Time2Heal - Heal on Your Terms, On Your Time

LAPORAN PROYEK AKHIR

COMP6364 – Object Oriented Programming

KELAS LA20

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Semester Ganjil 2023/2024

MALANG

LEMBAR PERSETUJUAN PROYEK AKHIR

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Laporan akhir proyek ini adalah benar karya kami :

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BAB I

LATAR BELAKANG

Kesehatan mental atau *mental health* adalah kondisi kesehatan yang berkaitan erat dengan kondisi emosi, kejiwaan, dan psikis seseorang. Dilansir dari WHO, kesehatan mental adalah keadaan sejahtera atau sehat mental seseorang yang memungkinkan seseorang tersebut dalam mengatasi tekanan hidup, menyadari kemampuannya, belajar dan bekerja secara baik, dan berkontribusi pada komunitasnya.

Kesehatan mental sangatlah penting seperti menjaga kesehatan fisik. Kesehatan mental yang baik dapat membuat pikiran yang lebih positif, dan mempengaruhi seseorang dalam menjalani harinya dengan baik sekaligus kesehatan mental berpengaruh besar dalam mempengaruhi cara seseorang dalam berpikir, merasakan sesuatu, dan berperilaku. Beberapa manfaat dari menjaga kesehatan mental adalah memperbaiki suasana hati, mengurangi kecemasan, berpikir lebih jernih, dan meningkatkan hubungan baik itu dengan diri sendiri maupun dengan orang lain. Jika kesehatan mental terganggu maka berdampak pada banyak hal seperti seseorang bisa merasa kecemasan atau kebingungan bahkan kesal atau menangis tanpa alasan yang jelas, konsentrasi mudah terganggu, mengurangi produktivitas, dan mual muntah yang berkelanjutan. Gangguan mental mencakup berbagai kondisi, di antaranya gangguan kecemasan yang melibatkan kekhawatiran berlebihan dan serangan panik, depresi yang ditandai oleh perasaan sedih yang mendalam, energi rendah, dan gangguan pola tidur, serta gangguan bipolar yang melibatkan perubahan suasana hati ekstrem. Selain itu, skizofrenia juga merupakan penyakit mental serius yang mempengaruhi cara seseorang berpikir, merasa, dan berperilaku. Penting untuk meningkatkan kesadaran dan pemahaman masyarakat terhadap penyakit mental serta mengedepankan upaya pencegahan, diagnosis dini, dan dukungan bagi individu yang terkena dampak.

Di tahun 2022, menurut Indonesia-National Adolescent Mental Health Survey (I-NAMHS) sebanyak 34,9% remaja di Indonesia mengalami gangguan mental, 6,1 % diantaranya merupakan penduduk yang berusia diatas 15 tahun. 1 dari 20 remaja di Indonesia juga melaporkan bahwa dirinya mengalami kecemasan, kesepian, lebih mudah depresi, dan sulit berkonsentrasi. Meskipun kesehatan mental menjadi semakin diperhatikan, stigma terkait masalah ini masih menjadi kendala. Banyak orang yang enggan mencari bantuan atau berbicara terbuka tentang kondisi kesehatan mental mereka karena takut dianggap lemah atau dihakimi oleh masyarakat. Oleh karena itu, penting untuk terus mendukung kesadaran dan pemahaman tentang kesehatan mental di masyarakat. Program-program edukasi dan kampanye anti-stigma dapat berperan penting dalam mengubah pandangan masyarakat terhadap masalah kesehatan mental, membuka pintu bagi individu untuk mencari pertolongan dan dukungan.

Integrasi perawatan kesehatan mental ke dalam sistem kesehatan yang lebih luas sangat penting. Meningkatkan aksesibilitas layanan kesehatan mental, melibatkan praktisi kesehatan umum dalam deteksi dini gejala gangguan mental, dan menciptakan lingkungan yang mendukung kesehatan mental adalah langkah-langkah efektif untuk mengatasi masalah ini secara holistik. Upaya bersama dari individu, komunitas, dan lembaga kesehatan dapat membantu mengurangi prevalensi gangguan mental dan meningkatkan kualitas hidup secara keseluruhan.

BAB II

LANDASAN TEORI

3.1 CONSTRUCTOR

3.1.1 Constructor adalah method khusus yang dieksekusi saat objek (instance) dari sebuah class dibuat. Tujuan utamanya adalah untuk inisialisasi atau persiapan data pada objek yang baru dibuat. Dalam konteks aplikasi atau web yang Anda jelaskan, constructor mungkin digunakan saat membuat objek untuk dokter, pasien, atau sesi pertemuan. Saat objek dokter atau pasien dibuat, constructor dapat menetapkan nilai awal untuk properti seperti nama, alamat, atau informasi lain yang diperlukan.

3.2 OVERLOADING

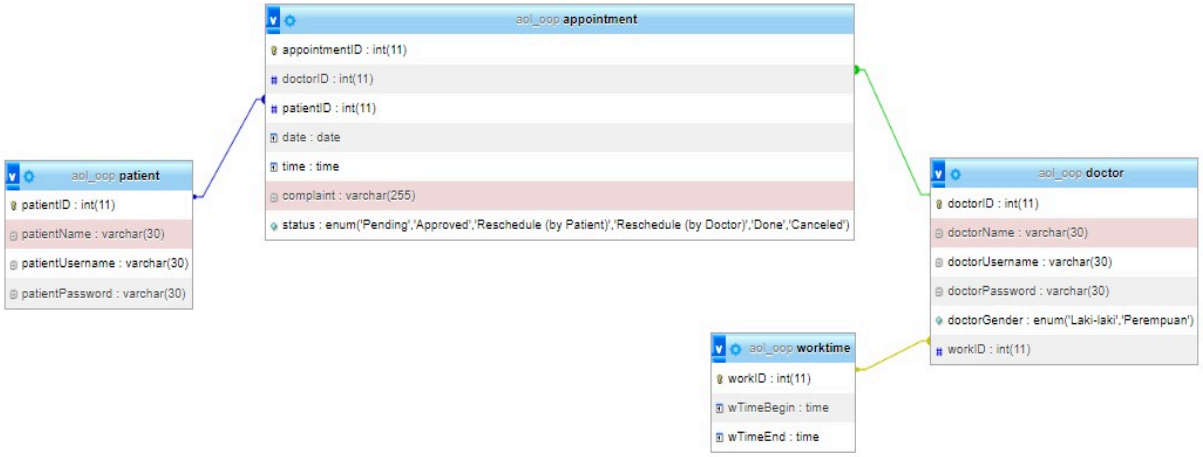
3.2.1 Overloading dalam konteks pemrograman memungkinkan pembuatan beberapa definisi fungsi atau metode dengan nama yang sama, tetapi dengan parameter yang berbeda. Overloading dapat terjadi saat menangani login dokter dan pasien dengan metode yang berbeda, memungkinkan implementasi autentikasi yang berbeda sesuai peran pengguna atau saat menyesuaikan fitur berdasarkan sesi pengguna.

3.3 INHERITANCE

3.3.1 Inheritance adalah konsep dalam pemrograman dimana sebuah class dapat mewariskan properti (variabel) dan metode (fungsi) yang dimilikinya kepada class lain yang diturunkan darinya. Dalam konteks ini untuk manajemen antara dokter dan pasien, inheritance bisa digunakan saat ada class untuk dokter dan class untuk pasien yang mewarisi properti atau fungsi yang mungkin sama atau serupa, seperti informasi kontak, alamat, atau fungsi yang terkait dengan manajemen janji temu.

BAB III

FLOWCHART



BAB IV

HASIL PROGRAM

1. loginPage.java

```
/*
 * Click
nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

import java.sql.*;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.ERROR_MESSAGE;


public class loginPage extends javax.swing.JFrame {

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

    /**
     * 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();
        jLabel6 = new javax.swing.JLabel();
        jPanel2 = new javax.swing.JPanel();
        jTextField1 = new javax.swing.JTextField();
        jPasswordField1 = new javax.swing.JPasswordField();
        jButton1 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setResizable(false);
```

```
        jPanel1.setBackground(new java.awt.Color(102, 255, 102));

        jLabel6.setText("<html>\n<center>\n<h1>Time2Heal</h1>\n<h2>Heal
on Your Terms, On Your Time</h2>\n</center>\n</html>");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(25, 25, 25)
                .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE, 207,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(25, Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(58, 58, 58)
                .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );

        jButton1.setFont(new java.awt.Font("Segoe UI", 1, 12)); //
NOI18N
        jButton1.setText("LOGIN");
        jButton1.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton1ActionPerformed(evt);
            }
        });

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 36)); //
NOI18N
        jLabel1.setText("Welcome");

        jLabel2.setText("Username");

        jLabel3.setText("Password");

        jLabel4.setText("Don't have an account ?");
```

```
        jLabel5.setForeground(new java.awt.Color(51, 0, 255));
        jLabel5.setText("Sign up");
        jLabel5.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                jLabel5MouseClicked(evt);
            }
        });

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(70, 70, 70)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addComponent(jLabel2)
                    .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 290,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel3)
                    .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE, 290,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(57, 57, 57)
                        .addComponent(jLabel1)))
                .addContainerGap(46, Short.MAX_VALUE))
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(128, 128, 128)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
                    .addComponent(jLabel4)
                    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 94,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel5)
                .addGap(0, 0, Short.MAX_VALUE))
        );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(61, 61, 61)
                .addComponent(jLabel1)
                .addGap(52, 52, 52)
                .addComponent(jLabel2)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                    .addComponent(jLabel4)
                    .addComponent(jLabel5))
                .addGap(21, 21, 21)
                .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(92, 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()
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPanel2,
javax.swing.GroupLayout.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)
            .addComponent(jPanel2,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        );
```

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

    private String patientFName;
    private String patientID;
    private String doctorFName;
    private String doctorID;

    private void jButton1ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            String user = jTextField1.getText();
            String pass = jPasswordField1.getText();

            String sql1 = "select p.patientID, p.patientname,
p.patientusername, p.patientpassword from patient as p where
p.patientusername='"+user+"' and p.patientpassword='"+pass+"'";
            String sql2 = "select d.doctorID, d.doctorname,
d.doctorusername, d.doctorpassword from doctor as d where
d.doctorusername='"+user+"' and d.doctorpassword='"+pass+"'";

            Statement statement1 = connection.createStatement();
            ResultSet rs1 = statement1.executeQuery(sql1);

            Statement statement2 = connection.createStatement();
            ResultSet rs2 = statement2.executeQuery(sql2);

            if(rs1.next()){
                landPatient patient = new landPatient();
                patient.setVisible(true);

                patientFName = rs1.getString("p.patientName");
                patient.setPatientName(patientFName);
                patientID = rs1.getString("p.patientID");
                patient.setPatientID(patientID);

                hide();
            }else if(rs2.next()){
                landDoctor doctor = new landDoctor();
                doctor.setVisible(true);

                doctorFName = rs2.getString("d.doctorName");
                doctor.setDoctorName(doctorFName);
                doctorID = rs2.getString("d.doctorID");
```

```
                doctor.setDoctorID(doctorID);

                hide();
            }else{
                JOptionPane.showMessageDialog(this, "Wrong Username or
Password !!!", "Login Failed", ERROR_MESSAGE);
                jTextField1.setText("");
                jPasswordField1.setText("");
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }
    }

    private void jLabel5MouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        regPatient regpat = new regPatient();
        regpat.setVisible(true);

        hide();
    }

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

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

```
        } catch (IllegalAccessException ex) {

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

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

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

    // Variables declaration - do not modify
    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.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPasswordField jPasswordField1;
    private javax.swing.JTextField jTextField1;
    // End of variables declaration
}
```

2. regPatient.java

```
/*
 * Click
nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.WARNING_MESSAGE;
```

```
public class regPatient extends javax.swing.JFrame {

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

    /**
     * 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();
        jLabel8 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jPasswordField1 = new javax.swing.JPasswordField();
        jPasswordField2 = new javax.swing.JPasswordField();
        jToggleButton1 = new javax.swing.JToggleButton();
        jLabel6 = new javax.swing.JLabel();
        jLabel7 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setResizable(false);

        jPanel1.setBackground(new java.awt.Color(102, 255, 102));

        jLabel8.setText("<html>\n<center>\n<h1>Time2Heal</h1>\n<h2>Heal
on Your Terms, On Your Time</h2>\n</center>\n</html>");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(25, 25, 25)
```

```
                .addComponent(jLabel8,
javax.swing.GroupLayout.PREFERRED_SIZE, 207,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(25, Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(58, 58, 58)
                .addComponent(jLabel8,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
NOI18N
        jLabel1.setText("Sign Up");

        jLabel2.setText("Full Name");

        jLabel3.setText("Username");

        jLabel4.setText("Password");

        jLabel5.setText("Confirm Password");

        jPasswordField2.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jPasswordField2ActionPerformed(evt);
            }
        });

        jToggleButton1.setText("Sign Up");
        jToggleButton1.addActionListener(new
java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jToggleButton1ActionPerformed(evt);
            }
        });

        jLabel6.setText("Have an account ?");

        jLabel7.setText("Login");
        jLabel7.addMouseListener(new java.awt.event.MouseAdapter() {
            public void mouseClicked(java.awt.event.MouseEvent evt) {
                jLabel7MouseClicked(evt);
            }
```

```
        });

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

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)

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

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
                                        .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 90,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING, false)
                                            .addComponent(jLabel3)
                                            .addComponent(jLabel2)
                                            .addComponent(jLabel5)
                                            .addComponent(jLabel4)
                                            .addComponent(jTextField1)
                                            .addComponent(jTextField2)
                                            .addComponent(jPasswordField1)
                                            .addComponent(jPasswordField2,
javax.swing.GroupLayout.PREFERRED_SIZE, 275,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                                    .addGap(70, 70, 70))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                                    .addComponent(jLabel6)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                    .addComponent(jLabel7)
                                    .addGap(144, 144, 144))))
                    .addGroup(layout.createSequentialGroup()
```

```
                        .addGap(175, 175, 175)
                        .addComponent(jToggleButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 85,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(0, 175, 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)
            .addGroup(layout.createSequentialGroup()
                .addGap(33, 33, 33)
                .addComponent(jLabel1,
javax.swing.GroupLayout.PREFERRED_SIZE, 46,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jTextField1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jTextField2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jLabel4)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPasswordField1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jPasswordField2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                    .addComponent(jLabel6)
                    .addComponent(jLabel7))
                .addGap(18, 18, 18)
                .addComponent(jToggleButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 39,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(20, Short.MAX_VALUE))
        );

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

    private void
jPasswordField2ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void
jToggleButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            String fname = jTextField1.getText();
            String uname = jTextField2.getText();
            String pass = jPasswordField1.getText();
            String cpass = jPasswordField2.getText();

            if(!pass.equals(cpass)){
                JOptionPane.showMessageDialog(this, "Password doesn't
match !!!", "Register Failed", WARNING_MESSAGE);
                jPasswordField1.setText("");
                jPasswordField2.setText("");
            }else{
                String sql = "INSERT INTO `patient`(`patientName`,
`patientUsername`, `patientPassword`) "
                    + "VALUES ('"+fname+"', '"+uname+"', '"+cpass+"')";

                Statement statement = connection.createStatement();
                statement.executeUpdate(sql);

                JOptionPane.showMessageDialog(this, "You have
successfully registered");

                loginPage logpage = new loginPage();
```

```
                logpage.setVisible(true);

                dispose();
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }

    }

    private void jLabel7MouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        loginPage landPage = new loginPage();
        landPage.setVisible(true);

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

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

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

```
            } catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

        // Variables declaration - do not modify
        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.JPasswordField jPasswordField1;
        private javax.swing.JPasswordField jPasswordField2;
        private javax.swing.JTextField jTextField1;
        private javax.swing.JTextField jTextField2;
        private javax.swing.JToggleButton jToggleButton1;
        // End of variables declaration
    }
```

3. landPatient.java

```
    /*
     * Click
    nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
    to change this license
     * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
    to edit this template
     */
    package aol;

    public class landPatient extends javax.swing.JFrame {

        /**
         * Creates new form landPatient
         */
        public landPatient() {
            initComponents();
```

```
    }

    /**
     * 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();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setAutoRequestFocus(false);

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
NOI18N
        jLabel1.setText("Hello, ");

        jButton1.setText("History");
        jButton1.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton1ActionPerformed(evt);
            }
        });

        jButton2.setText("Appointment");
        jButton2.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton2ActionPerformed(evt);
            }
        });

        jButton3.setText("Schedule");
        jButton3.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton3ActionPerformed(evt);
            }
        });
```

```
        jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
NOI18N
        jLabel2.setText("Patient");

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(50, 50, 50)
                .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 109,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(50, Short.MAX_VALUE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel2)
                .addGap(144, 144, 144))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(95, 95, 95)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
                    .addComponent(jLabel1)
                    .addComponent(jLabel2))
                .addGap(60, 60, 60)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment
.BASELINE)
                    .addComponent(jButton1,
javax.swing.GroupLayout.PREFERRED_SIZE, 57,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 57,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                    .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 57,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(60, Short.MAX_VALUE))
        );

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

    private void jButton2ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        listDoctor seeDoctor = new listDoctor();
        seeDoctor.setVisible(true);

        seeDoctor.setPatientName(patientName);
        seeDoctor.setPatientID(patientID);

    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        schPatient schpatient = new schPatient();
        schpatient.setVisible(true);

        schpatient.setPatientName(patientName);
        schpatient.setPatientID(patientID);
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        hstPatient history = new hstPatient();
        history.setVisible(true);

        history.setPatientName(patientName);
    }

    /**
     * @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.ht
ml
         */
        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(landPatient.class.getName()).log(ja
va.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    // End of variables declaration

    private String patientName;
    private String patientID;

    void setPatientName(String patientName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodB
ody
        this.patientName = patientName;
        jLabel2.setText(patientName);

    }
```

```
    void setPatientID(String patientID) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodB
ody
        this.patientID = patientID;
    }

}
```

4. landDoctor.java

```
/*
 * Click
nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

public class landDoctor extends javax.swing.JFrame {

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

    /**
     * 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();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setMinimumSize(new java.awt.Dimension(465, 283));
```

```
        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
NOI18N
        jLabel1.setText("Hello,");

        jButton1.setText("History");
        jButton1.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton1ActionPerformed(evt);
            }
        });


jButton2.setText("<html>\n<center>Appointment<br>Request</br></center>\
n</html>");
        jButton2.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton2ActionPerformed(evt);
            }
        });

        jButton3.setText("Schedule");
        jButton3.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton3ActionPerformed(evt);
            }
        });

        jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
NOI18N
        jLabel2.setText("Doctor");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
```

```
                        .addComponent(jButton1,
    javax.swing.GroupLayout.PREFERRED_SIZE, 109,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton2,
    javax.swing.GroupLayout.PREFERRED_SIZE, 109,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton3,
    javax.swing.GroupLayout.PREFERRED_SIZE, 109,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addContainerGap())

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    jPanel1Layout.createSequentialGroup()
                        .addComponent(jLabel1)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jLabel2)
                        .addGap(104, 104, 104))))
            );
            jPanel1Layout.setVerticalGroup(

    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
    DING)
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    jPanel1Layout.createSequentialGroup()
                    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
    Short.MAX_VALUE)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
    gnment.BASELINE)
                        .addComponent(jLabel1)
                        .addComponent(jLabel2))

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
    gnment.LEADING)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addGap(43, 43, 43)

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
    gnment.BASELINE)
                                .addComponent(jButton1,
    javax.swing.GroupLayout.PREFERRED_SIZE, 57,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addComponent(jButton3,
    javax.swing.GroupLayout.PREFERRED_SIZE, 57,
    javax.swing.GroupLayout.PREFERRED_SIZE)))

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    jPanel1Layout.createSequentialGroup()

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

```
                        .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 57,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap())
        );

        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(45, Short.MAX_VALUE)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(45, 45, 45))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(89, 89, 89)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(50, Short.MAX_VALUE))
        );

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

    private void jButton2ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        approvalPatient approve = new approvalPatient();
        approve.setVisible(true);

        approve.setDoctorName(doctorName);
        approve.setDoctorID(doctorID);
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        schDoctor scheduleDoc = new schDoctor();
        scheduleDoc.setVisible(true);

        scheduleDoc.setDoctorName(doctorName);
        scheduleDoc.setDoctorID(doctorID);
    }
```

```
    private void jButton1ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        hstDoctor history = new hstDoctor();
        history.setVisible(true);

        history.setDoctorName(doctorName);
        history.setDoctorID(doctorID);
    }

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JPanel jPanel1;
    // End of variables declaration

    private String doctorName;
    private String doctorID;

    void setDoctorName(String doctorName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.doctorName = doctorName;
        jLabel2.setText("Dr. " + doctorName);
    }

    void setDoctorID(String doctorID) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.doctorID = doctorID;
    }
}
```

5. hstPatient.java

```
/*
 * Click
nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.text.SimpleDateFormat;
import java.util.Date;
```

```
import javax.swing.table.DefaultTableModel;

public class hstPatient extends javax.swing.JFrame {

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

    /**
     * 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();
        jTable1 = new javax.swing.JTable();
        jLabel1 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowOpened(java.awt.event.WindowEvent evt) {
                formWindowOpened(evt);
            }
        });

        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {

            },
            new String [] {
                "ID Praktek", "Dokter", "Tanggal", "Keluhan", "Status"
            }
        ));
        jScrollPane1.setViewportView(jTable1);

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
NOI18N
        jLabel1.setText("Appointment History");

        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent
evt) {
                jButton1ActionPerformed(evt);
```

```
            }
        });

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

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment
.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(142, 142, 142)
                        .addComponent(jLabel1))
                    .addGroup(layout.createSequentialGroup()
                        .addContainerGap()
                        .addComponent(jButton1)))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addGap(0, 35, Short.MAX_VALUE)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(35, 35, 35))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
39, Short.MAX_VALUE)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 214,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(53, 53, 53))
        );

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

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

```
        // TODO add your handling code here:
        dispose();
    }

    private void formWindowOpened(java.awt.event.WindowEvent evt) {
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";


        String sql = "SELECT a.appointmentID, d.doctorName, a.date,
a.complaint, a.status "
                + "FROM appointment as a INNER JOIN patient as p INNER
JOIN doctor as d "
                + "WHERE p.patientID = a.patientID AND d.doctorID =
a.doctorID "
                + "AND p.patientName = '"+patientName+"' AND (a.status
= 5 OR a.status = 6)";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);



            Statement statement = connection.createStatement();
            ResultSet rs = statement.executeQuery(sql);

            while(rs.next()){
                int aptID = rs.getInt("a.appointmentID");
                String docName = rs.getString("d.doctorname");
                Date aptDate = rs.getDate("a.date");
                String aptComplaint = rs.getString("a.complaint");
                String aptStatus = rs.getString("a.status");

                String aptIDStr = Integer.toString(aptID);

                SimpleDateFormat formatter = new
SimpleDateFormat("dd/MM/yyyy");
                String aptDateString = formatter.format(aptDate);

                String tbData[] = {aptIDStr, docName, aptDateString,
aptComplaint, aptStatus};
                DefaultTableModel tbModel =
(DefaultTableModel)jTable1.getModel();

                tbModel.addRow(tbData);
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
```

```
        }
    }

    /**
     * @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.ht
ml
         */
        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(hstPatient.class.getName()).log(jav
a.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
```

```
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable jTable1;
    // End of variables declaration

    private String patientName;

    void setPatientName(String patientName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodB
ody
        this.patientName = patientName;
    }
}
```

6. schPatient.java

```
/*
 * Click
nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.util.Objects;
import javax.swing.JOptionPane;
import javax.swing.JTextField;

public class schPatient extends javax.swing.JFrame {

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

    /**
     * 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() {

        jButton1 = new javax.swing.JButton();
        jPanel2 = new javax.swing.JPanel();
        jLabel10 = new javax.swing.JLabel();
        jLabel11 = new javax.swing.JLabel();
        jLabel12 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        jLabel13 = new javax.swing.JLabel();
        jButton6 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        jButton3 = new javax.swing.JButton();
        jLabel5 = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();
        jLabel14 = new javax.swing.JLabel();
        jDateChooser1 = new com.toedter.calendar.JDateChooser();
        jComboBox2 = new javax.swing.JComboBox<>();
        jLabel15 = new javax.swing.JLabel();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jLabel7 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jLabel6 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jLabel16 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();


    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowOpened(java.awt.event.WindowEvent evt) {
                formWindowOpened(evt);
            }
        });

        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener()
    {
            public void actionPerformed(java.awt.event.ActionEvent evt)
    {
                jButton1ActionPerformed(evt);
            }
        });

        jLabel10.setFont(new java.awt.Font("Segoe UI", 1, 14)); //
    NOI18N
        jLabel10.setText("Complaint");

        jLabel11.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
    NOI18N
        jLabel11.setText("aptComplaint");
```

```
        jLabel12.setFont(new java.awt.Font("Segoe UI", 1, 14)); //
NOI18N
        jLabel12.setText("Status");

        jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 14)); //
NOI18N
        jLabel2.setText("Appointment ID");

        jLabel13.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel13.setText("aptStatus");

        jButton6.setText("Confirm");
        jButton6.setMaximumSize(new java.awt.Dimension(75, 25));
        jButton6.setMinimumSize(new java.awt.Dimension(75, 25));
        jButton6.setPreferredSize(new java.awt.Dimension(75, 25));
        jButton6.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton6ActionPerformed(evt);
            }
        });

        jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel3.setText("aptID");


jButton2.setText("<html><center>Cancel<br>Appointment</center></html>")
;
        jButton2.setCursor(new
java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
        jButton2.setMaximumSize(new java.awt.Dimension(75, 25));
        jButton2.setMinimumSize(new java.awt.Dimension(75, 25));
        jButton2.setPreferredSize(new java.awt.Dimension(75, 25));
        jButton2.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton2ActionPerformed(evt);
            }
        });

        jLabel4.setFont(new java.awt.Font("Segoe UI", 1, 14)); //
NOI18N
        jLabel4.setText("Doctor");

        jButton3.setText("Reschedule");
        jButton3.setMaximumSize(new java.awt.Dimension(75, 25));
        jButton3.setMinimumSize(new java.awt.Dimension(75, 25));
        jButton3.setPreferredSize(new java.awt.Dimension(75, 25));
        jButton3.addActionListener(new java.awt.event.ActionListener()
{
```

```
            public void actionPerformed(java.awt.event.ActionEvent evt)
    {
                jButton3ActionPerformed(evt);
            }
        });

        jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
    NOI18N
        jLabel5.setText("doctorName");

        jLabel14.setFont(new java.awt.Font("Segoe UI", 1, 14)); //
    NOI18N
        jLabel14.setText("Date");

        jDateChooser1.setDateFormatString("yyyy-MM-dd");

        jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new
    String[] { "08:00", "09:00", "10:00", "11:00", "12:00", "13:00",
    "14:00", "15:00" }));

        jLabel15.setFont(new java.awt.Font("Segoe UI", 1, 14)); //
    NOI18N
        jLabel15.setText("Time");

        jButton4.setText("Cancel");
        jButton4.setMaximumSize(new java.awt.Dimension(75, 25));
        jButton4.setMinimumSize(new java.awt.Dimension(75, 25));
        jButton4.setPreferredSize(new java.awt.Dimension(75, 25));
        jButton4.addActionListener(new java.awt.event.ActionListener()
    {
            public void actionPerformed(java.awt.event.ActionEvent evt)
    {
                jButton4ActionPerformed(evt);
            }
        });

        jButton5.setText("Confirm");
        jButton5.setMaximumSize(new java.awt.Dimension(75, 25));
        jButton5.setMinimumSize(new java.awt.Dimension(75, 25));
        jButton5.setPreferredSize(new java.awt.Dimension(75, 25));
        jButton5.addActionListener(new java.awt.event.ActionListener()
    {
            public void actionPerformed(java.awt.event.ActionEvent evt)
    {
                jButton5ActionPerformed(evt);
            }
        });

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

    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
    DING)
```

```
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                            .addComponent(jLabel14)
                            .addComponent(jDateChooser1,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(48, 48, 48)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                            .addComponent(jLabel15)
                            .addComponent(jComboBox2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                        .addGap(0, 0, Short.MAX_VALUE)
                        .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 103,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(18, 18, 18)
                        .addComponent(jButton5,
javax.swing.GroupLayout.PREFERRED_SIZE, 103,
javax.swing.GroupLayout.PREFERRED_SIZE))))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                    .addComponent(jLabel14)
                    .addComponent(jLabel15))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
```

```
                    .addComponent(jDateChooser1,
javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jComboBox2,
javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
26, Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                    .addComponent(jButton4,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton5,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        );

        jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel7.setText("aptDate");

        jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel9.setText("Time");

        jLabel6.setFont(new java.awt.Font("Segoe UI", 1, 14)); //
NOI18N
        jLabel6.setText("Date");

        jLabel8.setFont(new java.awt.Font("Segoe UI", 1, 14)); //
NOI18N
        jLabel8.setText("Time");

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(6, 6, 6)
                .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addGap(22, 22, 22)
                        .addComponent(jLabel2)
```

```
                            .addGap(40, 40, 40)
                            .addComponent(jLabel3)
                            .addGap(111, 111, 111)
                            .addComponent(jLabel12)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            .addComponent(jLabel13))
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(22, 22, 22)
                            .addComponent(jLabel4)
                            .addGap(100, 100, 100)
                            .addComponent(jLabel5))
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(22, 22, 22)
                            .addComponent(jLabel6)
                            .addGap(115, 115, 115)
                            .addComponent(jLabel7))
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(22, 22, 22)
                            .addComponent(jLabel8)
                            .addGap(113, 113, 113)
                            .addComponent(jLabel9))
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(22, 22, 22)
                            .addComponent(jLabel10)
                            .addGap(77, 77, 77)
                            .addComponent(jLabel11))
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(148, 148, 148)
                            .addComponent(jButton2,
    javax.swing.GroupLayout.PREFERRED_SIZE, 103,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGap(18, 18, 18)
                            .addComponent(jButton3,
    javax.swing.GroupLayout.PREFERRED_SIZE, 103,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGap(18, 18, 18)
                            .addComponent(jButton6,
    javax.swing.GroupLayout.PREFERRED_SIZE, 103,
    javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGroup(jPanel2Layout.createSequentialGroup()
                            .addGap(6, 6, 6)
                            .addComponent(jSeparator1,
    javax.swing.GroupLayout.PREFERRED_SIZE, 487,
    javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGap(0, 6, Short.MAX_VALUE))
            );
            jPanel2Layout.setVerticalGroup(

    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
    DING)
                .addGroup(jPanel2Layout.createSequentialGroup()
                    .addContainerGap()
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addComponent(jLabel2)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                        .addComponent(jLabel3)
                        .addComponent(jLabel12)
                        .addComponent(jLabel13)))
                .addGap(6, 6, 6)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addComponent(jLabel4)
                    .addComponent(jLabel5))
                .addGap(6, 6, 6)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addComponent(jLabel6)
                    .addComponent(jLabel7))
                .addGap(6, 6, 6)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addComponent(jLabel8)
                    .addComponent(jLabel9))
                .addGap(6, 6, 6)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addComponent(jLabel10)
                    .addComponent(jLabel11))
                .addGap(38, 38, 38)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton3,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jButton6,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(18, 18, 18)
                .addComponent(jSeparator1,
javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(6, 6, 6)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
```

```
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addContainerGap(17, Short.MAX_VALUE))
                );

                jLabel16.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
        NOI18N
                jLabel16.setText("You have no upcoming schedule.");

                jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
        NOI18N
                jLabel1.setText("Your Schedule");

                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()

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
        LEADING)
                            .addComponent(jPanel2,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addGroup(layout.createSequentialGroup()
                                .addComponent(jButton1)
                                .addGap(0, 0, Short.MAX_VALUE))
                            .addGroup(layout.createSequentialGroup()
                                .addComponent(jLabel1)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                .addComponent(jLabel16)))
                        .addContainerGap())
                );
                layout.setVerticalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addContainerGap()
                        .addComponent(jButton1)
                        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
        BASELINE)
                            .addComponent(jLabel1)
                            .addComponent(jLabel16))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jPanel2,
        javax.swing.GroupLayout.PREFERRED_SIZE,
```

```
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
        );

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

    private void jButton2ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        int userInput = JOptionPane.showOptionDialog(this, "Do you
confirm the cancellation of the appointment?", "Cancel Appointment",
JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE, null, null,
null);

        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            String sql = "UPDATE `appointment` SET `status` = 6 "
                + "WHERE appointmentID = '"+appointmentID+"'";


            if(userInput == 0){
                Statement statement = connection.createStatement();
                statement.executeUpdate(sql);

                JOptionPane.showMessageDialog(this, "Cancelation
Success", "Cancel Appointment", JOptionPane.PLAIN_MESSAGE);
                dispose();
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        dispose();
    }

    private void formWindowOpened(java.awt.event.WindowEvent evt) {
        // TODO add your handling code here:
        jPanel1.setVisible(false);
```

```
        jLabel16.setVisible(false);

        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        String sql = "SELECT a.appointmentID, d.doctorName, a.date,
    a.time, a.complaint, a.status "
                    + "FROM patient as p INNER JOIN doctor as d INNER
    JOIN appointment as a "
                    + "WHERE (p.patientID = a.patientID AND d.doctorID
    = a.doctorID) "
                    + "AND (a.status = 1 OR a.status = 2 OR a.status =
    3 OR a.status = 4) "
                    + "AND p.patientID = '"+patientID+"'";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
    username, password);

            Statement statement = connection.createStatement();
            ResultSet rs = statement.executeQuery(sql);

            if (!rs.isBeforeFirst() ) {
                System.out.println("No data");
                jPanel2.setVisible(false);
                jLabel16.setVisible(true);
            }

            while(rs.next()){
                jLabel3.setText(rs.getString("a.appointmentID"));
                jLabel5.setText(rs.getString("d.doctorName"));
                jLabel7.setText(rs.getString("a.date"));
                jLabel9.setText(rs.getString("a.time"));
                jLabel11.setText(rs.getString("a.complaint"));
                jLabel13.setText((rs.getString("a.status")));

                appointmentID = rs.getString("a.appointmentID");
                appointmentStatus = rs.getString("a.Status");
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }
    }

    private void jButton5ActionPerformed(java.awt.event.ActionEvent
    evt) {
        // TODO add your handling code here:
        int userInput = JOptionPane.showOptionDialog(this, "Do you
    confirm the reschedule of the appointment?", "Reschedule Appointment",
```

```
JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE, null, null,
null);


        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            String uptDate =
((JTextField)jDateChooser1.getDateEditor().getUiComponent()).getText();
            String uptTime = (String) jComboBox2.getSelectedItem();

            String sql = "UPDATE `appointment` SET `date` =
'"+uptDate+"', `time` = '"+uptTime+"', `status` = 3 "
                + "WHERE appointmentID = '"+appointmentID+"'";


            if(userInput == 0){
                Statement statement = connection.createStatement();
                statement.executeUpdate(sql);

                JOptionPane.showMessageDialog(this, "Reschedule
Success", "Reschedule Appointment", JOptionPane.PLAIN_MESSAGE);
                dispose();
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        if(!(appointmentStatus.equals("Reschedule (by Patient)"))){
            jPanel1.setVisible(true);
        }else{
            JOptionPane.showMessageDialog(this, "Can't change the
schedule! Wait response from doctor.", "Alert!",
JOptionPane.WARNING_MESSAGE);
        }
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
```

```
((JTextField)jDateChooser1.getDateEditor().getUiComponent()).setText("");
        jComboBox2.setSelectedIndex(0);
        jPanel1.setVisible(false);
    }

    private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here
        if(Objects.equals("Reschedule (by Doctor)", appointmentStatus) || Objects.equals("Approved", appointmentStatus)){
            String url = "jdbc:mysql://localhost:3306/aol_oop";
            String username = "root";
            String password = "";

            try{
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection connection = DriverManager.getConnection(url, username, password);

                String sql = "UPDATE `appointment` SET `status` = 2 "
                    + "WHERE appointmentID = '"+appointmentID+"'";

                Statement statement = connection.createStatement();
                statement.executeUpdate(sql);
                dispose();

                JOptionPane.showMessageDialog(this, "Your confirmation is duly noted.");

                connection.close();

            }catch(Exception e){
                System.out.println(e.getMessage());
            }
        }else{
            JOptionPane.showMessageDialog(this, "Can't confirm the schedule! Wait response from doctor.", "Alert!", 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.htm
l
         */
        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(schPatient.class.getName()).log(java
.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JButton jButton4;
    private javax.swing.JButton jButton5;
    private javax.swing.JButton jButton6;
    private javax.swing.JComboBox<String> jComboBox2;
    private com.toedter.calendar.JDateChooser jDateChooser1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel13;
    private javax.swing.JLabel jLabel14;
```

```
    private javax.swing.JLabel jLabel15;
    private javax.swing.JLabel jLabel16;
    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 jPanel2;
    private javax.swing.JSeparator jSeparator1;
    // End of variables declaration

    private String patientName;
    private String patientID;
    private String appointmentID;
    private String appointmentStatus;

    void setPatientName(String patientName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.patientName = patientName;
    }

    void setPatientID(String patientID) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.patientID = patientID;
    }
}
```

7. formAppointment.java

```
/*
 * Click
nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
```

```
import java.sql.Statement;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.WARNING_MESSAGE;
import javax.swing.JTextField;

public class formAppointment extends javax.swing.JFrame {

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

    /**
     * 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() {

        jButton3 = new javax.swing.JButton();
        jPanel1 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jLabel9 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        jLabel3 = new javax.swing.JLabel();
        jDateChooser1 = new com.toedter.calendar.JDateChooser();
        jLabel6 = new javax.swing.JLabel();
        jComboBox1 = new javax.swing.JComboBox<>();
        jLabel7 = new javax.swing.JLabel();
        jLabel8 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTextArea1 = new javax.swing.JTextArea();
        jComboBox2 = new javax.swing.JComboBox<>();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowActivated(java.awt.event.WindowEvent evt)
{
                formWindowActivated(evt);
            }
            public void windowOpened(java.awt.event.WindowEvent evt) {
                formWindowOpened(evt);
            }
        });

        jButton3.setText("Back");
```

```
        jButton3.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton3ActionPerformed(evt);
            }
        });

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
NOI18N
        jLabel1.setText("Form Appointment");

        jLabel9.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel9.setText("Time");

        jButton1.setText("Submit");
        jButton1.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton1ActionPerformed(evt);
            }
        });

        jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel2.setText("Name");

        jButton2.setText("Reset");
        jButton2.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton2ActionPerformed(evt);
            }
        });

        jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel3.setText("patientName");

        jDateChooser1.setDateFormatString("yyyy-MM-dd");

        jLabel6.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel6.setText("Doctor");

        jLabel7.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel7.setText("Date");

        jLabel8.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel8.setText("Complaint");
```

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

        jComboBox2.setModel(new javax.swing.DefaultComboBoxModel<>(new
String[] { "08:00", "09:00", "10:00", "11:00", "12:00", "13:00",
"14:00", "15:00" }));

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(103, 103, 103)
                        .addComponent(jLabel1))

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING, false)
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addComponent(jButton2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jButton1))
                        .addComponent(jComboBox1,
javax.swing.GroupLayout.Alignment.LEADING, 0,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.LEADING)
                        .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                                .addComponent(jLabel7)
                                .addComponent(jDateChooser1,
javax.swing.GroupLayout.PREFERRED_SIZE, 150,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                                .addComponent(jLabel9)
                                .addComponent(jComboBox2,
javax.swing.GroupLayout.PREFERRED_SIZE,
```

```
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGap(112, 112, 112))

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
                                .addComponent(jLabel8,
javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jLabel6,
javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup()
                                    .addComponent(jLabel2)
                                    .addGap(18, 18, 18)
                                    .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE, 251,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                            .addGap(117, 117, 117))))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(jLabel1)
                .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(jLabel3))
                .addGap(40, 40, 40)
                .addComponent(jLabel6)

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addComponent(jComboBox1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                            .addComponent(jLabel7)
                            .addComponent(jLabel9))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(jDateChooser1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                    .addComponent(jComboBox2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jLabel8)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 70,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(32, 32, 32)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                    .addComponent(jButton1)
                    .addComponent(jButton2))
                .addContainerGap())
        );

        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()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
                    .addComponent(jButton3)
                    .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        );
        layout.setVerticalGroup(

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

```
                .addContainerGap()
                .addComponent(jButton3)
                .addGap(18, 18, 18)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap())
        );

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

    private void jButton3ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        dispose();
    }

    private void formWindowActivated(java.awt.event.WindowEvent evt) {
        // TODO add your handling code here:
    }

    private String[][] arrData = new String[100][];

    private void formWindowOpened(java.awt.event.WindowEvent evt) {
        // TODO add your handling code here:
        jLabel3.setText(patientName);

        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        String sql = "SELECT d.doctorName "
                   + "FROM doctor AS d";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            Statement statement = connection.createStatement();
            ResultSet rs = statement.executeQuery(sql);

            while(rs.next()){
                String docName = rs.getString("d.doctorname");
                jComboBox1.addItem(docName);
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }
```

```
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        String selectedDoctor = (String) jComboBox1.getSelectedItem();
        String selectedDate =
((JTextField)jDateChooser1.getDateEditor().getUiComponent()).getText();
        String selectedTime = (String) jComboBox2.getSelectedItem();
        String complaint = jTextArea1.getText();


        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            String sql1 = "SELECT d.doctorid FROM doctor as d WHERE
d.doctorname = '"+selectedDoctor+"'";

            Statement statement1 = connection.createStatement();
            ResultSet rs1 = statement1.executeQuery(sql1);

            while(rs1.next()){
                selectedDoctor = rs1.getString("d.doctorid");
            }

            if(selectedDate.isEmpty()){
                JOptionPane.showMessageDialog(this, "Please enter your
preferred appointment date.", "Appointment Failed", WARNING_MESSAGE);
            }else if(complaint.isEmpty()){
                JOptionPane.showMessageDialog(this, "Please submit your
complaint." , "", WARNING_MESSAGE);
            }else{
                String sql2 = "INSERT INTO `appointment`(doctorID,
patientID, date, time, complaint, status) "
                + "VALUES ('"+selectedDoctor+"', '"+patientID+"',
'"+selectedDate+"', '"+selectedTime+"', '"+complaint+"', '1')";

                Statement statement2 = connection.createStatement();
                statement2.executeUpdate(sql2);

                JOptionPane.showMessageDialog(this, "Your appointment
is pending confirmation. We'll be in touch soon!");
            }

            connection.close();
            dispose();

        }catch(Exception e){
            System.out.println(e.getMessage());
```

```
        }
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        jComboBox1.setSelectedIndex(0);
        jComboBox2.setSelectedIndex(0);

((JTextField)jDateChooser1.getDateEditor().getUiComponent()).setText("
");
        jTextArea1.setText("");

    }

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JComboBox<String> jComboBox1;
    private javax.swing.JComboBox<String> jComboBox2;
    private com.toedter.calendar.JDateChooser jDateChooser1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    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.JScrollPane jScrollPane1;
    private javax.swing.JTextArea jTextArea1;
    // End of variables declaration

    private String patientName;
    private String patientID;

    void setPatientName(String patientName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.patientName = patientName;
    }

    void setPatientID(String patientID) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.patientID = patientID;
    }
}
```

8. listDoctor.java

```
/*
```

```
 * Click
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 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.sql.Time;
import java.text.SimpleDateFormat;
import javax.swing.table.DefaultTableModel;

public class listDoctor extends javax.swing.JFrame {

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

    /**
     * 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() {

        jButton1 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jButton2 = new javax.swing.JButton();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowActivated(java.awt.event.WindowEvent evt)
{
                formWindowActivated(evt);
            }
            public void windowOpened(java.awt.event.WindowEvent evt) {
                formWindowOpened(evt);
            }
        });

        jButton1.setText("Back");
```

```
        jButton1.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton1ActionPerformed(evt);
            }
        });

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
NOI18N
        jLabel1.setText("Available Doctor");

        jButton2.setText("Book an Appointment");
        jButton2.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton2ActionPerformed(evt);
            }
        });

        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {

            },
            new String [] {
                "Nama", "Jenis Kelamin", "Mulai Praktek", "Selesai
Praktek"
            }
        ));
        jScrollPane1.setViewportView(jTable1);

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

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

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
                            .addGroup(layout.createSequentialGroup()
                                .addGap(65, 65, 65)
                                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 399,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGroup(layout.createSequentialGroup()
                                .addGap(170, 170, 170)
                                .addComponent(jLabel1))
                            .addGroup(layout.createSequentialGroup()
```

```
                                    .addContainerGap()
                                    .addComponent(jButton1)))
                            .addGap(0, 59, Short.MAX_VALUE))

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    layout.createSequentialGroup()
                            .addGap(0, 0, Short.MAX_VALUE)
                            .addComponent(jButton2)))
                    .addContainerGap())
            );
            layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
    layout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jButton1)
                    .addGap(13, 13, 13)
                    .addComponent(jLabel1)
                    .addGap(29, 29, 29)
                    .addComponent(jScrollPane1,
    javax.swing.GroupLayout.PREFERRED_SIZE, 214,
    javax.swing.GroupLayout.PREFERRED_SIZE)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
    27, Short.MAX_VALUE)
                    .addComponent(jButton2)
                    .addContainerGap())
            );

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

        private void jButton1ActionPerformed(java.awt.event.ActionEvent
    evt) {
            // TODO add your handling code here:
            dispose();
        }

        private void jButton2ActionPerformed(java.awt.event.ActionEvent
    evt) {
            // TODO add your handling code here:
            formAppointment setAppoint = new formAppointment();
            setAppoint.setVisible(true);

            setAppoint.setPatientName(patientName);
            setAppoint.setPatientID(patientID);

            hide();
        }

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

```
    }

    private void formWindowOpened(java.awt.event.WindowEvent evt) {
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        String sql = "SELECT d.doctorName, d.doctorGender,
w.wTimeBegin, w.wTimeEnd "
                    + "FROM doctor AS d INNER JOIN worktime AS w "
                    + "where w.workID = d.workID";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);



            Statement statement = connection.createStatement();
            ResultSet rs = statement.executeQuery(sql);

            while(rs.next()){
                String docName = rs.getString("d.doctorname");
                String docGender = rs.getString("d.doctorgender");
                Time docTimeBegin = rs.getTime("w.wTimeBegin");
                Time docTimeEnd = rs.getTime("w.wTimeEnd");

                SimpleDateFormat formatter = new
SimpleDateFormat("HH:mm");
                String docTimeBeginStr =
formatter.format(docTimeBegin);
                String docTimeEndStr = formatter.format(docTimeEnd);


                String tbData[] = {docName, docGender, docTimeBeginStr,
docTimeEndStr};
                DefaultTableModel tbModel =
(DefaultTableModel)jTable1.getModel();

                tbModel.addRow(tbData);
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }
    }

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable jTable1;
    // End of variables declaration

    private String patientName;
    private String patientID;
```

```
    void setPatientName(String patientName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.patientName = patientName;
    }

    void setPatientID(String patientID) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.patientID = patientID;
    }
}
```

9. hstDoctor.java

```
/*
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to edit this template
 */
package aol;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.table.DefaultTableModel;

public class hstDoctor extends javax.swing.JFrame {

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

    /**
     * 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();
        jTable1 = new javax.swing.JTable();
        jLabel1 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();


    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowOpened(java.awt.event.WindowEvent evt) {
                formWindowOpened(evt);
            }
        });

        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {

            },
            new String [] {
                "Appointment ID", "Pasien", "Tanggal", "Keluhan",
    "Status"
            }
        ));
        jScrollPane1.setViewportView(jTable1);

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 24)); //
    NOI18N
        jLabel1.setText("Appointment History");

        jButton1.setText("Back");
        jButton1.addActionListener(new java.awt.event.ActionListener()
    {
            public void actionPerformed(java.awt.event.ActionEvent evt)
    {
                jButton1ActionPerformed(evt);
            }
        });

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

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

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
    LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(142, 142, 142)
```

```
                        .addComponent(jLabel1))
                    .addGroup(layout.createSequentialGroup()
                        .addContainerGap()
                        .addComponent(jButton1)))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addGap(0, 35, Short.MAX_VALUE)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(35, 35, 35))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
39, Short.MAX_VALUE)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 214,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(53, 53, 53))
        );

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

    private void jButton1ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        dispose();
    }

    private void formWindowOpened(java.awt.event.WindowEvent evt) {
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";


        String sql = "SELECT a.appointmentID, p.patientname, a.date,
a.complaint, a.status "
                + "FROM appointment as a INNER JOIN patient as p INNER
JOIN doctor as d "
```

```
                + "WHERE p.patientID = a.patientID AND d.doctorID =
a.doctorID "
                + "AND d.doctorID = '"+doctorID+"' AND (a.status = 5 OR
a.status = 6)";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);



            Statement statement = connection.createStatement();
            ResultSet rs = statement.executeQuery(sql);

            while(rs.next()){
                int aptID = rs.getInt("a.appointmentID");
                String patientName = rs.getString("p.patientname");
                Date aptDate = rs.getDate("a.date");
                String aptComplaint = rs.getString("a.complaint");
                String aptStatus = rs.getString("a.status");

                String aptIDStr = Integer.toString(aptID);

                SimpleDateFormat formatter = new
SimpleDateFormat("dd/MM/yyyy");
                String aptDateString = formatter.format(aptDate);

                String tbData[] = {aptIDStr, patientName,
aptDateString, aptComplaint, aptStatus};
                DefaultTableModel tbModel =
(DefaultTableModel)jTable1.getModel();

                tbModel.addRow(tbData);
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }
    }

    /**
     * @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.htm
l
```

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

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JTable jTable1;
    // End of variables declaration

    private String doctorName;
    private String doctorID;

    void setDoctorName(String doctorName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.doctorName = doctorName;
    }
```

```
    void setDoctorID(String doctorID) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.doctorID = doctorID;
    }
}
```

10. schDoctor.java

```
/*
 * Click
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to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.JOptionPane;
import static javax.swing.JOptionPane.WARNING_MESSAGE;
import javax.swing.table.DefaultTableModel;

public class schDoctor extends javax.swing.JFrame {

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

    /**
     * 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() {

        jButton1 = new javax.swing.JButton();
        jScrollPane1 = new javax.swing.JScrollPane();
```

```
            jTable1 = new javax.swing.JTable();
            jLabel1 = new javax.swing.JLabel();
            jLabel2 = new javax.swing.JLabel();
            jScrollPane2 = new javax.swing.JScrollPane();
            jTable2 = new javax.swing.JTable();
            jLabel3 = new javax.swing.JLabel();
            jButton2 = new javax.swing.JButton();
            jLabel4 = new javax.swing.JLabel();
            jLabel5 = new javax.swing.JLabel();


    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
            addWindowListener(new java.awt.event.WindowAdapter() {
                public void windowOpened(java.awt.event.WindowEvent evt) {
                    formWindowOpened(evt);
                }
            });

            jButton1.setText("Back");
            jButton1.addActionListener(new java.awt.event.ActionListener()
    {
                public void actionPerformed(java.awt.event.ActionEvent evt)
    {
                    jButton1ActionPerformed(evt);
                }
            });

            jTable1.setModel(new javax.swing.table.DefaultTableModel(
                new Object [][] {

                },
                new String [] {
                    "AppointmentID", "Patient", "Date", "Time", "Complaint"
                }
            ));
            jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
                public void mouseClicked(java.awt.event.MouseEvent evt) {
                    jTable1MouseClicked(evt);
                }
            });
            jScrollPane1.setViewportView(jTable1);

            jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 18)); //
    NOI18N
            jLabel1.setText("Upcoming Schedule");

            jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 18)); //
    NOI18N
            jLabel2.setText("Waiting Approval");

            jTable2.setModel(new javax.swing.table.DefaultTableModel(
                new Object [][] {

                },
                new String [] {
```

```
                "AppointmentID", "Patient", "Date", "Time",
"Complaint", "Status"
            }
        ));
        jScrollPane2.setViewportView(jTable2);

        jLabel3.setFont(new java.awt.Font("Segoe UI", 1, 18)); //
NOI18N
        jLabel3.setText("Appointment Completed");

        jButton2.setText("Done");
        jButton2.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton2ActionPerformed(evt);
            }
        });

        jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel4.setText("Appointment ID");

        jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 14)); //
NOI18N
        jLabel5.setText("aptID");

        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(jLabel1)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(44, 44, 44)
                        .addComponent(jLabel4)
                        .addGap(18, 18, 18)
                        .addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addComponent(jButton2))
                    .addGroup(layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
                              .addComponent(jScrollPane1,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 452,
javax.swing.GroupLayout.PREFERRED_SIZE)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                 .addComponent(jButton1)

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

.addGroup(layout.createSequentialGroup()
                                          .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
311, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                                          .addGap(34, 34, 34)
                                          .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 452,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                                 .addComponent(jLabel3)))))
                .addGap(34, 34, 34))
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jButton1)
                .addGap(35, 35, 35)
                .addComponent(jLabel1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 125,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)
                .addComponent(jLabel3)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
                    .addComponent(jLabel4)
                    .addComponent(jLabel5)
                    .addComponent(jButton2))
                .addGap(30, 30, 30)
                .addComponent(jLabel2)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 125,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(25, 25, 25))
        );

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

    private void formWindowOpened(java.awt.event.WindowEvent evt) {
        // TODO add your handling code here:
        jLabel5.setVisible(false);

        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        int aptID;
        String patientName;
        Date aptDate;
        String aptTime;
        String aptComplaint;
        String aptStatus;

        String sql1 = "SELECT a.appointmentID, p.patientName, a.date,
a.time, a.complaint, a.status "
                + "FROM appointment as a INNER JOIN doctor as d INNER
JOIN patient as p "
                + "WHERE a.doctorID = d.doctorID AND a.patientID =
p.patientID "
                + "AND a.doctorID = '"+doctorID+"' AND a.status = 2";

        String sql2 = "SELECT a.appointmentID, p.patientName, a.date,
a.time, a.complaint, a.status "
                + "FROM appointment as a INNER JOIN doctor as d INNER
JOIN patient as p "
                + "WHERE a.doctorID = d.doctorID AND a.patientID =
p.patientID "
                + "AND a.doctorID = '"+doctorID+"' AND (a.status = 4)";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            Statement statement1 = connection.createStatement();
            ResultSet rs1 = statement1.executeQuery(sql1);

            while(rs1.next()){
                aptID = rs1.getInt("a.appointmentID");
                patientName = rs1.getString("p.patientname");
                aptDate = rs1.getDate("a.date");
```

```
                aptTime = rs1.getString("a.time");
                aptComplaint = rs1.getString("a.complaint");
                aptStatus = rs1.getString("a.status");

                String aptIDStr = Integer.toString(aptID);

                SimpleDateFormat formatter = new
SimpleDateFormat("dd/MM/yyyy");
                String aptDateString = formatter.format(aptDate);

                String tbData1[] = {aptIDStr, patientName,
aptDateString, aptTime, aptComplaint};
                DefaultTableModel tbModel1 =
(DefaultTableModel)jTable1.getModel();

                tbModel1.addRow(tbData1);

            }

            Statement statement2 = connection.createStatement();
            ResultSet rs2 = statement2.executeQuery(sql2);

            while(rs2.next()){
                aptID = rs2.getInt("a.appointmentID");
                patientName = rs2.getString("p.patientname");
                aptDate = rs2.getDate("a.date");
                aptTime = rs2.getString("a.time");
                aptComplaint = rs2.getString("a.complaint");
                aptStatus = rs2.getString("a.status");

                String aptIDStr = Integer.toString(aptID);

                SimpleDateFormat formatter = new
SimpleDateFormat("dd/MM/yyyy");
                String aptDateString = formatter.format(aptDate);

                String tbData2[] = {aptIDStr, patientName,
aptDateString, aptTime, aptComplaint, aptStatus};
                DefaultTableModel tbModel2 =
(DefaultTableModel)jTable2.getModel();

                tbModel2.addRow(tbData2);
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());

        }

    }

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

```
        // TODO add your handling code here:
        dispose();
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        String selectedID = jLabel5.getText();

        String sql = "UPDATE `appointment` SET `status` = 5 "
                + "WHERE `appointmentID` = '"+selectedID+"'";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            Statement statement = connection.createStatement();

            if(selectedID.compareTo("aptID") != 0){
                statement.executeUpdate(sql);

                JOptionPane.showMessageDialog(this, "Appointment
finished");
            }else{
                JOptionPane.showMessageDialog(this, "Please select one
appointment ID from the table above.", "Failed", WARNING_MESSAGE);
            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }

        schDoctor schdoc = new schDoctor();
        schdoc.setVisible(true);

        schdoc.setDoctorName(doctorName);
        schdoc.setDoctorID(doctorID);

        dispose();
    }

    private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {
        // TODO add your handling code here:
        int col = 0;
        int row = jTable1.getSelectedRow();
        String selectedID = jTable1.getModel().getValueAt(row,
col).toString();
        jLabel5.setText(selectedID);
```

```
            jLabel5.setVisible(true);
        }

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

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

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

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

        // Variables declaration - do not modify
        private javax.swing.JButton jButton1;
        private javax.swing.JButton jButton2;
```

```
    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.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JTable jTable1;
    private javax.swing.JTable jTable2;
    // End of variables declaration

    private String doctorName;
    private String doctorID;

    void setDoctorName(String doctorName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.doctorName = doctorName;
    }

    void setDoctorID(String doctorID) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.doctorID = doctorID;
    }
}
```

11. approvalPatient.java

```
/*
 * Click
nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt
to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java
to edit this template
 */
package aol;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.JOptionPane;
```

```
import static javax.swing.JOptionPane.WARNING_MESSAGE;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

public class approvalPatient extends javax.swing.JFrame {

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

    /**
     * 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() {

        jToggleButton1 = new javax.swing.JToggleButton();
        jScrollPane1 = new javax.swing.JScrollPane();
        jPanel2 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jPanel1 = new javax.swing.JPanel();
        jLabel12 = new javax.swing.JLabel();
        jLabel10 = new javax.swing.JLabel();
        jDateChooser1 = new com.toedter.calendar.JDateChooser();
        jLabel11 = new javax.swing.JLabel();
        jComboBox1 = new javax.swing.JComboBox<>();
        jButton3 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jScrollPane2 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jButton2 = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
        setMinimumSize(new java.awt.Dimension(574, 500));
        addWindowListener(new java.awt.event.WindowAdapter() {
            public void windowOpened(java.awt.event.WindowEvent evt) {
                formWindowOpened(evt);
            }
        });

        jToggleButton1.setText("Back");
```

```
        jToggleButton1.addActionListener(new
    java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt)
    {
                jToggleButton1ActionPerformed(evt);
            }
        });

        jScrollPane1.setBorder(null);
        jScrollPane1.setMinimumSize(new java.awt.Dimension(450, 352));
        jScrollPane1.setPreferredSize(new java.awt.Dimension(450,
    352));

        jLabel1.setFont(new java.awt.Font("sansserif", 1, 18)); //
    NOI18N
        jLabel1.setText("Appointment Request");

        jPanel1.setRequestFocusEnabled(false);

        jLabel12.setFont(new java.awt.Font("sansserif", 1, 14)); //
    NOI18N
        jLabel12.setText("New Schedule");

        jLabel10.setText("Date");

        jDateChooser1.setDateFormatString("yyyy-MM-dd");

        jLabel11.setText("Time");

        jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new
    String[] { "08:00", "09:00", "10:00", "11:00", "12:00", "13:00",
    "14:00", "15:00" }));

        jButton3.setText("Reschedule");
        jButton3.addActionListener(new java.awt.event.ActionListener()
    {
            public void actionPerformed(java.awt.event.ActionEvent evt)
    {
                jButton3ActionPerformed(evt);
            }
        });

        jLabel2.setText("AppointmentID");

        jLabel3.setText("aptID");

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

    jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
    DING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .addContainerGap()
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()
                                .addComponent(jLabel10)
                                .addGap(18, 18, 18)
                                .addComponent(jDateChooser1,
javax.swing.GroupLayout.PREFERRED_SIZE, 155,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanel1Layout.createSequentialGroup()
                                .addComponent(jLabel11)
                                .addGap(18, 18, 18)
                                .addComponent(jComboBox1,
javax.swing.GroupLayout.PREFERRED_SIZE, 110,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                            .addGap(0, 0, Short.MAX_VALUE))
                        .addGroup(jPanel1Layout.createSequentialGroup()
                            .addComponent(jLabel12)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                            .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            .addComponent(jLabel3)
                            .addGap(289, 289, 289))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                            .addGap(0, 0, Short.MAX_VALUE)
                            .addComponent(jButton3))
                        .addComponent(jSeparator1)))
            );
            jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addContainerGap()
                    .addComponent(jSeparator1,
javax.swing.GroupLayout.PREFERRED_SIZE, 11,
javax.swing.GroupLayout.PREFERRED_SIZE)

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                        .addComponent(jLabel12)
                        .addComponent(jLabel2)
```

```
                    .addComponent(jLabel3))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.LEADING)
                    .addComponent(jLabel10)
                    .addComponent(jDateChooser1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                    .addComponent(jLabel11)
                    .addComponent(jComboBox1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
15, Short.MAX_VALUE)
                .addComponent(jButton3)
                .addContainerGap())
        );

        jTable1.setModel(new javax.swing.table.DefaultTableModel(
            new Object [][] {

            },
            new String [] {
                "AppointmentID", "Patient", "Date", "Time", "Complaint"
            }
        ));
        jScrollPane2.setViewportView(jTable1);

        jButton2.setText("Approve");
        jButton2.setMaximumSize(new java.awt.Dimension(90, 23));
        jButton2.setMinimumSize(new java.awt.Dimension(90, 23));
        jButton2.setPreferredSize(new java.awt.Dimension(90, 23));
        jButton2.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
                jButton2ActionPerformed(evt);
            }
        });

        jButton1.setText("Reschedule");
        jButton1.addActionListener(new java.awt.event.ActionListener()
{
            public void actionPerformed(java.awt.event.ActionEvent evt)
{
```

```
                jButton1ActionPerformed(evt);
            }
        });

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

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
                    .addGroup(jPanel2Layout.createSequentialGroup()
                        .addContainerGap()
                        .addComponent(jButton1)
                        .addGap(18, 18, 18)
                        .addComponent(jButton2,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING, false)

.addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel2Layout.createSequentialGroup()
                            .addContainerGap()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.TRAILING)
                                .addComponent(jLabel1,
javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 551,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                        .addComponent(jPanel1,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
                .addContainerGap(409, Short.MAX_VALUE))
        );
        jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEA
DING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel2Layout.createSequentialGroup()
                .addGap(0, 0, 0)
                .addComponent(jLabel1)
                .addGap(18, 18, 18)
                .addComponent(jScrollPane2,
javax.swing.GroupLayout.PREFERRED_SIZE, 194,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

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

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Ali
gnment.BASELINE)
                    .addComponent(jButton2,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(jButton1))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(jPanel1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(30, 30, 30))
        );

        jScrollPane1.setViewportView(jPanel2);

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

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jToggleButton1)
                .addGap(0, 0, Short.MAX_VALUE))
            .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 574, Short.MAX_VALUE)
        );
        layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jToggleButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 465, Short.MAX_VALUE))
        );

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

    private void
jToggleButton1ActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        dispose();

    }
```

```
    private void formWindowOpened(java.awt.event.WindowEvent evt) {
        // TODO add your handling code here:
        jPanel1.setVisible(false);

        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";


        String sql = "SELECT a.appointmentID, p.patientname, a.date,
a.time, a.complaint, a.status "
                + "FROM appointment as a INNER JOIN patient as p INNER
JOIN doctor as d "
                + "WHERE p.patientID = a.patientID AND d.doctorID =
a.doctorID "
                + "AND d.doctorID = '"+doctorID+"' AND (a.status = 1 OR
a.status = 3)";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            Statement statement = connection.createStatement();
            ResultSet rs = statement.executeQuery(sql);

            while(rs.next()){
                int aptID = rs.getInt("a.appointmentID");
                String patientName = rs.getString("p.patientname");
                Date aptDate = rs.getDate("a.date");
                String aptTime = rs.getString("a.time");
                String aptComplaint = rs.getString("a.complaint");
                String aptStatus = rs.getString("a.status");

                String aptIDStr = Integer.toString(aptID);

                SimpleDateFormat formatter = new
SimpleDateFormat("dd/MM/yyyy");
                String aptDateString = formatter.format(aptDate);

                String tbData[] = {aptIDStr, patientName,
aptDateString, aptTime, aptComplaint};
                DefaultTableModel tbModel =
(DefaultTableModel)jTable1.getModel();

                tbModel.addRow(tbData);

            }

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());

        }
```

```
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        jPanel1.setVisible(true);
        int col = 0;
        int row = jTable1.getSelectedRow();
        String selectedID = jTable1.getModel().getValueAt(row,
col).toString();
        jLabel3.setText(selectedID);
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent
evt) {
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        int col = 0;
        int row = jTable1.getSelectedRow();
        String selectedID = jTable1.getModel().getValueAt(row,
col).toString();

        String sql = "UPDATE `appointment` SET `status` = 2 "
                + "WHERE `appointmentID` = '"+selectedID+"'";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            Statement statement = connection.createStatement();
            statement.executeUpdate(sql);

            JOptionPane.showMessageDialog(this, "Approval Succeed!");

            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }

        approvalPatient aptPatient = new approvalPatient();
        aptPatient.setVisible(true);

        aptPatient.setDoctorName(doctorName);
        aptPatient.setDoctorID(doctorID);

        dispose();
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent
evt) {
```

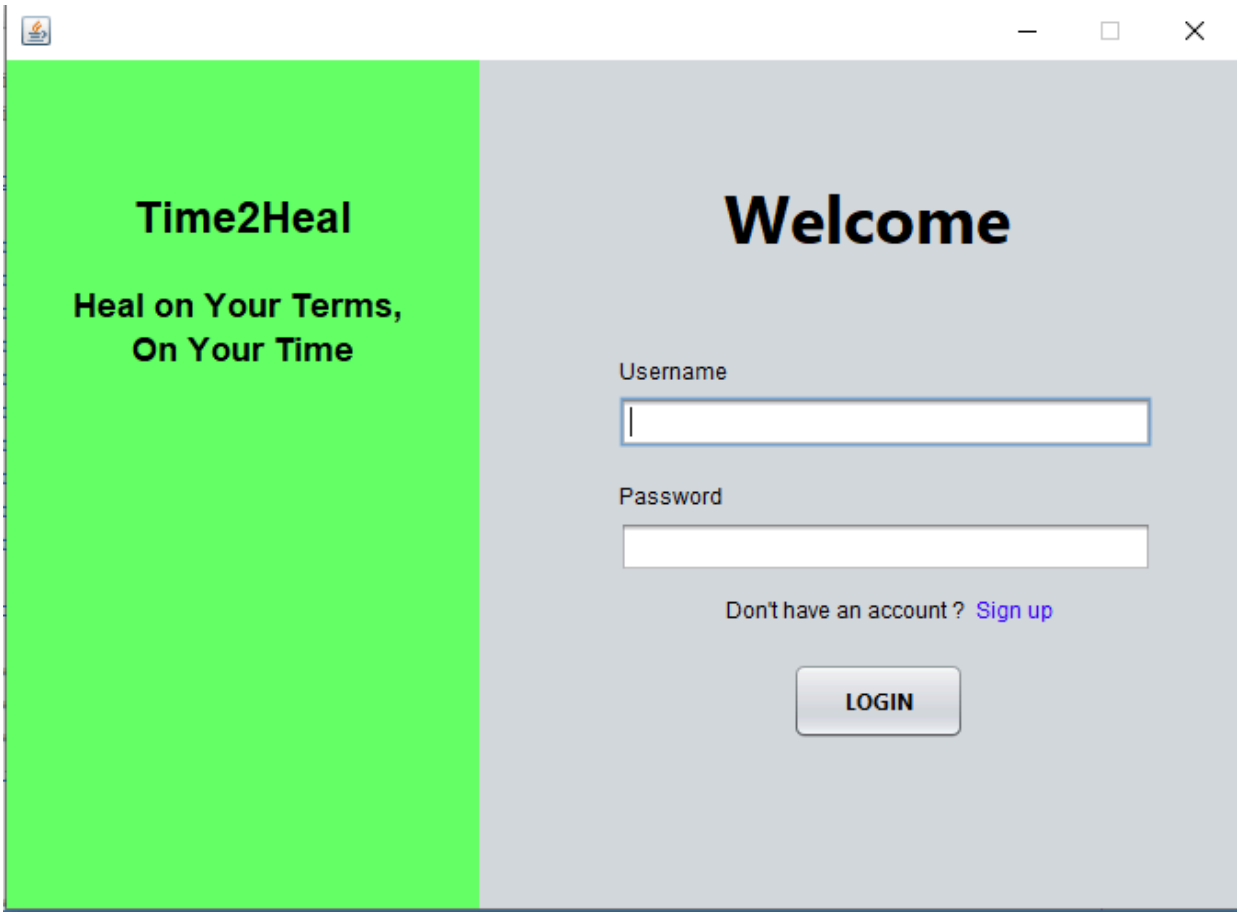
```
        // TODO add your handling code here:
        String url = "jdbc:mysql://localhost:3306/aol_oop";
        String username = "root";
        String password = "";

        String selectedID = jLabel3.getText();
        String selectedDate =
((JTextField)jDateChooser1.getDateEditor().getUiComponent()).getText();
        String selectedTime = (String) jComboBox1.getSelectedItem();

        String sql = "UPDATE `appointment` SET `date` =
'"+selectedDate+"', `time` = '"+selectedTime+"', `status`= 4 "
                + "WHERE `appointmentID` = '"+selectedID+"'";

        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection connection = DriverManager.getConnection(url,
username, password);

            Statement statement = connection.createStatement();

            if(selectedDate.isEmpty()){
                JOptionPane.showMessageDialog(this, "Please enter your
preferred appointment date.", "Reschedule Failed", WARNING_MESSAGE);
            }else if(selectedID.compareToIgnoreCase("aptID") == 0){
                JOptionPane.showMessageDialog(this, "Please select data
from table above.", "Reschedule Failed", WARNING_MESSAGE);
            }else{
                statement.executeUpdate(sql);
                JOptionPane.showMessageDialog(this, "Rescheduled
Success!");
            }
            connection.close();

        }catch(Exception e){
            System.out.println(e.getMessage());
        }

        approvalPatient aptPatient = new approvalPatient();
        aptPatient.setVisible(true);

        aptPatient.setDoctorName(doctorName);
        aptPatient.setDoctorID(doctorID);

        dispose();
    }



    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
```

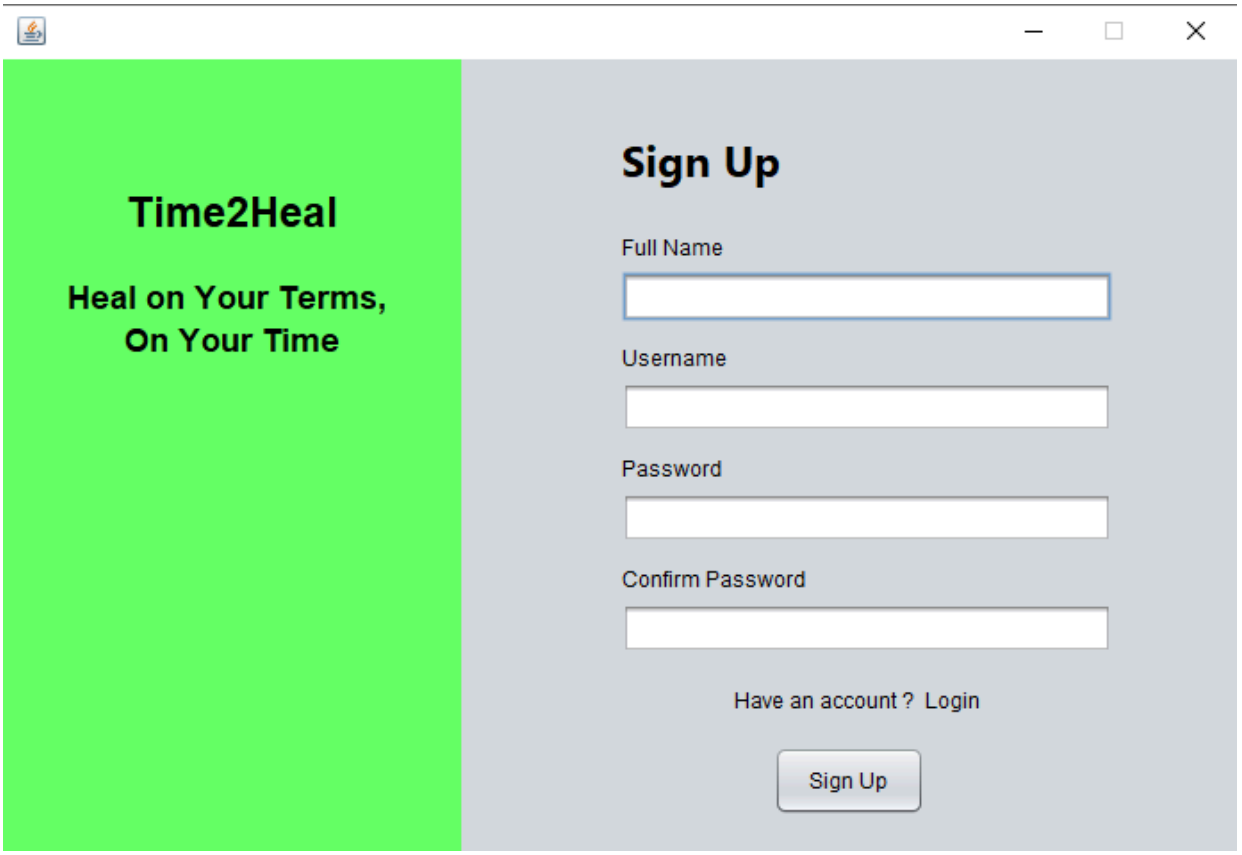
```
        //<editor-fold defaultstate="collapsed" desc=" Look and feel
    setting code (optional) ">
        /* If Nimbus (introduced in Java SE 6) is not available, stay
    with the default look and feel.
         * For details see
    http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.htm
    l
         */
        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(approvalPatient.class.getName()).log
    (java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

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

    // Variables declaration - do not modify
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton2;
    private javax.swing.JButton jButton3;
    private javax.swing.JComboBox<String> jComboBox1;
    private com.toedter.calendar.JDateChooser jDateChooser1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel10;
    private javax.swing.JLabel jLabel11;
    private javax.swing.JLabel jLabel12;
    private javax.swing.JLabel jLabel2;
```

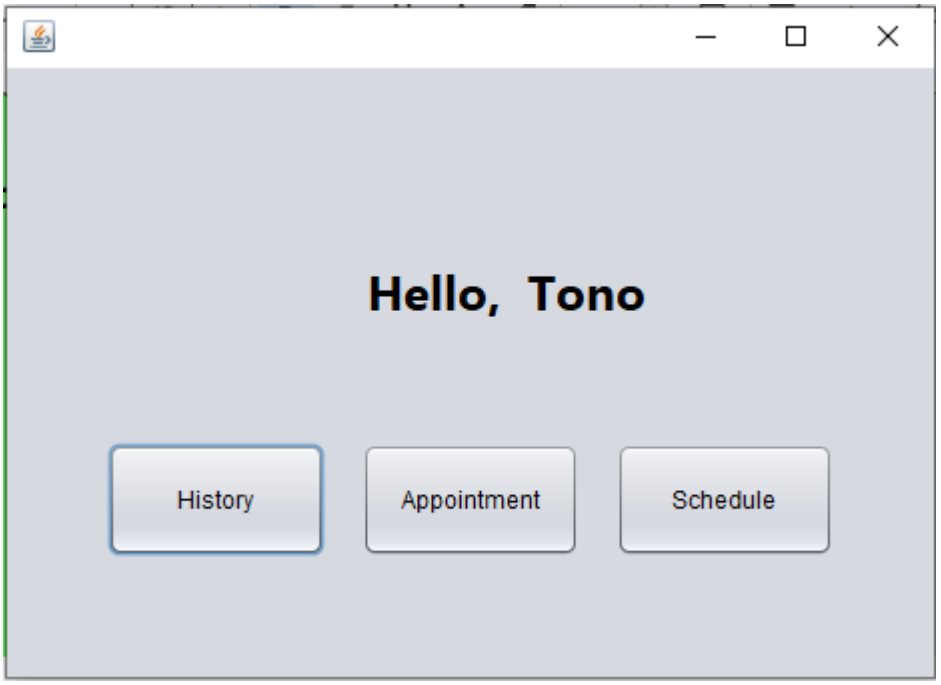
```
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JScrollPane jScrollPane1;
    private javax.swing.JScrollPane jScrollPane2;
    private javax.swing.JSeparator jSeparator1;
    private javax.swing.JTable jTable1;
    private javax.swing.JToggleButton jToggleButton1;
    // End of variables declaration

    private String doctorName;
    private String doctorID;

    void setDoctorName(String doctorName) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.doctorName = doctorName;
    }

    void setDoctorID(String doctorID) {
//        throw new UnsupportedOperationException("Not supported
yet."); // Generated from
nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBo
dy
        this.doctorID = doctorID;
    }
}
```

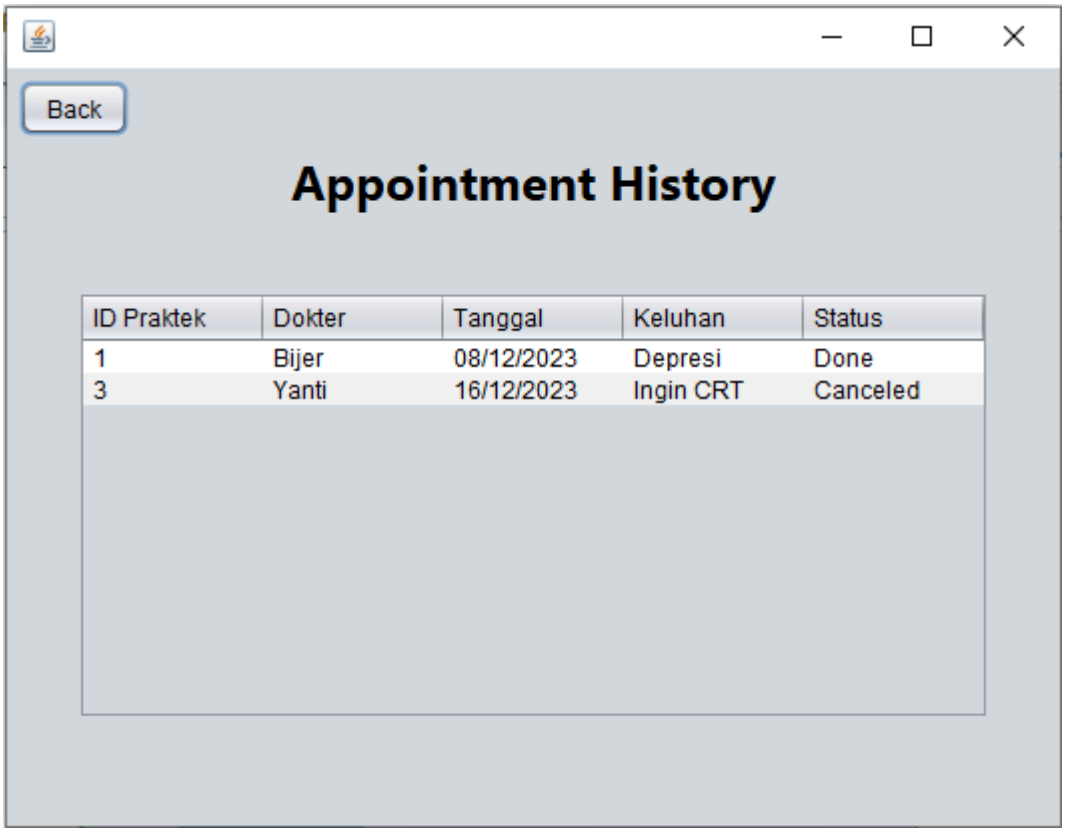
BAB V

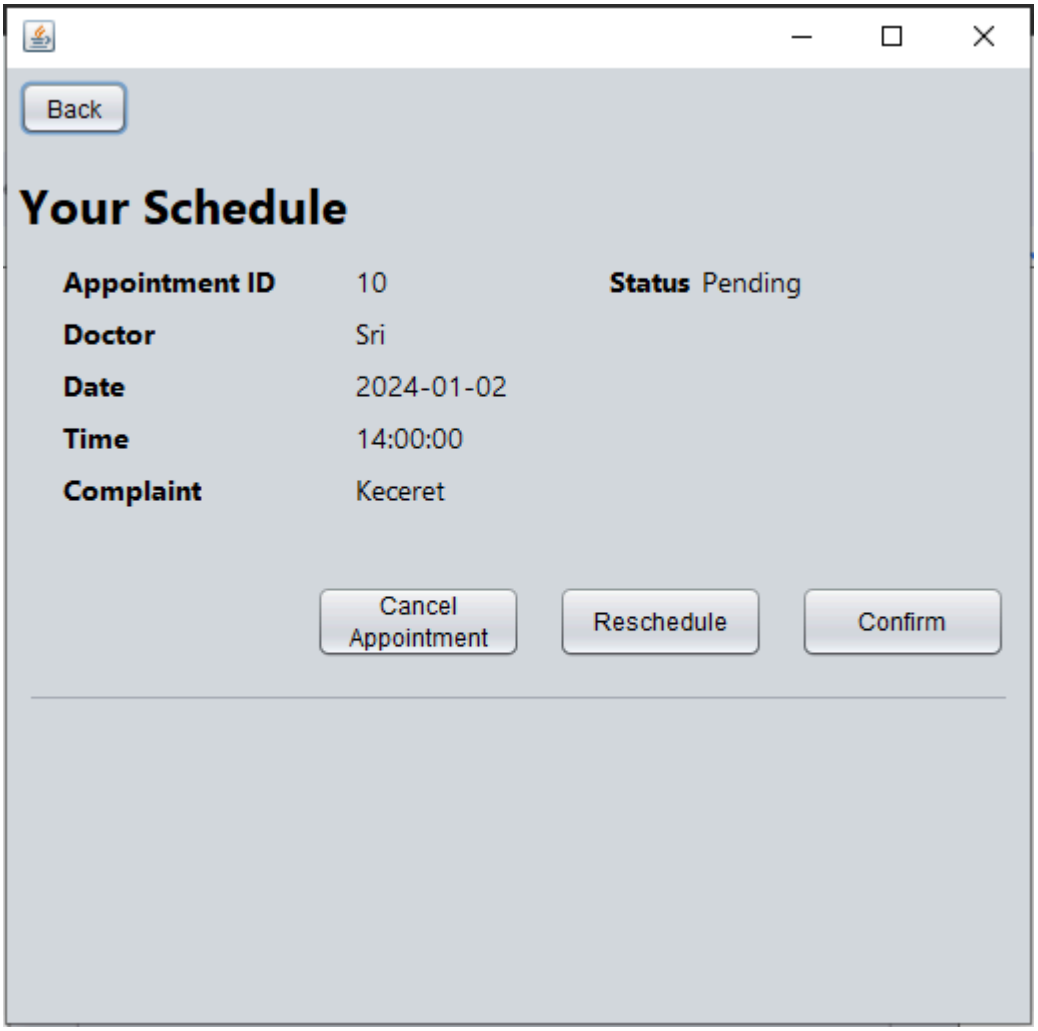
SCREENSHOT APLIKASI

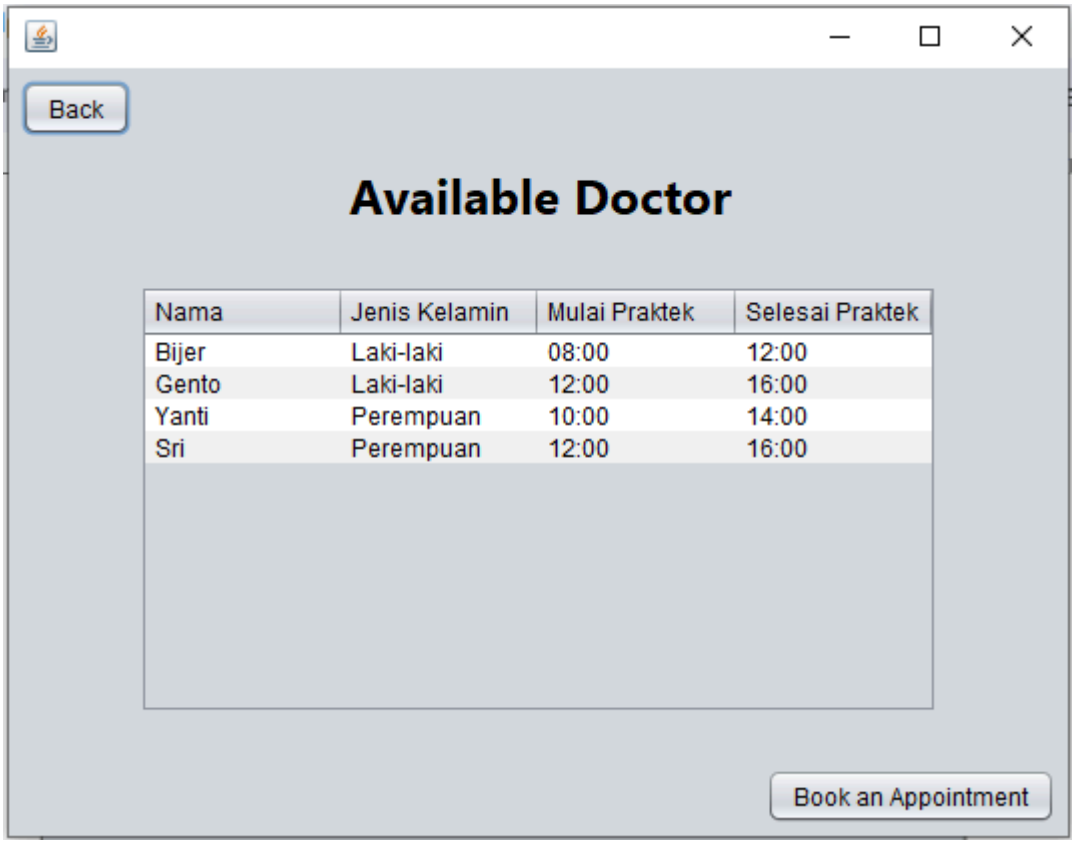


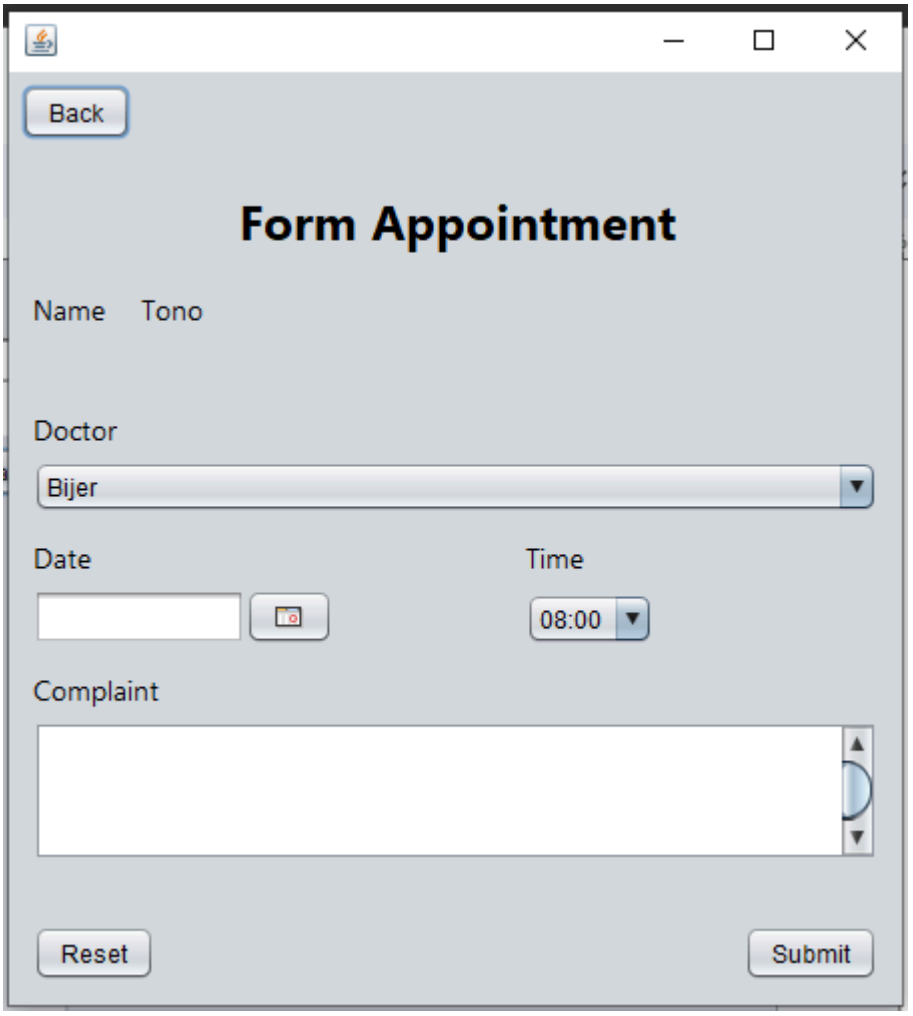


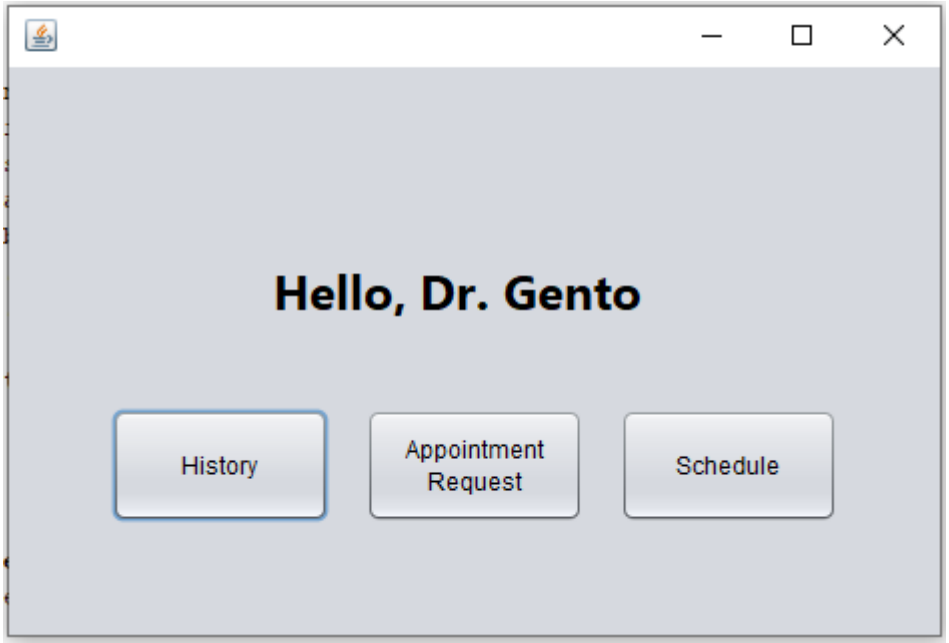

Hello, Tono
History
Appointment
Schedule

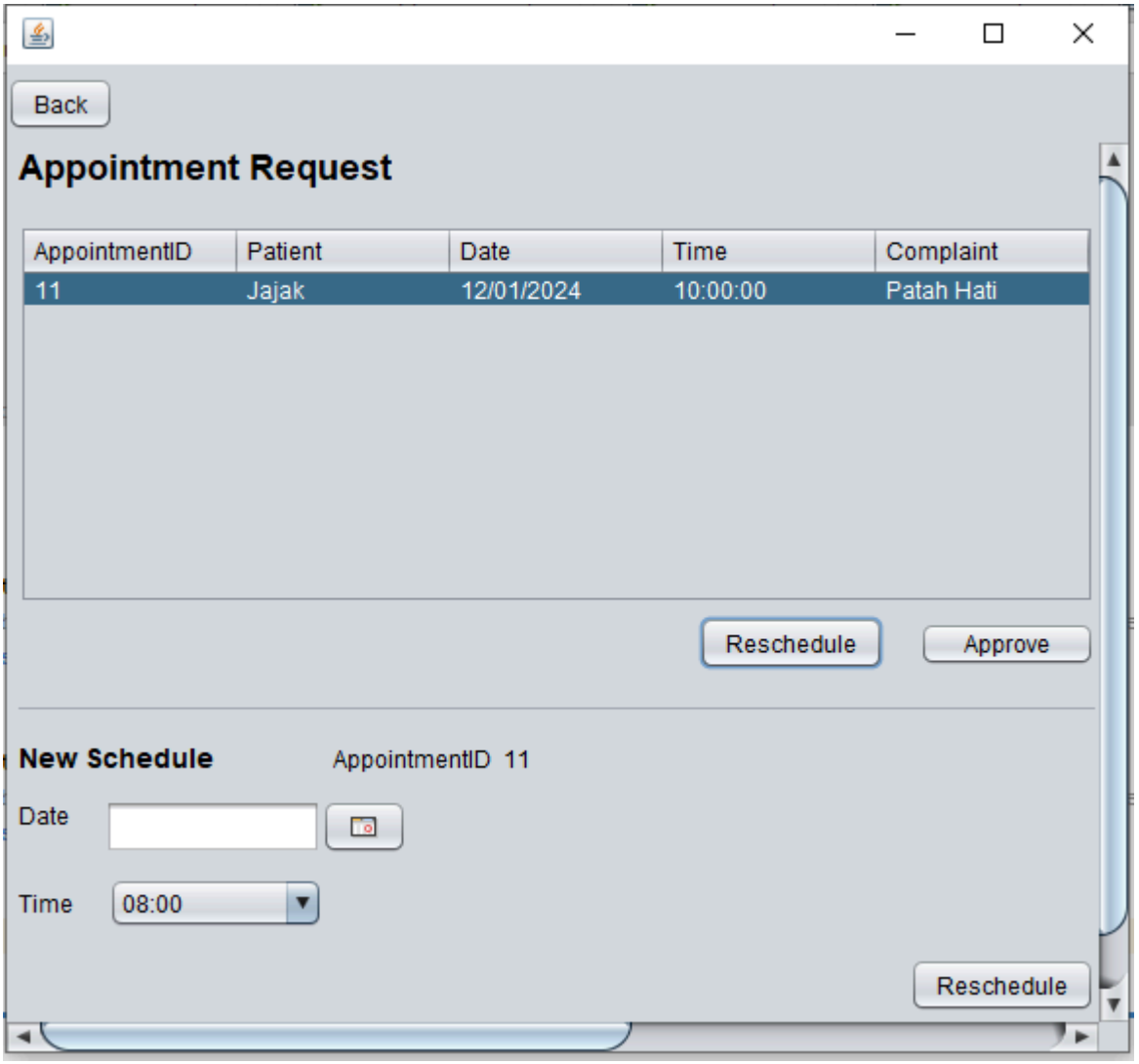

Back
Appointment History
ID Praktek
Dokter
Tanggal
Keluhan
Status
1
Bijer
08/12/2023
Depresi
Done
3
Yanti
16/12/2023
Ingin CRT
Canceled

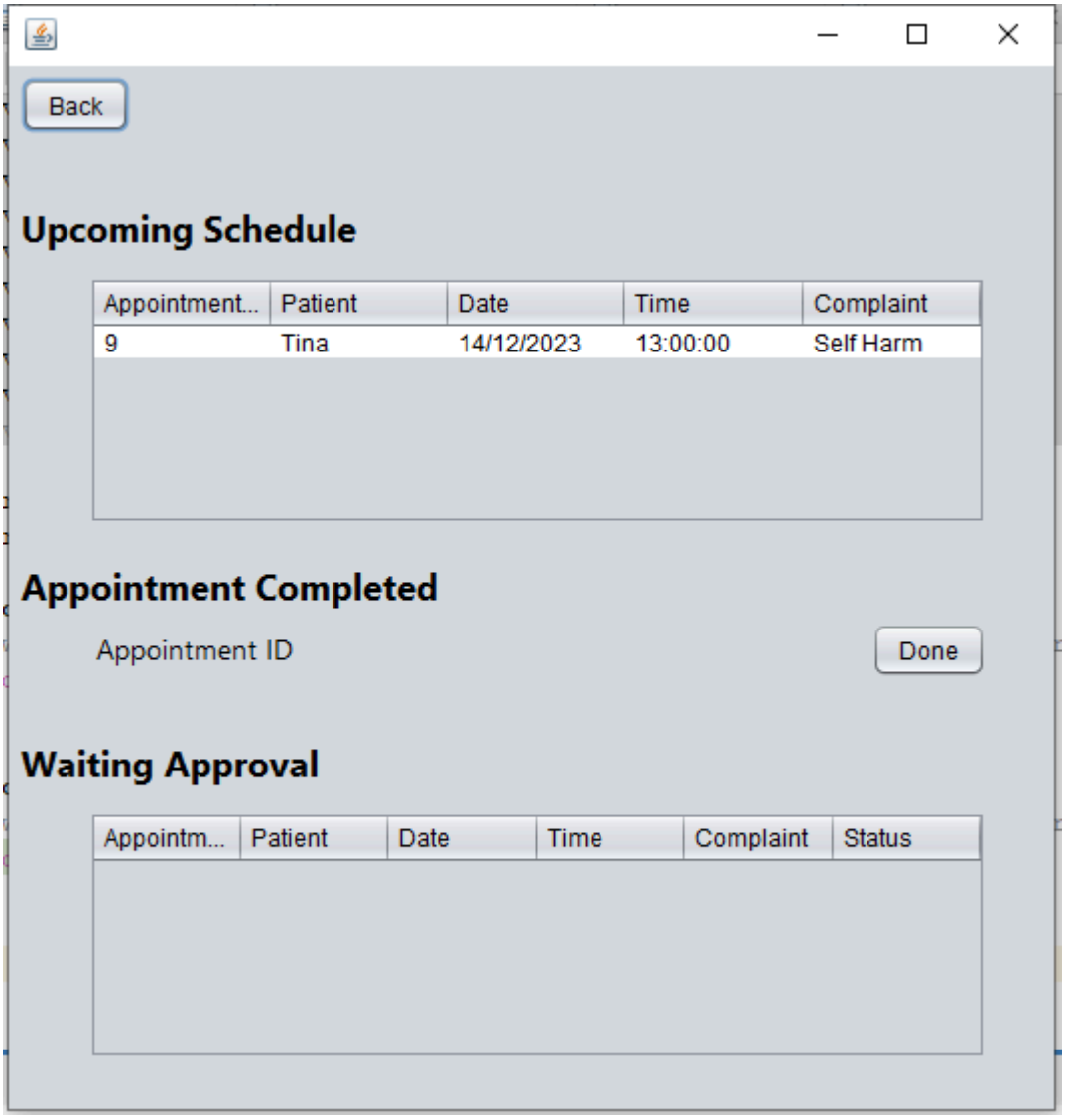

Back
Your Schedule
Appointment ID 10
Status Pending
Doctor Sri
Date 2024-01-02
Time 14:00:00
Complaint Keceret
Cancel Appointment
Reschedule
Confirm


Back
Available Doctor
Nama
Jenis Kelamin
Mulai Praktek
Selesai Praktek
Bijer
Laki-laki
08:00
12:00
Gento
Laki-laki
12:00
16:00
Yanti
Perempuan
10:00
14:00
Sri
Perempuan
12:00
16:00
Book an Appointment


Back
Form Appointment
Name Tono
Doctor
Bijer
Date
Time
08:00
Complaint
Reset
Submit


Hello, Dr. Gento
History
Appointment Request
Schedule


Back
Appointment Request
AppointmentID
Patient
Date
Time
Complaint
11
Jajak
12/01/2024
10:00:00
Patah Hati
Reschedule
Approve
New Schedule
AppointmentID 11
Date
Time
08:00
Reschedule


Back
Upcoming Schedule
Appointment...
Patient
Date
Time
Complaint
9
Tina
14/12/2023
13:00:00
Self Harm
Appointment Completed
Appointment ID
Done
Waiting Approval
Appointm...
Patient
Date
Time
Complaint
Status