RS.next())
        {
            String BP = RS.getString("RESULTBP");
            String Sugar = RS.getString("RESULTSUGAR");

            System.out.println(BP + "\n\n" + Sugar);
            BPChange(BP);
            SugarChange(Sugar);
        }
    }
}

```



```

        RS.close();
        S.close();

    } catch (SQLException E) { System.out.println(E); }

}
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jPanel4 = new javax.swing.JPanel();
    jLabel3 = new javax.swing.JLabel();
    jPanel1 = new javax.swing.JPanel();
    jPanel5 = new javax.swing.JPanel();
    jLabel4 = new javax.swing.JLabel();
    jLabel1 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    UserLabel = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    SugarResult = new javax.swing.JTextArea();
    jLabel7 = new javax.swing.JLabel();
    jScrollPane2 = new javax.swing.JScrollPane();
    BPResult = new javax.swing.JTextArea();
    Exit = new javax.swing.JButton();

    jPanel4.setBackground(new java.awt.Color(56, 175, 238));

    jLabel3.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel3.setText("Health Aid");

    javax.swing.GroupLayout jPanel4Layout = new
javax.swing.GroupLayout(jPanel4);
    jPanel4.setLayout(jPanel4Layout);
    jPanel4Layout.setHorizontalGroup(

    jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel4Layout.createSequentialGroup()
            .addGap(119, 119, 119)
            .addComponent(jLabel3)

```

```

        .addContainerGap(130, Short.MAX_VALUE))
    );
    JPanel4Layout.setVerticalGroup(

JPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(JPanel4Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(17, Short.MAX_VALUE))
    );

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    JPanel1.setBackground(new java.awt.Color(255, 255, 255));

    JPanel5.setBackground(new java.awt.Color(56, 175, 238));

    jLabel4.setFont(new java.awt.Font("Tahoma", 1, 48)); // NOI18N
    jLabel4.setText("Health Aid");

    javax.swing.GroupLayout JPanel5Layout = new
    javax.swing.GroupLayout(JPanel5);
    JPanel5.setLayout(JPanel5Layout);
    JPanel5Layout.setHorizontalGroup(

JPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(JPanel5Layout.createSequentialGroup()
        .addGap(119, 119, 119)
        .addComponent(jLabel4)
        .addContainerGap(130, Short.MAX_VALUE))
    );
    JPanel5Layout.setVerticalGroup(

JPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(JPanel5Layout.createSequentialGroup()
        .addGap(17, 17, 17)
        .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE,
66, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(17, Short.MAX_VALUE))
    );

    jLabel1.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
    jLabel1.setText("Report");

```

```
jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel5.setText("Current user :");
```

```
UserLabel.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
UserLabel.setText("jLabel1");
```

```
jLabel6.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
jLabel6.setForeground(new java.awt.Color(102, 102, 102));
jLabel6.setText("Blood Sugar");
```

```
SugarResult.setColumns(20);
SugarResult.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
SugarResult.setForeground(new java.awt.Color(255, 255, 255));
SugarResult.setRows(5);
jScrollPane1.setViewportViewView(SugarResult);
```

```
jLabel7.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N
jLabel7.setForeground(new java.awt.Color(102, 102, 102));
jLabel7.setText("Blood Pressure");
```

```
BPResult.setColumns(20);
BPResult.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
BPResult.setForeground(new java.awt.Color(255, 255, 255));
BPResult.setRows(5);
jScrollPane2.setViewportViewView(BPResult);
```

```
Exit.setBackground(new java.awt.Color(255, 51, 51));
Exit.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N
Exit.setText("Exit");
Exit.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        ExitMouseClicked(evt);
    }
});
```

```
javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);
jPanel1.setLayout(jPanel1Layout);
jPanel1Layout.setHorizontalGroup(
```

```
jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jPanel5, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.TRAILING)
```

```

        .addGroup(jPanel1Layout.createSequentialGroup())
        .addContainerGap()
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RE
LATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel5)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UN
RELATED)
        .addComponent(UserLabel)
        .addGap(54, 54, 54))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jLabel7)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jLabel6)
        .addGap(0, 0, Short.MAX_VALUE))))
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addGap(154, 154, 154)
        .addComponent(Exit, javax.swing.GroupLayout.PREFERRED_SIZE, 173,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
        .addComponent(jScrollPane2,
javax.swing.GroupLayout.Alignment.TRAILING)
    );
    jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup())
        .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(25, 25, 25)
        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.A
alignment.BASELINE)
        .addComponent(UserLabel)
        .addComponent(jLabel5)
        .addComponent(jLabel1))
        .addGap(26, 26, 26)
        .addComponent(jLabel6)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNREL
ATED)

```

```

        .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 180,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(26, 26, 26)
        .addComponent(jLabel7)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATE

```

D)

```

        .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 166,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(Exit, javax.swing.GroupLayout.DEFAULT_SIZE, 60,
Short.MAX_VALUE)
        .addGap(18, 18, 18))
    );

```

```

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    layout.setVerticalGroup(
        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)
                .addGap(0, 0, Short.MAX_VALUE))
    );

```

```

    pack();
} // </editor-fold>

```

```

private void ExitMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    BootPage B = new BootPage(UserLabel.getText());
    B.setVisible(true);
    this.dispose();
}

```

```

/**
 * @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(ReportFinal.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(ReportFinal.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(ReportFinal.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(ReportFinal.class.getName()).log(java.util.logging
g.Level.SEVERE, null, ex);
        }
        //</editor-fold>

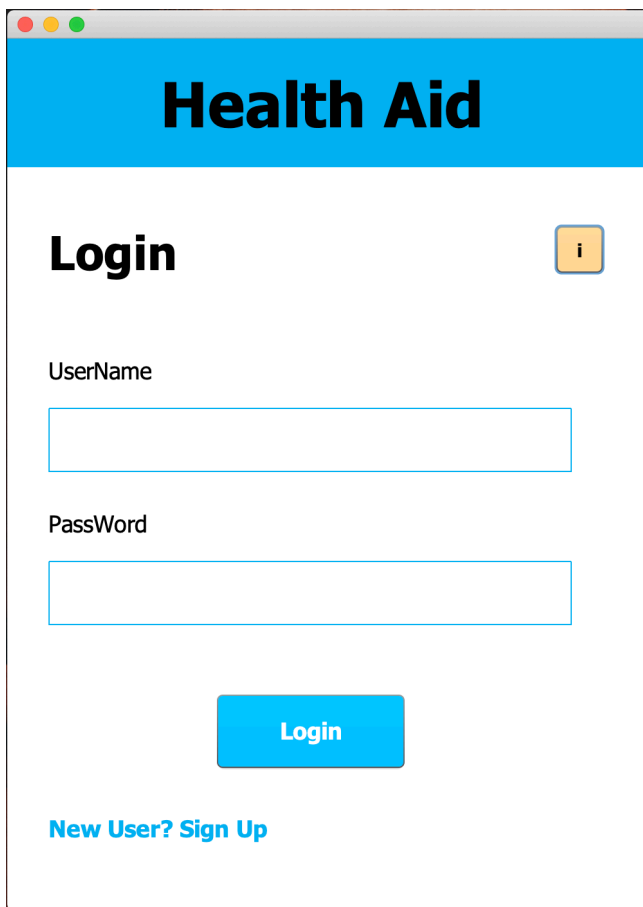
        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new ReportFinal().setVisible(true);
            }
        });
    }
}

```

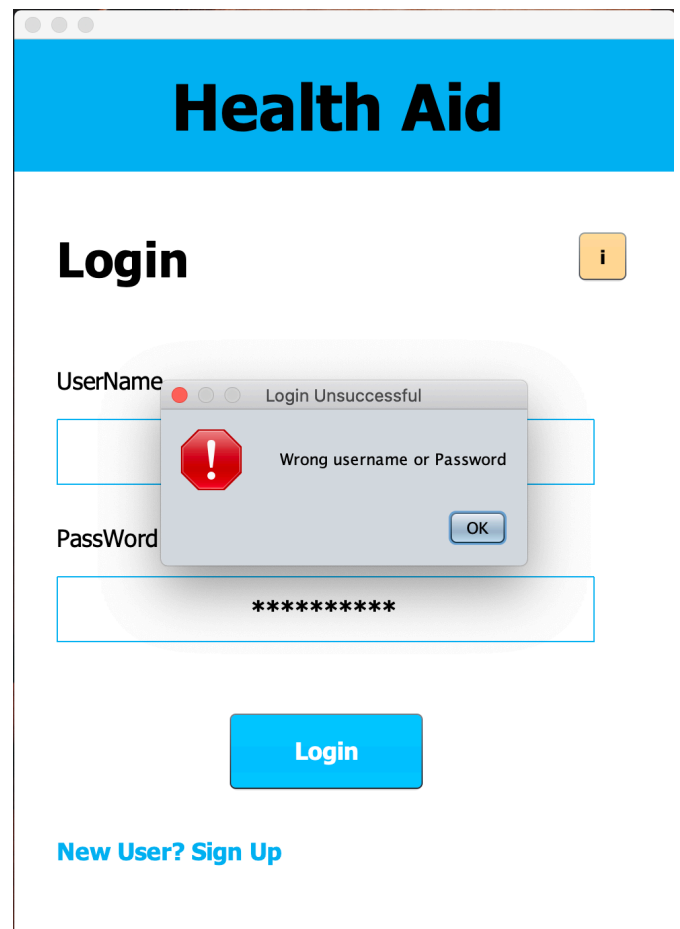
```
// Variables declaration - do not modify
private javax.swing.JTextArea BPRResult;
private javax.swing.JButton Exit;
private javax.swing.JTextArea SugarResult;
private javax.swing.JLabel UserLabel;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel4;
private javax.swing.JPanel jPanel5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
// End of variables declaration
}
```

# Output (Screenshots)

## Accounts Module



A screenshot of a web application window titled "Health Aid". The window has a blue header bar with the title. Below the header, the word "Login" is displayed in a large, bold, black font. To the right of "Login" is a small yellow square icon with a lowercase 'i'. Below "Login", there are two input fields: "UserName" and "PassWord". The "PassWord" field is masked with asterisks. Below the input fields is a blue button labeled "Login". At the bottom left, there is a link that says "New User? Sign Up".



A screenshot of the same "Health Aid" web application window, but with an error message displayed. A modal dialog box titled "Login Unsuccessful" is overlaid on the login form. The dialog box has a red octagonal icon with a white exclamation mark and the text "Wrong username or Password". There is an "OK" button in the bottom right corner of the dialog box. The background login form is slightly faded, showing the "Login" text, input fields, and button.





## Tests Module

# Health Aid

Current user : ysh.x

i

## Blood Pressure

Systolic

100

Diastolic

100

## Blood Sugar

Fasting

100

Post Meal

120

Finish

# Health Aid

Welcome, ysh

Personal Identification Number

Generate

# Health Aid

**Welcome, ysh**

**Personal Identification Number**

**Generate**

# Health Aid

**Report**

Current user : ysh

**BMI**

Obese

Consume less bad fat  
Consume less procesed foods  
Eat plenty of dietary fiber  
Engage in regular aerobic - activity

**Next**

# Health Aid

## Report

Current user : ysh

### BMI

Obese

Consume less bad fat  
Consume less processed foods  
Eat plenty of dietary fiber  
Engage in regular aerobic - activity

**Next**

# Health Aid

## Report

Current user : ysh

### Blood Sugar

Non - Diabetes

Your blood results show no sign of diabetes  
Drink plenty of water

### Blood Pressure

Normal Mean Arterial Pressure

Your average blood pressure in the body is normal

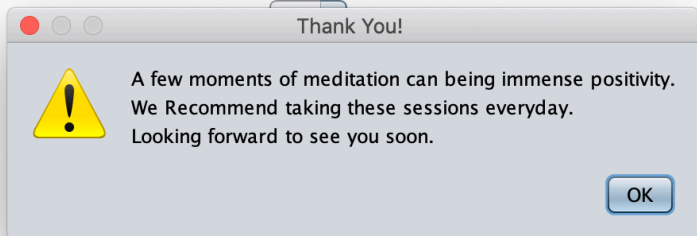
**Exit**

## Mental Well-being Module

# Health Aid

## Mindfulness

Breathe In! Breathe Out!



**Stop Meditation**

[Back To Main Menu](#)

# Health Aid

## Mindfulness

Breathe In! Breathe Out!

Timer :  Minutes

**Begin Meditation**

**Stop Meditation**

[Back To Main Menu](#)

# Health Aid

## Positivity

The soul is healed by being with children.

By Fyodor Dostoevsky

How Do You Feel Now?

Painful ▼

**View Quote**

**Back**

# Health Aid

## Positivity

It always seems impossible until it is done.

By Nelson Mandela

How Do You Feel Now?

Happy ▼

**View Quote**

**Back**

Health Aid

History

Welcome, ysh

Past Results

S.NO	Blood Pressure	Blood Sugar
1	Normal MAP	Non - Diabetic

Exit

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