



# FEU Institute of Technology

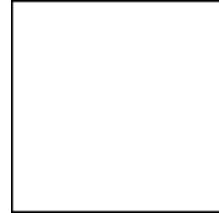
COLLEGE OF ENGINEERING • COLLEGE OF COMPUTER STUDIES

College of Computer Studies

OBJECT-ORIENTED PROGRAMMING (CCS0023)

TX23

Final Project



Grade

Submitted by:



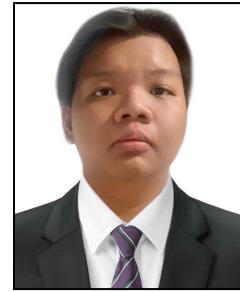
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## **OBJECTIVES**

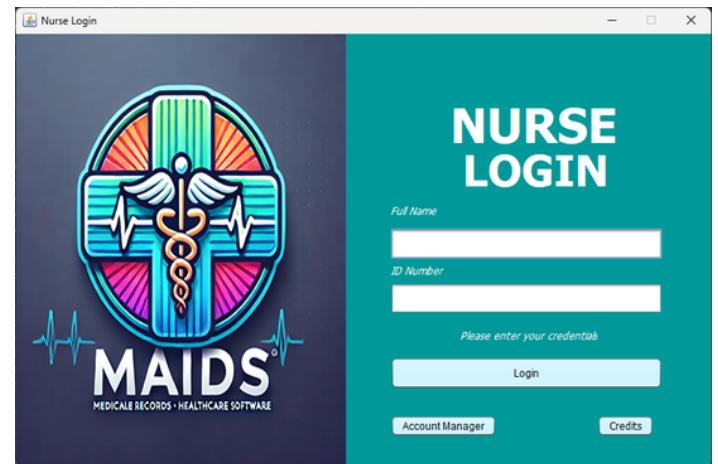
The program's main objective is to significantly enhance the quality of patient's care by providing it with a sufficient platform by registering and accessing medical records. And promote the flawless collaboration among the healthcare professionals. By streamlining the process of updating, viewing, inserting and managing the patient's record, the system will ensure that the patient can easily access their medical records. Additionally, Medical Assistant IDentification System (MAIDS) nurtures an interdependent workflow where nurses and doctors must collaborate closely, with each role supporting and complementing the other. This integration of responsibilities ensures that patient care is both efficient and comprehensive, with medical staff working in unison to deliver timely and effective treatments. Ultimately, the system aims to promote teamwork and improve overall patient management, creating a more efficient and coordinated healthcare environment.

## PROGRAM SCREENSHOTS

**Figure 1.1 : Nurse Login**

Nurse login show the following menu:

1. **Full Name** - Enter the nurse's full name.
2. **ID Number** - Enter the nurse's Identification number
3. **Login button** - Exit the program.



**Figure 1.2 : Unsuccessful login**

Show the notification pane when the filled out form is incorrect.



**Figure 1.3 : Successful Sign-in**

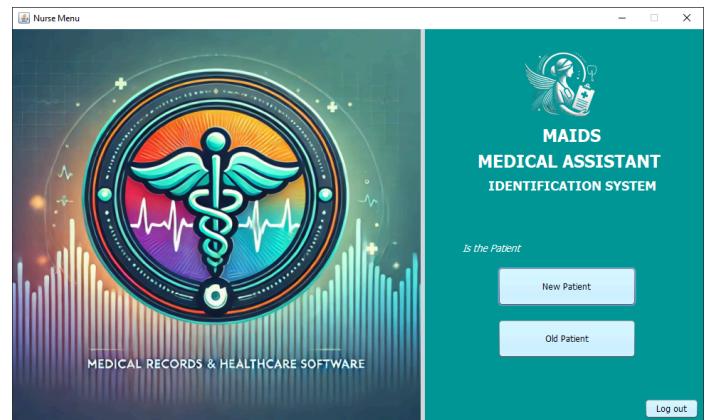
Shows the notification pane when the value is correct, then go to nurse menu



**Figure 2 : Nurse Menu**

Nurse Menu show the following menu:

1. **New Patient** - Go to Patient Registration
2. **Old Patient** - Go to Doctor's Login
3. **Log out button** - Exit the program.



**Figure 3.1 : Patient Registration**

*(Pressed the new patient)*

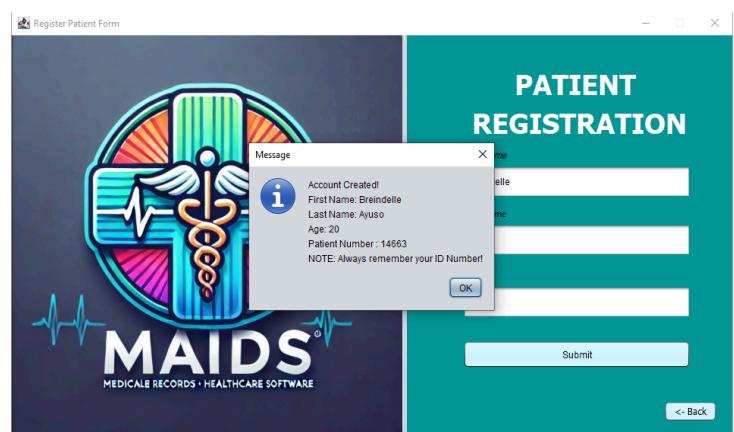
Patient registration show the following:

1. **First Name** - type the patient's first name.
2. **Last Patient** - type the patient's last name.
3. **Age** - type the age of the patient.
4. **Submit button** - After filling out the form, Put the information in the database.
5. **Back button** - Go back to the Main interface.



**Figure 3.2 : Successful Registration**

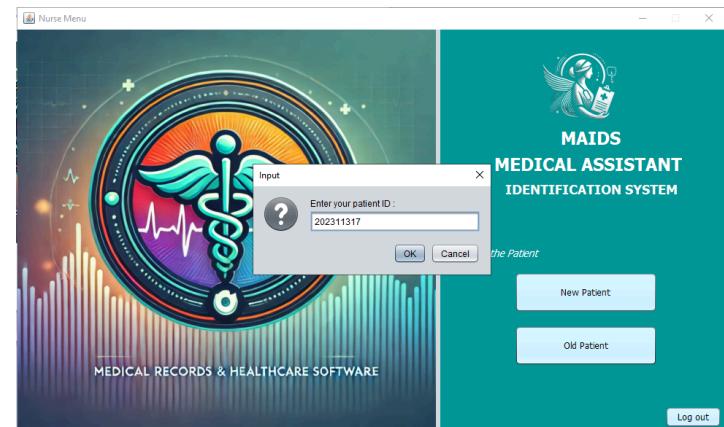
Show the notification pane that the filled out information is saved in the database. And give a unique Patient number. And a note saying “Always remember your ID Number”. After that you will be sent to the Doctors login and then your check up with the doctor.



**Figure 4 : Patient Id Login**

**(Pressed the Old Patient)**

Show that you need to enter the patient's identification number to continue.



**Figure 5 : Nurse Dashboard**

Nurse Dashboard show the following:

1. **Nurse Panel:** Greets the nurse and shows the patients' record logs.
2. **Nurse Panel Table:** Shows the visit date and the case number
3. **Patient Records:** Shows the name, age and the photo of the patient.
4. **Patient Records Table:** Show the purpose, diagnosis and treatment that the doctor diagnoses.
5. **Checkup Button:** Go to the Doctor login.
6. **Back Button:** Go back to the Main interface.

A screenshot of a Windows application window titled "Nurse Dashboard". The title bar includes the date "Date: 2024-11-27". The interface is divided into sections: "Nurse Panel" (greets the nurse and shows patient logs), "Patient Records" (shows Name: Breindelle Nahilikk, Age: 25, Photo placeholder), "PURPOSE" (Sleepwalking), "DIAGNOSIS" (humilik parin habang sleepwalk), and "TREATMENT" (Mag-Ambag AT manlinbre ng MCDO!!). A "Checkup" button is located at the bottom left of the "Nurse Panel" section.

**Figure 6.1 : Doctor's Login**

**(Pressed the Checkup)**

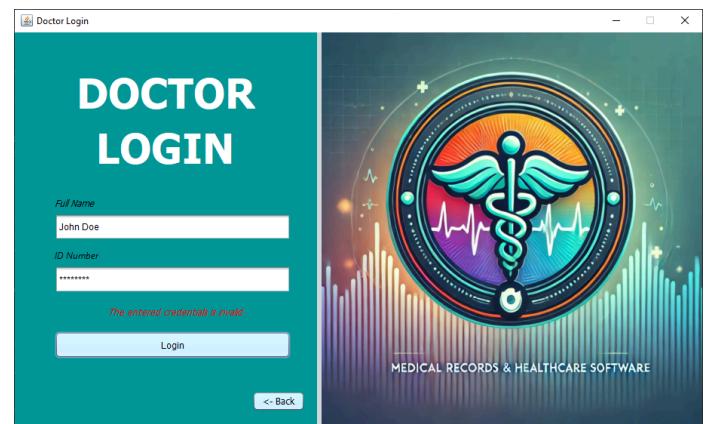
Doctors Login Shows the following:

1. **Full Name** - Enter the doctor's full name.
2. **ID Number** - Enter the doctor's unique Identification number.
3. **Login Button** - After Pressing, go to the main interface.
4. **Back button** - Go back to the nurse menu.

A screenshot of a Windows application window titled "Doctor Login". The title bar includes the date "Date: 2024-11-27". The form has fields for "Full Name" (Breindelle Vincent Ayuso) and "ID Number" (\*\*\*\*\*). Below the fields is a note "Please enter your credentials". A "Login" button is at the bottom. A "Back" button is located at the bottom left. The background features a circular medical logo with a caduceus and the text "MEDICAL RECORDS & HEALTHCARE SOFTWARE".

**Figure 6.2 : Invalid Account Error**

The text “Please enter your credentials” will be changed into “The entered credentials is invalid” and will turn red if the input is wrong.



**Figure 6.3 : Successful Sign in**

Shows the notification pane and will welcome when the input is correct.

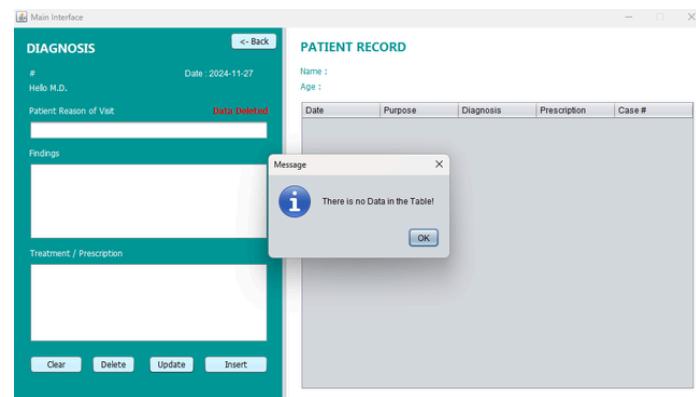


**Figure 7.1 : Diagnosis Panel**

Main Interface shows the following:

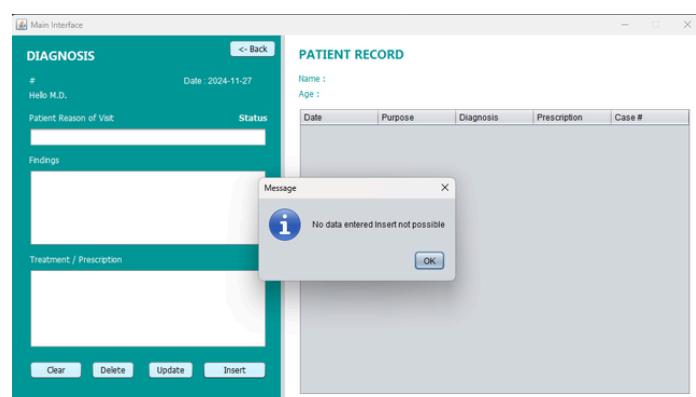
1. **Diagnosis Panel:** Which shows the Identification number, Date and the Greetings for the doctor.
2. **Patient Reason for Visit Table:** Input the reason for the visit of the patient.
3. **Findings Table:** Finding of the doctor's diagnosis of the patient.
4. **Treatment Table:** Prescribe treatment for the diagnosis of the patient.
5. **Patient Record Panel:** Shows the patient's name and age of the patient
6. **Patient Record Table:** Shows all the Date, Purpose, Diagnosis, Prescription and Case number of the patients by row and save them in a database.
7. **Clear Button:** Clear the inputs in the Diagnosis Panel.
8. **Delete Button:** Delete a selected row in the Database.
9. **Update Button:** Update the selected data row in the Database.
10. **Insert Button:** Inserting data (Current Diagnosis) in the Database
11. **Back Button:** Go back to the Nurse Menu.
- 12.

 A screenshot of the main application interface. On the left, there is a "DIAGNOSIS" panel with sections for "Patient Reason of Visit", "Findings", and "Treatment / Prescription". It includes buttons for "Clear", "Delete", "Update", and "Insert". Above this panel are fields for "Name : Hello M.D." and "Date : 2024-11-27". On the right, there is a "PATIENT RECORD" panel with a table header for "Date", "Purpose", "Diagnosis", "Prescription", and "Case #". Below the header, there is a large empty table body.



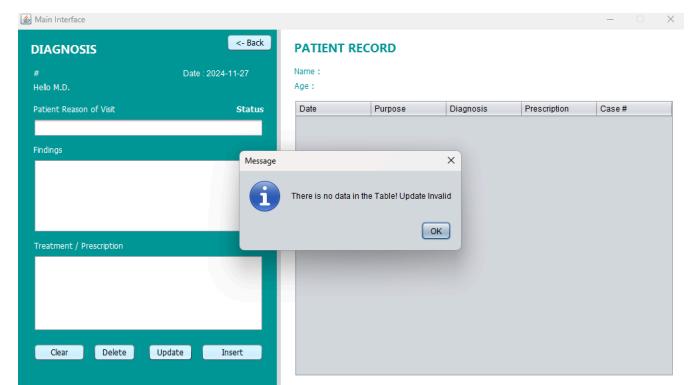
**Figure 7.2 : No data in Deletion Error**

Shows the notification pane when deleting data when there is no data in the database.



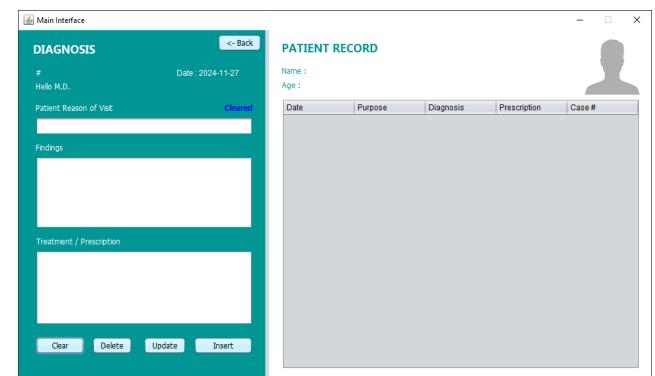
**Figure 7.3 : No data in insertion Error**

Shows the notification pane when you press insert but there is no data to insert in the database.



**Figure 7.4 : No data update Error**

Shows the notification pane when you press Update but there is no data to update in the database.

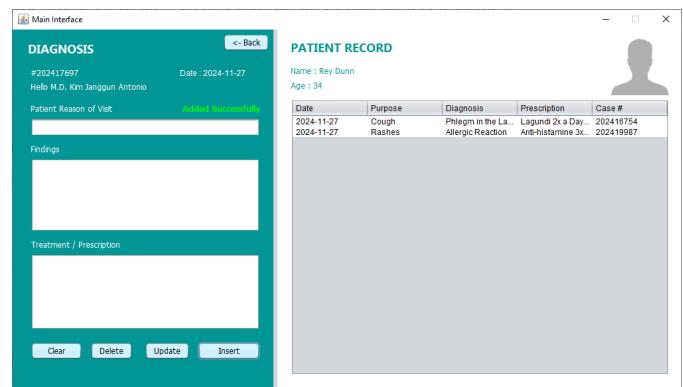


**Figure 7.5 : Status indication to Clear**

Change the word “Status” in the diagnosis panel to “Cleared” when you clear the data in the diagnosis panel.

**Figure 7.5 : No data in insertion Error**

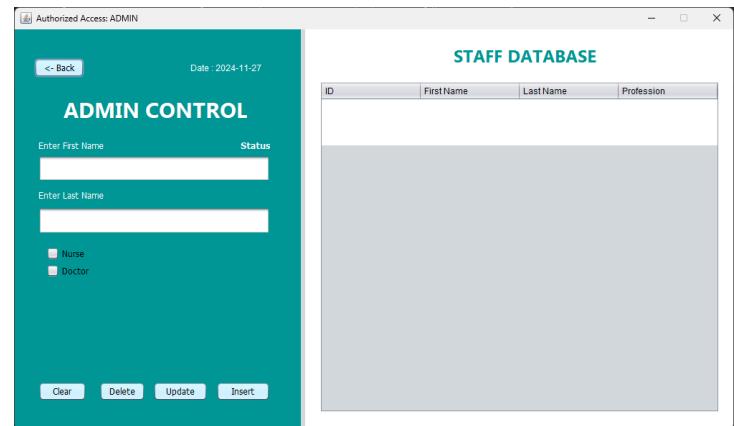
Change the word “Status” in the diagnosis panel to “Added Successfully” when you insert the data in the diagnosis panel.



**Figure 8.1 : Admin Panel**

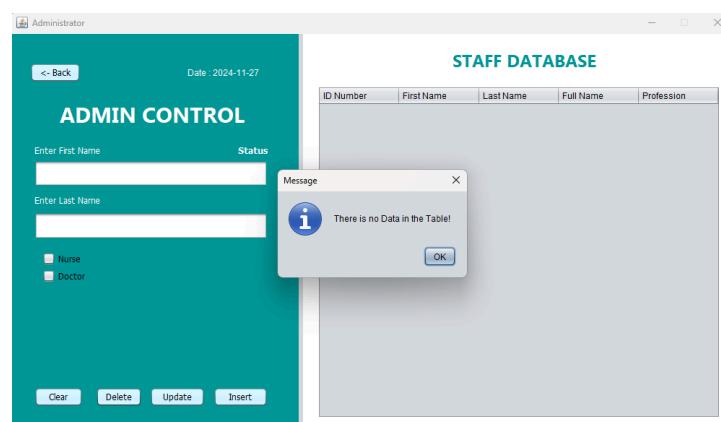
Administration shows the following:

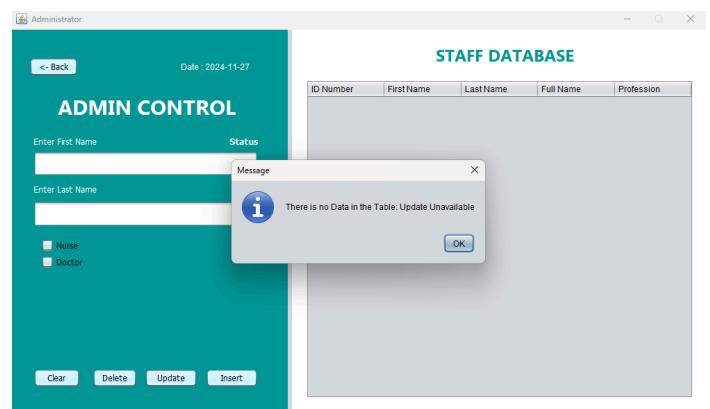
1. **Administrator Panel:** Shows the Date, and the admin control.
2. **Name Text Box:** Enter the First name and last name of either nurse or doctor.
3. **Check Box:** Select whether the account to be registered is a nurse or doctor.
4. **Staff Database Table:** Shows the ID, full name and the profession for the database.
5. **Clear Button:** Clear the inputs in the Admin control.
6. **Delete Button:** Delete a selected row in the Staff Database.
7. **Update Button:** Update the selected data row in the Database.
8. **Insert Button:** Inserting data (Current Data) in the Database
9. **Back Button:** Go back to the Nurse Menu.



**Figure 8.2: No data error in deletion**

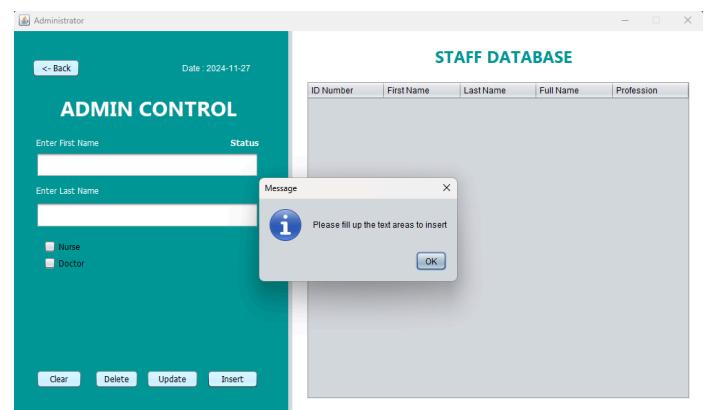
Shows a notification pane that clear data is unavailable when there is no data in the database.





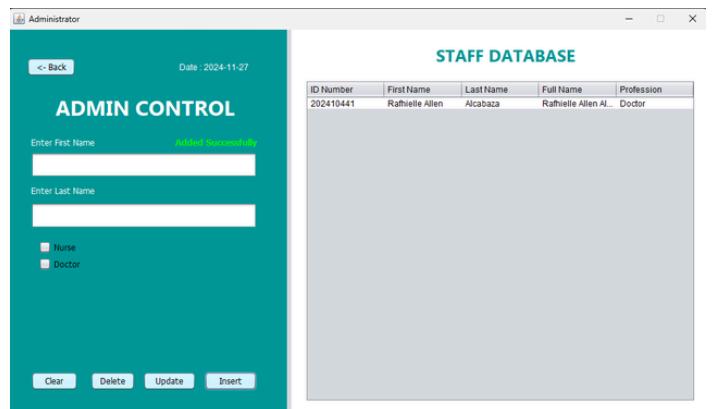
**Figure 8.3 : No data in update error**

Shows notification pane that update is unavailable when there is no data in the database.



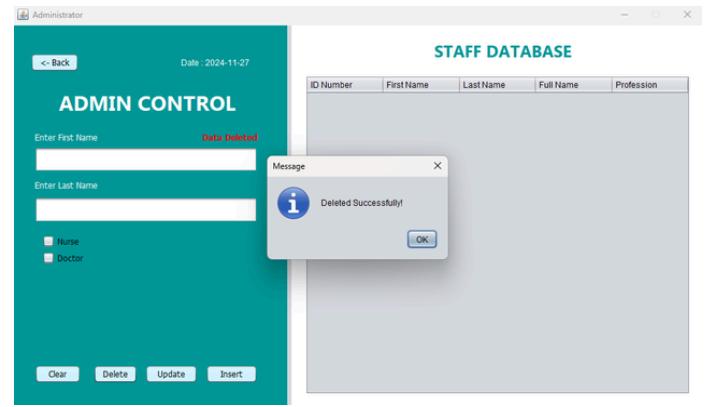
**Figure 8.4 : No data in insertion Error**

Shows a notification pane that you need to input data in the admin control before you insert in the database.



**Figure 8.5 : Successful insertion indication**

The word “Status“ has been changed to “Added Successfully” when you add data to the database.



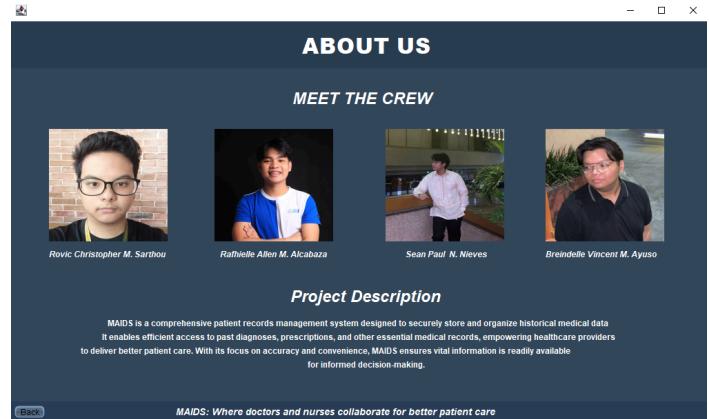
**Figure 8.6 : Successful Deletion Notification**

Show a notification pane when a data has been successfully deleted from the database and the word “Status“ has been changed to “Data Deleted”.

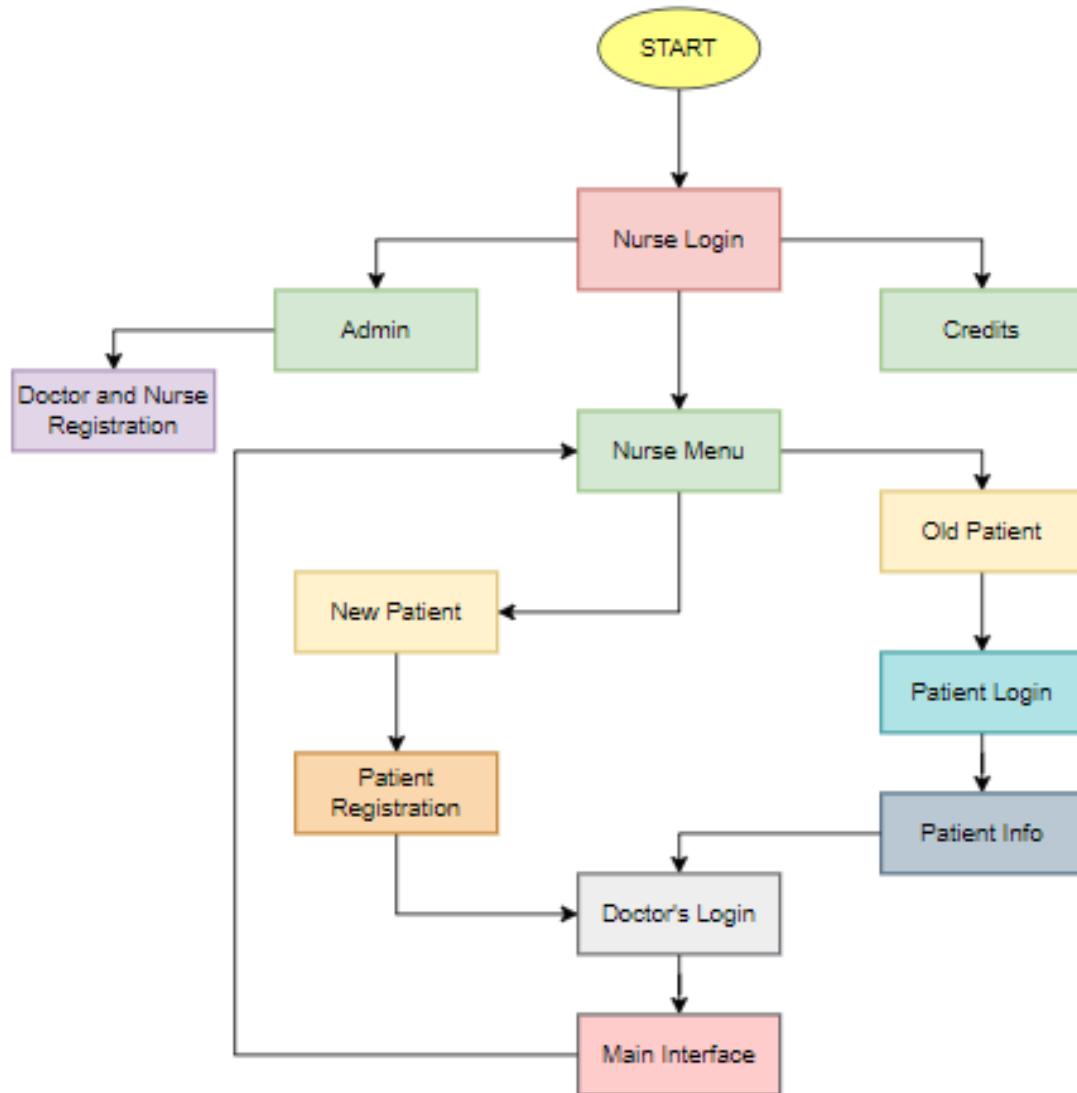
**Figure 9 : Credit the Programmers**

Credits shows the following:

1. **Member Picture:** Shows all the member's pictures.
2. **Project Description:** A short summary or description about the system.
3. **Back Button:** Go back to Nurse Login.



## PROGRAM FLOW



The program consists of several connected Java files, each with a specific responsibility, working together to manage patient and system data. The flow starts at Nurse Login, implemented in LoginNurse.java, which handles the nurse authentication process. Once logged in, nurses are directed to the Nurse Menu, which serves as the navigation hub for the program.

**Administrator.java:** This file provides functionality for registering new doctors and nurses. It is accessible through the Nurse Login and plays a crucial role in maintaining the system's user database. It supports CRUD (Create, Read, Update, Delete) but only applies to the employees of the department.

**Credits.java:** This file displays information about the program's creators or contributors. It is an optional feature that can be accessed directly from the Nurse Login.

**Register.java:** This file handles the registration of new patients. When a new patient is selected, nurses can input patient details through this module. After registration the data will go to the SQL database and the system prompts for the doctor's information, such as Full Name the ID will act as a password for successful completion, the program transitions to the MainInterface.java.

**OldPatient.java:** This file manages interactions with existing patients. When an old patient is selected, the system requests the patient's ID number. If the ID is valid, the program redirects to the Nurse View History, where nurses can view the patient's record history.

**Login.java:** This file may handle the login functionality for doctors. It links to other modules, such as the MainInterface.java, to provide doctors with relevant system access.

**MainInterface.java:** This is the central hub of the program, where all main functionalities converge. It allows users to add, update, delete, and insert patient and system information. This file provides all control over the database and serves as the endpoint for both new patient registrations and doctor-related operations.

**TempMenu.java:** The Main Menu of the program where it ask on what the nurse want to do whether if the nurse patient is a new patient or existing patient each selection will proceed on their different purpose

**LoginNurse.java:** The Nurse Login is the beginning of the program where the Nurse must enter their credentials to open a program a Doctor cannot access the program without a nurse credentials

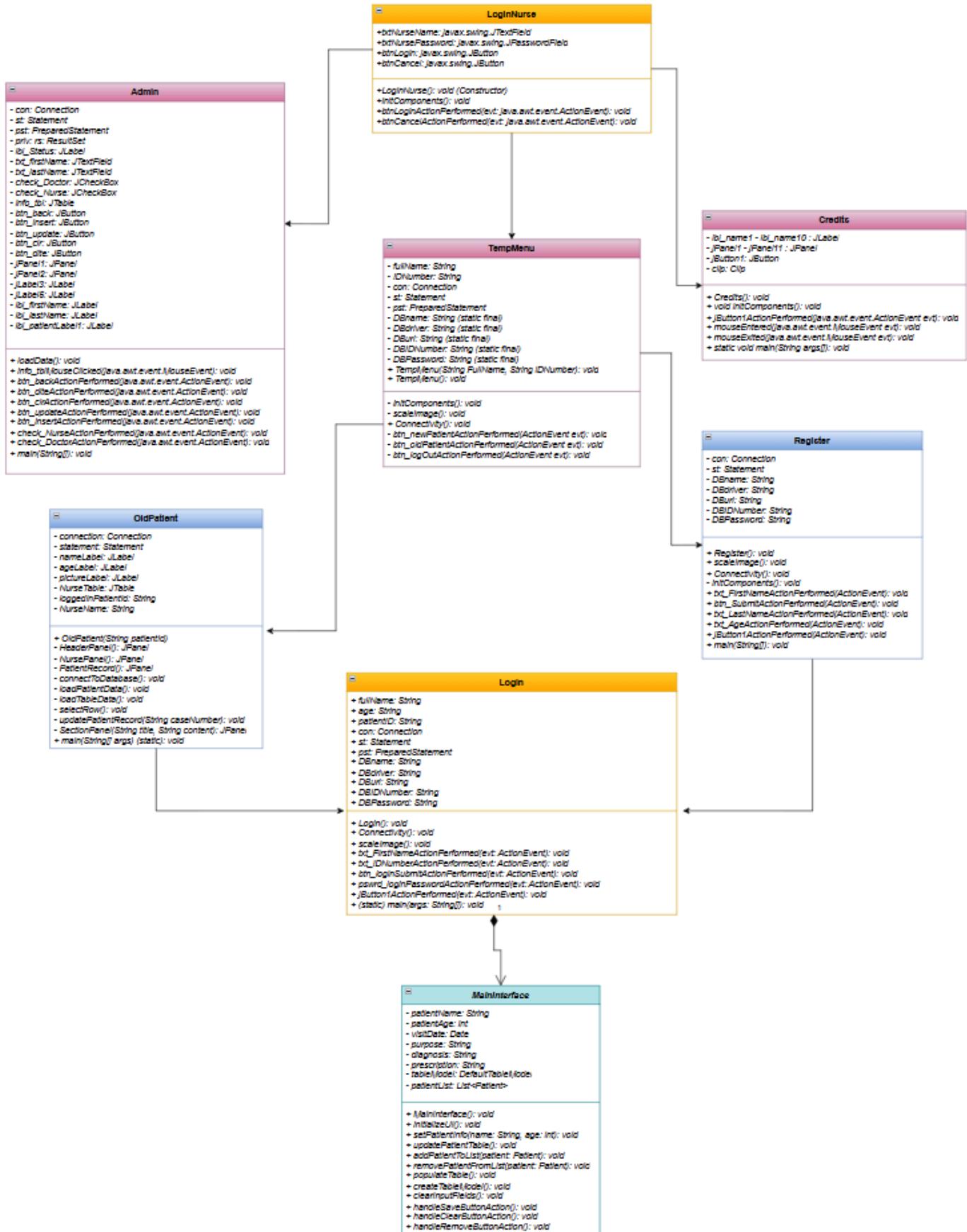
The program's flow ensures that new patients are registered and linked to a doctor's information before reaching the Main Interface. For old patients, the Nurse View History (within OldPatient.java) provides a read-only interface for reviewing patient records. The distinction between the Main Interface and Patient History Records lies in functionality: the Main Interface supports CRUD (Create, Read, Update, Delete) operations, while Patient History Records are strictly for viewing past records. Together, these files create a structured and efficient system for patient and user management.

## PROGRAM SUMMARY

The Medical Assistant Identification System (MAIDS) streamlines healthcare workflows with three modules: Nurse Module for patient registration, Doctor Module for diagnoses and prescriptions, and Admin Module for user management and system

oversight. While focused on essential functions due to time constraints, MAIDS provides a solid foundation for future enhancements to further improve efficiency and patient care. The system is also flexible, as it stores all of the patient's data into a centralized database. The system is also designed to ensure that patient records are accessible across different healthcare facilities, provided that they have access to the centralized database. Such flexibility enhances the overall functionality of the system and supports better decision-making for patient care, regardless of the location.

## CLASS DIAGRAM



## SOURCE CODE

### LOGIN NURSE

```
package ALLEN_CODE;
import java.awt.Color;
import java.awt.Image;
import javax.swing.JOptionPane;
import javax.swing.*;
import java.sql.Connection;           // JDBC Connection for database
import java.sql.DriverManager;        // For establishing a connection
import java.sql.PreparedStatement;    // For executing SQL queries
import java.sql.ResultSet;
import java.util.logging.Level;
import java.util.logging.Logger; // For handling the results of queries
import java.sql.SQLException;        // For handling SQL exceptions
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.ImageIcon;

public class LoginNurse extends javax.swing.JFrame {

    public LoginNurse() { ...

    Connection con;
    /* SQL Statement */
    Statement st;
    PreparedStatement pst;

    private static final String DBname = "maids_database";
    private static final String DBdriver = "com.mysql.cj.jdbc.Driver";
    private static final String DBurl = "jdbc:mysql://localhost:3306/" + DBname;
    private static final String DBIDNumber = "root";
    private static final String DBPassword = "";

    public void Connectivity() throws SQLException { ...

        @SuppressWarnings("unchecked")
        // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
    private void initComponents() { ...

    private void LoginActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_LoginActionPerformed ...
    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) { ...
    /**
     * ...
     */
    Run|Debug
    public static void main(String args[]) { ...

    // Variables declaration - do not modify//GEN-BEGIN:variables
    private javax.swing.JButton Login;
    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton3;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JPanel jPanel3;
    private javax.swing.JPasswordField jPasswordField1;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JLabel name;
    private javax.swing.JLabel nurse;
    private javax.swing.JLabel pass;
    // End of variables declaration//GEN-END:variables
}
```

## TEMP MENU

```
g:\\maids_database;
import java.awt.Image;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
import java.sql.PreparedStatement;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.ImageIcon;
import javax.swing.JOptionPane;
import java.sql.ResultSet;
> /* ...
> /**
> public class TempMenu extends javax.swing.JFrame {
>     /**
>         String fullName, IDNumber;
>     public TempMenu(String FullName, String iDNumber) { ...
>     public TempMenu() { ...
>     public void scaleImage() { ...
>         Connection con;
>         /* SQL Statement */
>         Statement st;
>         PreparedStatement pst;
>         private static final String DBname = "maids_database";
>         private static final String DBdriver = "com.mysql.cj.jdbc.Driver";
>         private static final String DBurl = "jdbc:mysql://localhost:3306/" + DBname;
>         private static final String DBIDNumber = "root";
>         private static final String DBPassword = "";
>
>         public void Connectivity() throws SQLException { ...
>         /**
>             @SuppressWarnings("unchecked")
>             // <editor-fold defaultstate="collapsed" desc="Generated Code">/GEN-BEGIN:initComponents ...
>             private void btn_newPatientActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_btn_newPatientActionPerformed ...
>             private void btn_oldPatientActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_btn_oldPatientActionPerformed ...
>             private void btn_logOutActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_btn_logOutActionPerformed ...
>             /**
>             Run|Debug
>             public static void main(String args[]) { ...
>
>             // Variables declaration - do not modify//GEN-BEGIN:variables
>             private javax.swing.JButton btn_logOut;
>             private javax.swing.JButton btn_newPatient;
>             private javax.swing.JButton btn_oldPatient;
>             private javax.swing.JLabel jLabel2;
>             private javax.swing.JPanel jPanel1;
>             private javax.swing.JPanel jPanel2;
>             private javax.swing.JLabel lbl_Icon;
>             private javax.swing.JLabel lbl_Logo;
>             private javax.swing.JLabel lbl_maidsDef;
>             private javax.swing.JLabel lbl_maidsDef1;
>             private javax.swing.JLabel lbl_maidsDef2;
>             private javax.swing.JLabel lbl_maidsDef3;
>             // End of variables declaration//GEN-END:variables
> }
```

## REGISTER

```
> /**
>  * ...
>
> import java.awt.Image;
> import java.sql.Connection;
> import java.sql.Statement;
> import java.sql.DriverManager;
> import java.sql.SQLException;
> import java.time.LocalDate;
> import java.util.Random;
> import java.util.logging.Level;
> import java.util.logging.Logger;
> import javax.swing.ImageIcon;
> import javax.swing.JFrame;
> import javax.swing.JOptionPane;
> public class Register extends javax.swing.JFrame {
>
>     /**
>     public Register() {
>     public void scaleImage () {
>         /* Connecting to SQL */
>         Connection con;
>         /* SQL Statement */
>         Statement st;
>         private static final String DBname = "maids_database";
>         private static final String DBdriver = "com.mysql.cj.jdbc.Driver";
>         private static final String DBurl = "jdbc:mysql://localhost:3306/" + DBname;
>         private static final String DBIDNumber = "root";
>         private static final String DBPassword = "";
>         public void Connectivity() throws SQLException {
>             /**
>             @SuppressWarnings("unchecked")
>             // <editor-fold defaultstate="collapsed" desc="Generated Code">/GEN-BEGIN:initComponents ...
>             private void txt_FirstNameActionPerformed(java.awt.event.ActionEvent evt) {/GEN-FIRST:event_txt_FirstNameActionPerformed ...
>             private void btn_SubmitActionPerformed(java.awt.event.ActionEvent evt) {/GEN-FIRST:event_btn_SubmitActionPerformed ...
>             private void txt_LastNameActionPerformed(java.awt.event.ActionEvent evt) {/GEN-FIRST:event_txt_LastNameActionPerformed ...
>             private void txt_AgeActionPerformed(java.awt.event.ActionEvent evt) {/GEN-FIRST:event_txt_AgeActionPerformed ...
>             private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {/GEN-FIRST:event_jButton1ActionPerformed ...
>             /**
>             Run | Debug
>             public static void main(String args[]) {
>
>                 // Variables declaration - do not modify//GEN-BEGIN:variables
>                 private javax.swing.JButton btn_Submit;
>                 private javax.swing.JButton jButton1;
>                 private javax.swing.JLabel jLabel1;
>                 private javax.swing.JLabel jLabel2;
>                 private javax.swing.JLabel jLabel3;
>                 private javax.swing.JPanel jPanel1;
>                 private javax.swing.JPanel jPanel2;
>                 private javax.swing.JLabel lbl_Age;
>                 private javax.swing.JLabel lbl_FirstName;
>                 private javax.swing.JLabel lbl_LastName;
>                 private javax.swing.JLabel lbl_Logo;
>                 private javax.swing.JTextField txt_Age;
>                 private javax.swing.JTextField txt_FirstName;
>                 private javax.swing.JTextField txt_LastName;
>                 // End of variables declaration//GEN-END:variables
>             }
>         }
>     }
> }
```

## OLD PATIENT

```
> import javax.swing.*; ...
~ public class OldPatient extends JFrame {
    private Connection connection;
    private Statement statement;
    private JLabel nameLabel, ageLabel, pictureLabel;
    private JTable NurseTable;
    private String loggedInPatientId;
    private String NurseName;

    public OldPatient(String patientId) { ...
    private JPanel HeaderPanel() { ...
    private JPanel NursePanel() { ...
    private JPanel PatientRecord() { ...
    private void connectToDatabase() { ...
    private void loadPatientData() { ...
    private void loadTableData() { ...
    private void selectRow() { ...
    private void updatePatientRecord(String caseNumber) { ...
    private JPanel SectionPanel(String title, String content) { ...

    Run | Debug
>     public static void main(String[] args) { ...
}
```

## LOGIN

```
import java.awt.Color; ...

/*
 */
public class Login extends javax.swing.JFrame {

    /**
     * @param args
     */
    public Login(String firstName, String lastName, String age, String PatientID) {
        // ...
    }

    public Login() {
        // ...
    }

    Connection con;
    /* SQL Statement */
    Statement st;
    PreparedStatement pst;

    private static final String DBname = "maids_database";
    private static final String DBdriver = "com.mysql.cj.jdbc.Driver";
    private static final String DBurl = "jdbc:mysql://localhost:3306/" + DBname;
    private static final String DBIDNumber = "root";
    private static final String DBPassword = "";

    public void Connectivity() throws SQLException {
        // ...
    }

    public void scaleImage() {
        // ...
    }

    /**
     * @SuppressWarnings("unchecked")
     */
    // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents ...
    private void txt_FirstNameActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_txt_FirstNameActionPerformed ...
        // ...
    }

    private void txt_IDNumberActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_txt_IDNumberActionPerformed ...
        // ...
    }

    private void btn_loginSubmitActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_btn_loginSubmitActionPerformed ...
        // ...
    }

    private void pswrd_loginPasswordActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_pswrd_loginPasswordActionPerformed ...
        // ...
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton1ActionPerformed ...
        // ...
    }

    /**
     * Run|Debug
     */
    public static void main(String args[]) {
        // Variables declaration - do not modify//GEN-BEGIN:variables
        private javax.swing.JButton btn_loginSubmit;
        private javax.swing.JButton jButton1;
        private javax.swing.JLabel jLabel1;
        private javax.swing.JLabel jLabel2;
        private javax.swing.JPanel jPanel1;
        private javax.swing.JLabel lbl_IDText;
        private javax.swing.JLabel lbl_Logolabel;
        private javax.swing.JLabel lbl_PasswordNotice;
        private javax.swing.JLabel lbl_StatusLabel;
        private javax.swing.JPanel pnl_logo;
        private javax.swing.JPasswordField pswrd_loginPassword;
        private javax.swing.JTextField txt_FirstName;
        private javax.swing.JTextField txt_IDNumber;
        // End of variables declaration//GEN-END:variables
    }
}
```

## MAIN INTERFACE

```
import java.awt.Color;
/*
 */
public class MainInterface extends javax.swing.JFrame {
    /**
     * EmpName, EmpNum, patientFullName, patientAge, patientID;
     */
    public MainInterface(String EMPName, String EMPPnum, String pFullName, String age, String PatientID) {
        /**
         */
        public MainInterface(String EMPName, String EMPPnum, String PatientID) {
            /**
             */
            public MainInterface() {
                /**
                 */
                public void scaleImage () {
                    /**
                     */
                    private void startRealTimeUpdate() {
                        /**
                         */
                        Connection con;
                        /* SQL Statement */
                        Statement st;
                        PreparedStatement pst;
                        ResultSet rs;

                        private static final String DBname = "maids_database";
                        private static final String DBdriver = "com.mysql.cj.jdbc.Driver";
                        private static final String DBurl = "jdbc:mysql://localhost:3306/" + DBname;
                        private static final String DBIDNumber = "root";
                        private static final String DBPassword = "";

                        public void Connectivity() throws SQLException {
                            /**
                             */
                            /**
                             */
                            @SuppressWarnings("unchecked")
                            // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
                            public void loadData() {
                                /**
                                 */
                                private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton1ActionPerformed
                                    /**
                                     */
                                    private void info_tblMouseClicked(java.awt.event.MouseEvent evt) { //GEN-FIRST:event_info_tblMouseClicked
                                        /**
                                         */
                                        private void btn_updateActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_btn_updateActionPerformed
                                            /**
                                             */
                                            private void btn_clrActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_btn_clrActionPerformed
                                                /**
                                                 */
                                                private void btn_dlteActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_btn_dlteActionPerformed
                                                    /**
                                                     */
                                                    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton2ActionPerformed
                                                        /**
                                                         */
                                                        /**
                                                         */
                                                        Run|Debug
                                                        public static void main(String args[]) {
                                                            /**
                                                             */
                                                            // Variables declaration - do not modify//GEN-BEGIN:variables
                                                            private javax.swing.JButton btn_clr;
                                                            private javax.swing.JButton btn_dlte;
                                                            private javax.swing.JButton btn_update;
                                                            private javax.swing.JTable info_tbl;
                                                            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.JLabel jLabel6;
                                                            private javax.swing.JLabel jLabel7;
                                                            private javax.swing.JLabel jLabel8;
                                                            private javax.swing.JPanel jPanel1;
                                                            private javax.swing.JPanel jPanel2;
                                                            private javax.swing.JPanel jPanel3;
                                                            private javax.swing.JScrollPane jScrollPane1;
                                                            private javax.swing.JScrollPane jScrollPane2;
                                                            private javax.swing.JScrollPane jScrollPane3;
                                                            private javax.swing.JSpinner jSpinner1;
                                                            private java.awt.Label label1;
                                                            private javax.swing.JLabel lb_patientName;
                                                            private javax.swing.JLabel lbl_Status;
                                                            private javax.swing.JLabel lbl_employeeNumber;
                                                            private javax.swing.JLabel lbl_patientImage;
                                                            private javax.swing.JLabel lbl_patientlabel;
                                                            private javax.swing.JTextField txt_reasonOfVisit;
                                                            private javax.swing.JTextArea txtarea_Findings;
                                                            private javax.swing.JTextArea txtarea_Treatment;
                                                            // End of variables declaration//GEN-END:variables
                                                        }
                                                    
```

## CREDITS

```
> import java.awt.Color; ...

> /**
>  * 
>  * @author allen
>  */
> public class Credits extends javax.swing.JFrame {

>     /**
>      * 
>      */
>     public Credits() { ...

>         public void scaleImage() { ...

>             private void fadeInImage(JLabel label, ImageIcon icon) { ...
>                 Clip clip;

>                 public void playSound(String soundFile) { ...

>                     /**
>                      @SuppressWarnings("unchecked")
>                      // <editor-fold defaultstate="collapsed" desc="Generated Code">/GEN-BEGIN:initComponents ...
>
>                      private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed ...
>
>                          /**
>                           Run|Debug
>                           public static void main(String args[]) { ...

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.border.EmptyBorder emptyBorder1;
private javax.swing.JButton jButton1;
private javax.swing.JDialog jDialog1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel11;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JPanel jPanel5;
private javax.swing.JPanel jPanel6;
private javax.swing.JPanel jPanel8;
private javax.swing.JProgressBar jProgressBar1;
private javax.swing.JLabel lbl_img1;
private javax.swing.JLabel lbl_img2;
private javax.swing.JLabel lbl_img3;
private javax.swing.JLabel lbl_img4;
private javax.swing.JLabel lbl_name1;
private javax.swing.JLabel lbl_name10;
private javax.swing.JLabel lbl_name2;
private javax.swing.JLabel lbl_name3;
private javax.swing.JLabel lbl_name4;
private javax.swing.JLabel lbl_name5;
private javax.swing.JLabel lbl_name6;
private javax.swing.JLabel lbl_name7;
private javax.swing.JLabel lbl_name8;
private javax.swing.JLabel lbl_name9;
// End of variables declaration//GEN-END:variables
}
```

ADMIN

```
> import java.awt.Colon; ...

> /**
> /**
> public class Administrator extends javax.swing.JFrame {
>
> /**
> public Administrator() {
>
> private void startRealTimeUpdate() {
>
> Connection con;
> /* SQL Statement */
> Statement st;
> PreparedStatement pst;
> ResultSet rs;
>
> private static final String DBname = "maids_database";
> private static final String DBdriver = "com.mysql.cj.jdbc.Driver";
> private static final String DBurl = "jdbc:mysql://localhost:3306/" + DBname;
> private static final String DBIDNumber = "root";
> private static final String DBPassword = "";
>
> public void Connectivity() throws SQLException {
>
> /**
> @SuppressWarnings("unchecked")
> // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents...
>
> public void loadData() {
> private void info_tblMouseClicked(java.awt.event.MouseEvent evt) {//GEN-FIRST:event_info_tblMouseClicked...
>
> private void btn_backActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_btn_backActionPerformed...
>
> private void btn_dlteActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_btn_dlteActionPerformed...
>
> private void btn_clrActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_btn_clrActionPerformed...
>
> private void btn_updateActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_btn_updateActionPerformed...
>
> //INSERT BUTTON
> private void btn_insertActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_btn_insertActionPerformed...
>
> private void check_NurseActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_check_NurseActionPerformed...
>
> private void check_DoctorActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_check_DoctorActionPerformed...
>
> /**
> Run|Debug
> public static void main(String args[]) {
>
> // Variables declaration - do not modify//GEN-BEGIN:variables
> private javax.swing.JButton btn_back;
> private javax.swing.JButton btn_clr;
> private javax.swing.JButton btn_dlte;
> private javax.swing.JButton btn_insert;
> private javax.swing.JButton btn_update;
> private javax.swing.JCheckBox check_Doctor;
> private javax.swing.JCheckBox check_Nurse;
> private javax.swing.JTable info_tbl;
> private javax.swing.JLabel jLabel3;
> private javax.swing.JLabel jLabel5;
> private javax.swing.JPanel jPanel1;
> private javax.swing.JPanel jPanel2;
> private javax.swing.JPanel jPanel3;
> private javax.swing.JScrollPane jScrollPane1;
> private javax.swing.JSpinner jSpinner1;
> private java.awt.Label label1;
> private javax.swing.JLabel lbl_Status;
> private javax.swing.JLabel lbl(firstName);
> private javax.swing.JLabel lbl(lastName);
> private javax.swing.JLabel lbl_patientLabel;
> private javax.swing.JLabel lbl_patientLabel1;
> private javax.swing.JTextField txt(firstName);
> private javax.swing.JTextField txt(lastName);
>
> // End of variables declaration//GEN-END:variables
```