

SIKSHA 'O' ANUSANDHAN

DEEMED TO BE UNIVERSITY

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End-Term Project Report

Computer Science Workshop 1 (CSE 3141)

Submitted by

Name: Rahul Kumar Jha

Registration No.: 1941012186

Branch: Computer Science and Engineering (C.S.E.)

Semester: 3rd Semester Section: C.S.E.- 'C'



Department of Computer Science & Engineering

Faculty of Engineering & Technology (ITER)

Jagamohan Nagar, Jagamara, Bhubaneswar, Odisha - 751030

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*** PROBLEM STATEMENT**

Municipal Data Management System

This project is a simple Municipal Data Management System. In this project you will be learning how to add new person record to the database, how to generate a 5 digit unique ID for each person, how to remove a person from active list to the dead person list if you are issuing death certificate, person location in the given ward. Also, you will be implementing the following operations add, view, show status, etc. The status will show all the details of the person including name, id, date of birth, occupation, family type (single or joint).

Instruction for implementation:

- Design GUI based inter face for user, by using which user able to login to system with proper authentication.
- Specify operation according to types of use i.e., if the user is administrator, he/she able to insert, update, and display data from database. If the user is a general user, he only able to see the information of a person.
- User able to get the status of the person in a nicely formatted text file.
- Use any database (Oracle/Mysql) to store the required data.

* PROBLEM ANALYSIS

As per the problem, it has been asked to design a simple **Municipal Database Management System** using a Java GUI and any of the databases (Oracle/MySQL) to store the required data.

The basic requirements to be downloaded and installed in the system execute this project are:

- **MySQL Community Server**
- **MySQL JDBC Connector**
- **Java SE Development Kit (JDK)**

As, this is the Java GUI based project for data management system, the major components (classes, interfaces, etc.) which we would be using are from packages such as:

- **javax.swing,**
- **java.awt,**
- **java.sql, and**
- **java.io**

The requirement for this project is to create two login panels (Administrator/General Login) depending upon the type of user. The Administrator User should be able to perform the following tasks such as: **to add new person record to the database, update the existing record a person, remove a person from active list to the dead person list if you are issuing death certificate and, view all the data from the database and get the proper formatted text file ; only after logging in successfully.** In addition to that, the administration would also have the authority to add new administrator user. But in the case of the General User (he/she) **would only be able to see all their details including name, a 5 digit unique ID id, date of birth, occupation, family type (single or joint), etc.;** and the user would also be able to print the death certificate in the same page if **and only if the death certificate is been issued by the Administrator User.**

To execute all these above conditions we need implement the following classes which are being listed below:

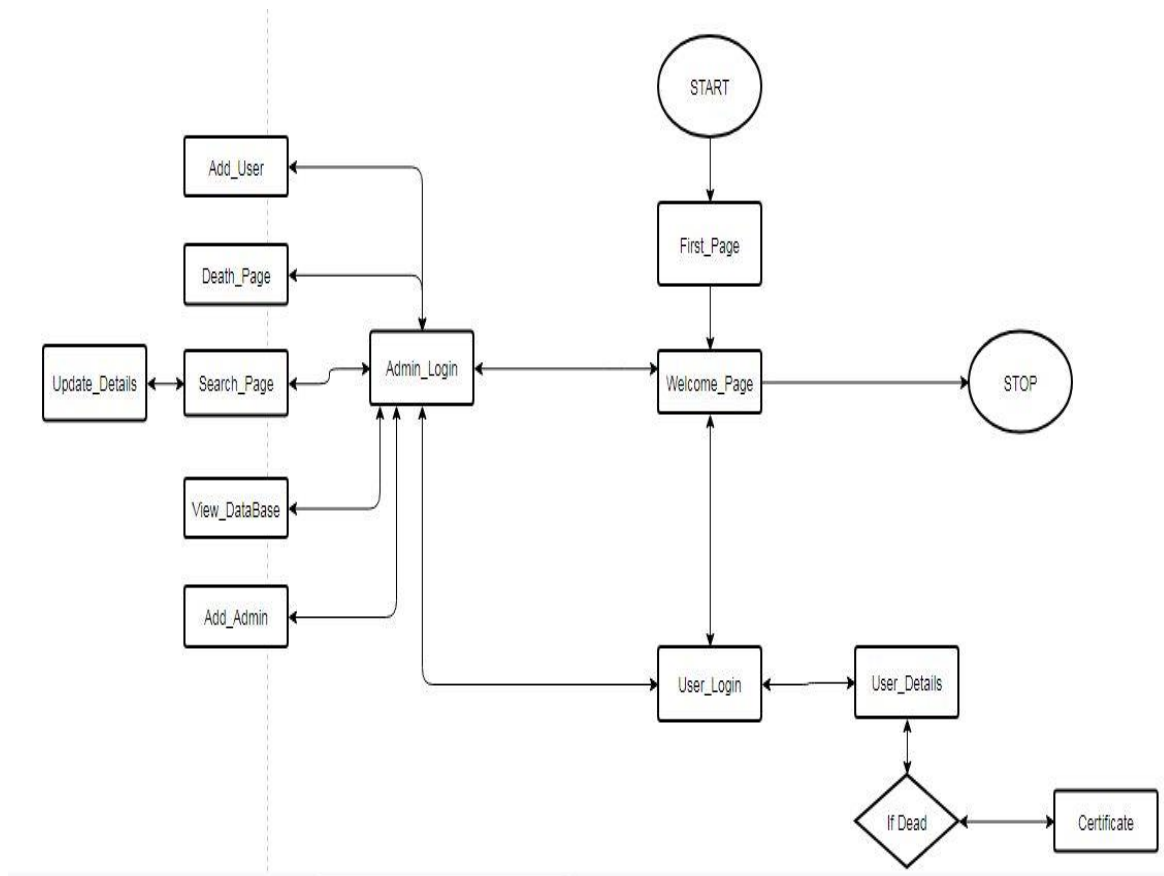
- **Main.java** - Firstly, establish a secure connection with MySQL database using MySQL JDBC connector using DriverManager and check if database is already present or not. If not, then i have created a new Database with **MunicipalData**. Now, similarly i checked tables(**login_table** and **municipal_data**) also, if not, i have created them in the same database.

And added default system generated **username: admin and password: admin**, for the admin user in the login_table. And all the function which are needed to be implemented listed above through the database can be only possible by creating a secure condition through this class by call its constructor.

- **First_Page.java** - It is first page of the project which needed to be executed.
- **Welcome_Page.java** - It is the welcome screen of the project where option for both the login panels are provided and to be selected.
- **Admin_Login.java** - It is the login panel for the administrator where login credentials to be verified.
- **Menu_Page.java** - It is Administrator Menu Page where we get the following functionality such as, Add New User, Add To Death List, Update User Details, View DataBase, View Person Status and Add Admin User.
- **Add_User.java** - To add new person details and generate **Unique ID** by the system from the background using which all the task for using to be executed and details to displayed and implemented.
- **Death_Page.java** - To delete a person details from active list and add person to death list to generate death certificate.
- **Search_Page.java** - To search user details using unique ID to update user details.
- **Update_Page.java** - To update user details present in the database.
- **View_DataBase.java** - To view all the database details including table both the table details and download a nicely formed text file of details.
- **User_Login.java** - It is a login page for user where login credentials to be verified with (Unique ID and Date of Birth).
- **User_Details.java** - To fetch and display all the details of the database of the particular person from the database.
- **Certificate.java** - To display death certificate a person and can be accessible to only those whose name are registered in death list.
- **Add_Admin.java** - To add admin user to the the database.

In order to provide a clearer picture of the functionality provided by the **Municipal DataBase Management System**, we have done a use case analysis. Figure below is a use Flow Chart diagram to present the functionality in the system management.

* Flow Chart



* CODING

To access all the .java file of program classes '1941012186_Rahul Kumar Jha_C.S.E.-C.zip' file is attached.

First_Page.java

```
/*
*Municipal Data Management System
This project is a simple Municipal Data Management System. In this
project you will be learning how
to add new person record to the database, how to generate a 5 digit
unique ID for each person, how to
remove a person from active list to the dead person list if you are issuing
death certificate, person
location in the given ward. Also, you will be implementing the following
operations add, view, show
status, etc. The status will show all the details of the person including
name, id, date of birth,
occupation, family type (single or joint).
*First_Page.java - It is first page of the project which needed to be
executed.
*Author: Rahul Kumar Jha,
*Regd. No.-1941012186
*Section- C.S.E.-'C'
*Date Of Editing- 14 February, 2021
*/
import java.awt.Color;
import java.awt.Font;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JProgressBar;
public class First_Page
{
    JFrame f;
    JLabel l1,l2,l3;
    JProgressBar p;
    First_Page()
    {
        f=new JFrame("Municipal Data Management System");
        f.setUndecorated(true);
        f.setSize(600,400);
        f.setLayout(null);
        f.setLocationRelativeTo(null);
```

```

f.getContentPane().setBackground(Color.DARK_GRAY);

l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM ");
l1.setBounds(20,0,600,100);
l1.setFont(new Font("Times New Roman",Font.BOLD,26));
l1.setForeground(Color.YELLOW);
f.add(l1);

l2=new JLabel("BY: RAHUL KUMAR JHA");
l2.setBounds(185,125,250,100);
l2.setFont(new Font("Times New Roman",Font.BOLD,20));
l2.setForeground(Color.YELLOW);
f.add(l2);

l3=new JLabel("Loading 0 %");
l3.setBounds(220,235,175,100);
l3.setFont(new Font("Times New Roman",Font.BOLD,20));
l3.setForeground(Color.YELLOW);
f.add(l3);

p=new JProgressBar();
p.setBounds(18,310,550,25);
p.setBackground(Color.GRAY);
p.setForeground(Color.YELLOW);
f.add(p);

f.setVisible(true);

try
{
    for(int i=0;i<=100;i++)
    {
        p.setValue(i);
        Thread.sleep(50);
        l3.setText("Loading "+i+" %");
    }
    f.dispose();
    new Welcome_Page(0);
}
catch(Exception e)
{
    e.printStackTrace();
}
}

public static void main(String[] args)

```



```

    {
        new First_Page();
    }
}

```

Welcome_Page.java

```

/*
 *Welcome_Page.java - It is the welcome screen of the project where
option for both the login panels are provided and to be selected.
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
public class Welcome_Page implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5,l6;
    JButton b1,b2;
    Welcome_Page(int i)
    {
        f=new JFrame("Home");
        f.setResizable(false);
        f.setLayout(null);
        f.setSize(800,500);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setLocationRelativeTo(null);
        f.getContentPane().setBackground(Color.DARK_GRAY);

        l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM");
        l1.setBounds(20,0,740,100);
        l1.setFont(new Font("Times New Roman",Font.BOLD,34));
        l1.setForeground(Color.YELLOW);
        f.add(l1);

        l2=new JLabel();

```

```
l2.setLayout(null);
l2.setBounds(115,125,250,225);

l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
f.add(l2);

l3=new JLabel();
l3.setLayout(null);
l3.setBounds(420,125,250,225);

l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
f.add(l3);

l4=new JLabel(" ADMIN LOGIN ");
l4.setBounds(0,0,250,50);
l4.setFont(new Font("Times New Roman",Font.BOLD,32));
l4.setForeground(Color.WHITE);

l4.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
l2.add(l4);

l5=new JLabel(" USER LOGIN");
l5.setBounds(0,0,250,50);
l5.setFont(new Font("Times New Roman",Font.BOLD,32));
l5.setForeground(Color.WHITE);

l5.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
l3.add(l5);

b1=new JButton("CLICK HERE");
b1.setBounds(25,150,200,50);
b1.setBackground(Color.GRAY);
b1.setForeground(Color.YELLOW);
b1.setFont(new Font("Times New Roman",Font.BOLD,25));
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.addActionListener(this);

b1.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
l2.add(b1);

b2=new JButton("CLICK HERE");
b2.setBounds(25,150,200,50);
b2.setBackground(Color.GRAY);
b2.setForeground(Color.YELLOW);
b2.setFont(new Font("Times New Roman",Font.BOLD,25));
```

```

        b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b2.addActionListener(this);

        b2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
        l3.add(b2);

        l6=new JLabel("BY:- RAHUL KUMAR JHA");
        l6.setLayout(null);
        l6.setBounds(275,400,400,40);
        l6.setForeground(Color.YELLOW);
        l6.setFont(new Font("Times New Roman",Font.BOLD,20));
        f.add(l6);

        f.setVisible(true);

        if(i==0)
        {
            while(true)
            {
                l1.setVisible(false);
                try
                {
                    Thread.sleep(500);
                }
                catch(Exception e)
                {
                }
                l1.setVisible(true);
                try
                {
                    Thread.sleep(500);
                }
                catch(Exception e)
                {
                }
            }
        }
    }

    public void actionPerformed(ActionEvent e)
    {
        f.dispose();
        if(e.getSource()!=b1)
            new Admin_Login();
    }

```

```

        else
            new User_Login(0);
    }
    public static void main(String[] args)
    {
        new Welcome_Page(0);
    }
}

```

Main.java

```

/*
 *Main.java - Firstly, establish a secure connection with MySQL database
using MySQL JDBC connector using DriverManager and check if database is
already present or not. If not, then i have created a new Database with
MunicipalData. Now, similarly i checked tables(login_table and
municipal_data) also, if not, i have created them in the same database.
And added default system generated username: admin and password:
admin, for the admin user in the login_table. And all the function which
are needed to be implemented listed above through the database can be
only possible by creating a secure condition through this class by call its
constructor.
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
public class Main
{
    public Connection c;
    public Statement s;
    String JDBC_DRIVER="com.mysql.jdbc.Driver";
    String DB_URL="jdbc:mysql://localhost/";
    String username="root";
    String password="root";
    String project="MunicipalData";
    Main()
    {
        try
        {
            Class.forName(JDBC_DRIVER);

```

```

c=DriverManager.getConnection(DB_URL,username,password);
s=c.createStatement();
String name="create database if not exists "+project;
s.executeUpdate(name);
String db="use "+project;
s.executeQuery(db);
String login="create table if not exists
login_table(username varchar(50),password varchar(50))";
s.executeUpdate(login);
String active="create table if not exists
municipal_data(id varchar(5),username varchar(50),gender varchar(6),dob
varchar(20),occupation varchar(50),family varchar(6),address
varchar(100),dod varchar(20),status varchar(5),place varchar(100))";
s.executeUpdate(active);
String c="select count(*) from login_table";
ResultSet rs=s.executeQuery(c);

if(rs.next())
{
    int n=Integer.parseInt(rs.getString("count(*)"));
    if(n==0)
    {
        String insert="insert into login_table
values('admin','admin')";
        s.executeUpdate(insert);
    }
}
}
catch(SQLException e)
{
    e.printStackTrace();
}
catch(Exception e)
{
    e.printStackTrace();
}
}
public static void main(String[] args)
{
    new Main();
}
}

```

```

/*
*Admin_Login.java - It is the login panel for the administrator where login
credentials to be verified.
*Author: Rahul Kumar Jha,
*Regd. No.-1941012186
*Section- C.S.E.-'C'
*Date Of Editing- 14 February, 2021
*/
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPasswordField;
import javax.swing.JTextField;
public class Admin_Login implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5;
    JTextField t;
    JPasswordField p;
    JButton b1,b2;
    Admin_Login()
    {
        f=new JFrame("Admin Login");
        f.setSize(600,400);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setResizable(false);
        f.setLayout(null);
        f.setLocationRelativeTo(null);
        f.getContentPane().setBackground(Color.DARK_GRAY);

        l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM ");
        l1.setBounds(20,0,600,100);
        l1.setFont(new Font("Times New Roman",Font.BOLD,26));
        l1.setForeground(Color.YELLOW);
        f.add(l1);

        l2=new JLabel();

```

```
l2.setBounds(40,100,500,225);
l2.setFont(new Font("Times New Roman",Font.BOLD,20));
l2.setForeground(Color.YELLOW);

l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
f.add(l2);

l3=new JLabel(" ADMIN LOGIN ");
l3.setBounds(0,0,500,50);
l3.setFont(new Font("Times New Roman",Font.BOLD,25));
l3.setForeground(Color.WHITE);

l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
l2.add(l3);

l4=new JLabel("USERNAME:");
l4.setBounds(85,80,125,30);
l4.setFont(new Font("Times New Roman",Font.BOLD,20));
l4.setForeground(Color.WHITE);
l2.add(l4);

l5=new JLabel("PASSWORD:");
l5.setBounds(85,120,125,30);
l5.setFont(new Font("Times New Roman",Font.BOLD,20));
l5.setForeground(Color.WHITE);
l2.add(l5);

t=new JTextField();
t.setBounds(225,80,205,30);
t.setFont(new Font("Times New Roman",Font.BOLD,15));
t.setForeground(Color.BLACK);
t.setBackground(Color.WHITE);
l2.add(t);

p=new JPasswordField();
p.setBounds(225,120,205,30);
p.setFont(new Font("Times New Roman",Font.BOLD,20));
p.setForeground(Color.BLACK);
p.setBackground(Color.WHITE);
l2.add(p);

b1=new JButton("SUBMIT");
b1.setBounds(225,170,100,25);
b1.setFont(new Font("Times New Roman",Font.BOLD,15));
b1.setForeground(Color.YELLOW);
```

```

        b1.setBackground(Color.GRAY);
        b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b1.addActionListener(this);
        l2.add(b1);

        b2=new JButton("BACK");
        b2.setBounds(330,170,100,25);
        b2.setFont(new Font("Times New Roman",Font.BOLD,15));
        b2.setForeground(Color.YELLOW);
        b2.setBackground(Color.GRAY);
        b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b2.addActionListener(this);
        l2.add(b2);

        f.setVisible(true);
    }
    public void actionPerformed(ActionEvent ae)
    {
        if(ae.getSource()==b1)
        {
            try
            {
                Main obj=new Main();
                String username=t.getText();
                String password=new String(p.getPassword());
                String str="select * from login_table where
username='"+username+"' and password='"+password+"'";
                ResultSet rs=obj.s.executeQuery(str);
                if(rs.next())
                {
                    new Menu_Page();
                    f.dispose();
                }
                else
                {
                    JOptionPane.showMessageDialog(null,"Invalid Login");
                    t.setText(null);
                    p.setText(null);
                }
            }
            catch(Exception e)
            {
                e.printStackTrace();
            }
        }
    }

```



```

        }
        else
        {
            new Welcome_Page(1);
            f.dispose();
        }

    }

    public static void main(String[] args)
    {
        new Admin_Login();
    }
}

```

Menu_Page.java

```

/*
 *Menu_Page.java - It is Administrator Menu Page where we get the
 following functionality such as, Add New User, Add To Death List, Update
 User Details, View DataBase, View Person Status and Add Admin User.
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
public class Menu_Page implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3;
    JButton b,b1,b2,b3,b4,b5,b6;
    Menu_Page()
    {
        f=new JFrame(" Menu ");
        f.setResizable(false);
        f.setLayout(null);
        f.setSize(800,600);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    }
}

```

```
f.setLocationRelativeTo(null);  
f.getContentPane().setBackground(Color.DARK_GRAY);  
  
l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM");  
l1.setBounds(20,0,740,100);  
l1.setFont(new Font("Times New Roman",Font.BOLD,34));  
l1.setForeground(Color.YELLOW);  
f.add(l1);
```

```
l2=new JLabel();  
l2.setBounds(40,100,700,400);  
l2.setFont(new Font("Times New Roman",Font.BOLD,20));  
l2.setForeground(Color.YELLOW);
```

```
l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));  
f.add(l2);
```

```
l3=new JLabel(" ADMIN MENU ");  
l3.setBounds(0,0,700,75);  
l3.setFont(new Font("Times New Roman",Font.BOLD,30));  
l3.setForeground(Color.WHITE);
```

```
l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));  
l2.add(l3);
```

```
b=new JButton("LOGOUT");  
b.setBounds(555,25,125,30);  
b.setFont(new Font("Times New Roman",Font.BOLD,20));  
b.setForeground(Color.YELLOW);  
b.setBackground(Color.GRAY);  
b.setCursor(new Cursor(Cursor.HAND_CURSOR));  
b.addActionListener(this);  
l3.add(b);
```

```
b1=new JButton("NEW REGISTRATION");  
b1.setBounds(80,130,240,50);  
b1.setFont(new Font("Times New Roman",Font.BOLD,20));  
b1.setForeground(Color.YELLOW);  
b1.setBackground(Color.GRAY);  
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));  
b1.addActionListener(this);  
l2.add(b1);
```

```
b2=new JButton("ADD TO DEATH LIST");  
b2.setBounds(375,130,240,50);
```

```
b2.setFont(new Font("Times New Roman",Font.BOLD,20));
b2.setForeground(Color.YELLOW);
b2.setBackground(Color.GRAY);
b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
b2.addActionListener(this);
l2.add(b2);
```

```
b3=new JButton("UPDATE DETAILS");
b3.setBounds(80,210,240,50);
b3.setFont(new Font("Times New Roman",Font.BOLD,20));
b3.setForeground(Color.YELLOW);
b3.setBackground(Color.GRAY);
b3.setCursor(new Cursor(Cursor.HAND_CURSOR));
b3.addActionListener(this);
l2.add(b3);
```

```
b4=new JButton("VIEW DATABASE");
b4.setBounds(375,210,240,50);
b4.setFont(new Font("Times New Roman",Font.BOLD,20));
b4.setForeground(Color.YELLOW);
b4.setBackground(Color.GRAY);
b4.setCursor(new Cursor(Cursor.HAND_CURSOR));
b4.addActionListener(this);
l2.add(b4);
```

```
b5=new JButton("VIEW DETAILS");
b5.setBounds(80,290,240,50);
b5.setFont(new Font("Times New Roman",Font.BOLD,20));
b5.setForeground(Color.YELLOW);
b5.setBackground(Color.GRAY);
b5.setCursor(new Cursor(Cursor.HAND_CURSOR));
b5.addActionListener(this);
l2.add(b5);
```

```
b6=new JButton("ADMIN REGISTER");
b6.setBounds(375,290,240,50);
b6.setFont(new Font("Times New Roman",Font.BOLD,20));
b6.setForeground(Color.YELLOW);
b6.setBackground(Color.GRAY);
b6.setCursor(new Cursor(Cursor.HAND_CURSOR));
b6.addActionListener(this);
l2.add(b6);
```

```
f.setVisible(true);
```

```
}
```

```

    public static void main(String[] args)
    {
        new Menu_Page();
    }
    public void actionPerformed(ActionEvent e)
    {
        if(e.getSource()==b)
            new Admin_Login();
        else if(e.getSource()==b1)
            new Add_User();
        else if(e.getSource()==b2)
            new Death_Page();
        else if(e.getSource()==b3)
            new Search_Page();
        else if(e.getSource()==b4)
            new View_DataBase();
        else if(e.getSource()==b6)
            new Add_Admin();
        else
            new User_Login(1);
        f.dispose();
    }
}

```

Add_User.java

```

/*
 *Add_User.java - To add new person details and generate Unique ID by
the system from the background using which all the task for using to be
executed and details to displayed and implemented.
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;

```

```

import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JRadioButton;
import javax.swing.JTextField;
public class Add_User implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5,l6,l7,l8;
    JTextField t1,t2,t3;
    JRadioButton r1,r2,r3,r4,r5;
    JComboBox day,month,year;
    JButton b1,b2;
    Add_User()
    {
        f=new JFrame(" Add User ");
        f.setResizable(false);
        f.setLayout(null);
        f.setSize(800,600);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setLocationRelativeTo(null);
        f.getContentPane().setBackground(Color.DARK_GRAY);

        l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM");
        l1.setBounds(20,0,740,100);
        l1.setFont(new Font("Times New Roman",Font.BOLD,34));
        l1.setForeground(Color.YELLOW);
        f.add(l1);

        l2=new JLabel();
        l2.setBounds(40,100,700,400);
        l2.setFont(new Font("Times New Roman",Font.BOLD,20));
        l2.setForeground(Color.YELLOW);

        l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
        f.add(l2);

        l3=new JLabel(" USER REGISTRATION ");
        l3.setBounds(0,0,700,75);
        l3.setFont(new Font("Times New Roman",Font.BOLD,30));
        l3.setForeground(Color.WHITE);

        l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
        l2.add(l3);

        l4=new JLabel("Name:");

```

```
l4.setBounds(100,100,80,25);
l4.setFont(new Font("Times New Roman",Font.BOLD,20));
l4.setForeground(Color.WHITE);
l2.add(l4);
```

```
t1=new JTextField();
t1.setBounds(275,100,300,25);
t1.setFont(new Font("Times New Roman",Font.PLAIN,20));
t1.setForeground(Color.WHITE);
t1.setForeground(Color.BLACK);
l2.add(t1);
```

```
l=new JLabel("Gender:");
l.setBounds(100,135,95,25);
l.setFont(new Font("Times New Roman",Font.BOLD,20));
l.setForeground(Color.WHITE);
l2.add(l);
```

```
ButtonGroup g1=new ButtonGroup();
r1=new JRadioButton("Male");
r2=new JRadioButton("Female");
r3=new JRadioButton("Others");
r1.setBounds(275,135,75,25);
r2.setBounds(360,135,75,25);
r3.setBounds(445,135,75,25);
r1.setSelected(true);
g1.add(r1);
g1.add(r2);
g1.add(r3);
l2.add(r1);
l2.add(r2);
l2.add(r3);
```

```
l5=new JLabel("Date Of Birth:");
l5.setBounds(100,170,160,25);
l5.setFont(new Font("Times New Roman",Font.BOLD,20));
l5.setForeground(Color.WHITE);
l2.add(l5);
```

```
String d[]=new String[31];
for(int i=0,j=1;i<31;i++,j++)
    d[i]=j+"";
String m[]=
{"January","February","March","April","May","June","July","August","Se
ptember","October","November","December"};
```

```
String y[]=new String[121];
for(int i=0,j=1901;i<121;i++,j++)
    y[i]=j+"";
day=new JComboBox(d);
month=new JComboBox(m);
year=new JComboBox(y);
day.setBounds(275,170,50,25);
month.setBounds(335,170,100,25);
year.setBounds(445,170,65,25);
l2.add(day);
l2.add(month);
l2.add(year);

l6=new JLabel("Occupation:");
l6.setBounds(100,205,140,25);
l6.setFont(new Font("Times New Roman",Font.BOLD,20));
l6.setForeground(Color.WHITE);
l2.add(l6);

t2=new JTextField();
t2.setBounds(275,205,300,25);
t2.setFont(new Font("Times New Roman",Font.PLAIN,20));
t2.setForeground(Color.WHITE);
t2.setForeground(Color.BLACK);
l2.add(t2);

l7=new JLabel("Family Type:");
l7.setBounds(100,240,150,25);
l7.setFont(new Font("Times New Roman",Font.BOLD,20));
l7.setForeground(Color.WHITE);
l2.add(l7);

ButtonGroup g2=new ButtonGroup();
r4=new JRadioButton("Single");
r5=new JRadioButton("Joint");
r4.setBounds(275,240,75,25);
r5.setBounds(360,240,75,25);
g2.add(r4);
g2.add(r5);
r4.setSelected(true);
l2.add(r4);
l2.add(r5);

l8=new JLabel("Address:");
l8.setBounds(100,275,105,25);
```

```

l8.setFont(new Font("Times New Roman",Font.BOLD,20));
l8.setForeground(Color.WHITE);
l2.add(l8);

t3=new JTextField();
t3.setBounds(275,275,300,25);
t3.setFont(new Font("Times New Roman",Font.PLAIN,20));
t3.setForeground(Color.WHITE);
t3.setForeground(Color.BLACK);
l2.add(t3);

b1=new JButton("SUBMIT");
b1.setBounds(290,320,120,25);
b1.setFont(new Font("Times New Roman",Font.BOLD,20));
b1.setForeground(Color.YELLOW);
b1.setBackground(Color.GRAY);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.addActionListener(this);
l2.add(b1);

b2=new JButton("BACK");
b2.setBounds(440,320,120,25);
b2.setFont(new Font("Times New Roman",Font.BOLD,20));
b2.setForeground(Color.YELLOW);
b2.setBackground(Color.GRAY);
b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
b2.addActionListener(this);
l2.add(b2);

f.setVisible(true);
}
public void actionPerformed(ActionEvent e)
{
    if(e.getSource()==b1)
    {
        String name=t1.getText();
        if((name.trim()).equals(""))
            JOptionPane.showMessageDialog(null,"Name Is
Empty");
        else
        {
            String gender="";
            if(r1.isSelected())
                gender="Male";
            else if(r2.isSelected())

```



```

        gender="Female";
    else if(r3.isSelected())
        gender="Others";
    String dob=day.getSelectedItem()+"
"+month.getSelectedItem()+" "+year.getSelectedItem();
    String occupation=t2.getText();
    if((occupation.trim()).equals(""))

        JOptionPane.showMessageDialog(null,"Occupation Is Empty");
    else
    {
        String family="";
        if(r4.isSelected())
            family="Single";
        else if(r5.isSelected())
            family="Joint";
        String address=t3.getText();
        if((address.trim()).equals(""))

            JOptionPane.showMessageDialog(null,"Address Is Empty");
        else
        {
            int id=10001;
            String str="";
            try
            {
                name=name.trim();
                occupation=occupation.trim();
                address=address.trim();
                Main cc=new Main();
                String str1="select count(*)
from municipal_data";

                ResultSet
rs1=cc.s.executeQuery(str1);

                if(rs1.next())

                    str=id+Integer.parseInt(rs1.getString("count(*)"))+"";
                    String str2="insert into
municipal_data
values('"+str+"','"+name+"','"+gender+"','"+dob+"','"+occupation+"','"+fa
mily+"','"+address+"','','Alive','')";

                    cc.s.executeUpdate(str2);

                    JOptionPane.showMessageDialog(null,"Insertation Sucessful, ID
No.: "+str);

```

```

        new Menu_Page();
        f.dispose();
    }
    catch(Exception e1)
    {
        e1.printStackTrace();
    }
}

}

}
else
{
    new Menu_Page();
    f.dispose();
}
}
public static void main(String[] args)
{
    new Add_User();
}
}

```

Death_Page.java

```

/*
 *Death_Page.java - To delete a person details from active list and add
person to death list to generate death certificate.
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;

```

```

import javax.swing.JTextField;
public class Death_Page implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5,l6,l7,l8;
    JTextField t1,t2;
    JButton b1,b2,b3,b4;
    JComboBox day,month,year;
    Death_Page()
    {
        f=new JFrame("Death List Registration");
        f.setResizable(false);
        f.setLayout(null);
        f.setSize(800,600);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setLocationRelativeTo(null);
        f.getContentPane().setBackground(Color.DARK_GRAY);

        l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM");
        l1.setBounds(20,0,740,100);
        l1.setFont(new Font("Times New Roman",Font.BOLD,34));
        l1.setForeground(Color.YELLOW);
        f.add(l1);

        l2=new JLabel();
        l2.setBounds(40,100,700,400);
        l2.setFont(new Font("Times New Roman",Font.BOLD,20));
        l2.setForeground(Color.YELLOW);

        l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
        f.add(l2);

        l3=new JLabel(" DEATH LIST REGISTRATION ");
        l3.setBounds(0,0,700,75);
        l3.setFont(new Font("Times New Roman",Font.BOLD,30));
        l3.setForeground(Color.WHITE);

        l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
        l2.add(l3);

        l4=new JLabel("U.I.D. No.-");
        l4.setBounds(180,100,100,25);
        l4.setFont(new Font("Times New Roman",Font.BOLD,20));
        l4.setForeground(Color.WHITE);
        l2.add(l4);
    }
}

```

```

t1=new JTextField();
t1.setBounds(300,100,205,25);
t1.setFont(new Font("Times New Roman",Font.BOLD,20));
t1.setForeground(Color.WHITE);
t1.setForeground(Color.BLACK);
l2.add(t1);

b1=new JButton("SUBMIT");
b1.setBounds(300,145,100,25);
b1.setFont(new Font("Times New Roman",Font.BOLD,15));
b1.setForeground(Color.YELLOW);
b1.setBackground(Color.GRAY);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.addActionListener(this);
l2.add(b1);

b2=new JButton("CANCEL");
b2.setBounds(405,145,100,25);
b2.setFont(new Font("Times New Roman",Font.BOLD,15));
b2.setForeground(Color.YELLOW);
b2.setBackground(Color.GRAY);
b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
b2.addActionListener(this);
l2.add(b2);

f.setVisible(true);
}
public static void main(String[] args)
{
    new Death_Page();
}
public void actionPerformed(ActionEvent e)
{
    if(e.getSource()==b1)
    {
        try
        {
            Main c1=new Main();
            String str="select * from municipal_data where id
= '"+t1.getText()+"'";
            ResultSet rs=c1.s.executeQuery(str);
            if(rs.next())
            {
                if(rs.getString("status").equals("Alive"))

```

```

{
l5=new JLabel("Name:");
l5.setBounds(150,200,160,25);
l5.setFont(new Font("Times New
Roman",Font.BOLD,20));

l5.setForeground(Color.WHITE);
l2.add(l5);

l6=new JLabel(rs.getString("username"));
l6.setBounds(300,200,205,25);
l6.setFont(new Font("Times New
Roman",Font.BOLD,20));

l6.setForeground(Color.WHITE);
l2.add(l6);

l7=new JLabel("Date Of Death:");
l7.setBounds(150,230,160,25);
l7.setFont(new Font("Times New
Roman",Font.BOLD,20));

l7.setForeground(Color.WHITE);
l2.add(l7);

String d[]=new String[31];
for(int i=0,j=1;i<31;i++,j++)
    d[i]=j+"";
String m[]=
{"January","February","March","April","May","June","July","August","Se
ptember","October","November","December"};
String y[]=new String[121];
for(int i=0,j=1901;i<121;i++,j++)
    y[i]=j+"";
day=new JComboBox(d);
month=new JComboBox(m);
year=new JComboBox(y);
day.setBounds(300,230,50,25);
month.setBounds(355,230,100,25);
year.setBounds(460,230,65,25);
l2.add(day);
l2.add(month);
l2.add(year);

l8=new JLabel("Place:");
l8.setBounds(150,260,160,25);
l8.setFont(new Font("Times New
Roman",Font.BOLD,20));

```

```

l8.setForeground(Color.WHITE);
l2.add(l8);

t2=new JTextField();
t2.setBounds(300,260,225,25);
t2.setFont(new Font("Times New
Roman",Font.BOLD,15));

t2.setForeground(Color.BLACK);
l2.add(t2);

b3=new JButton("SUBMIT");
b3.setBounds(310,310,100,25);
b3.setFont(new Font("Times New
Roman",Font.BOLD,15));

b3.setForeground(Color.YELLOW);
b3.setBackground(Color.GRAY);
b3.setCursor(new
Cursor(Cursor.HAND_CURSOR));
b3.addActionListener(this);
l2.add(b3);

b4=new JButton("BACK");
b4.setBounds(415,310,100,25);
b4.setFont(new Font("Times New
Roman",Font.BOLD,15));

b4.setForeground(Color.YELLOW);
b4.setBackground(Color.GRAY);
b4.setCursor(new
Cursor(Cursor.HAND_CURSOR));
b4.addActionListener(this);
l2.add(b4);

b1.setVisible(false);
b2.setVisible(false);
f.setVisible(false);
f.setVisible(true);
}
else
{

JOptionPane.showMessageDialog(null,"Already Registered");
t1.setText("");

}

}

```

```

        else
        {

JOptionPane.showMessageDialog(null,"Invalid Login");
            t1.setText("");
        }
    }
    catch(Exception e1)
    {
        e1.printStackTrace();
    }
}
else if(e.getSource()==b3)
{
    if((t2.getText().trim()).equals(""))
    {
        JOptionPane.showMessageDialog(null,"Place Of
Death Is Empty");
    }
    else
    {
        try
        {
            Main c2=new Main();
            String str2="update municipal_data set
dod='"+day.getSelectedItemAt()+" "+month.getSelectedItemAt()+"
"+year.getSelectedItemAt()+"',status='Dead',place='"+t2.getText()+"' where
id='"+t1.getText()+"'";
            c2.s.executeUpdate(str2);

JOptionPane.showMessageDialog(null,"Insertation Sucessful In
Death List");

            new Menu_Page();
            f.dispose();
        }
        catch(Exception e1)
        {
            e1.printStackTrace();
        }
    }
}
else
{
    new Menu_Page();
}

```

```

        f.dispose();
    }
}

```

Search_Page.java

```

/*
 *Search_Page.java - To search user details using unique ID to update user
details.
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
public class Search_Page implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4;
    JTextField t;
    JButton b1,b2;
    Search_Page()
    {
        f=new JFrame("Search User");
        f.setSize(500,300);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setResizable(false);
        f.setLayout(null);
        f.setLocationRelativeTo(null);
        f.getContentPane().setBackground(Color.DARK_GRAY);

        l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM ");
        l1.setBounds(4,0,480,55);
    }
}

```



```
l1.setFont(new Font("Times New Roman",Font.BOLD,22));  
l1.setForeground(Color.YELLOW);  
f.add(l1);
```

```
l2=new JLabel();  
l2.setBounds(25,60,435,177);  
l2.setFont(new Font("Times New Roman",Font.BOLD,20));  
l2.setForeground(Color.YELLOW);
```

```
l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));  
f.add(l2);
```

```
l3=new JLabel("SEARCH USER");  
l3.setBounds(0,0,435,30);  
l3.setFont(new Font("Times New Roman",Font.BOLD,20));  
l3.setForeground(Color.WHITE);
```

```
l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));  
l2.add(l3);
```

```
l4=new JLabel("ID NUMBER:");  
l4.setBounds(70,60,125,30);  
l4.setFont(new Font("Times New Roman",Font.BOLD,20));  
l4.setForeground(Color.WHITE);  
l2.add(l4);
```

```
t=new JTextField();  
t.setBounds(200,60,175,30);  
t.setFont(new Font("Times New Roman",Font.BOLD,20));  
t.setForeground(Color.BLACK);  
l2.add(t);
```

```
b1=new JButton("SUBMIT");  
b1.setBounds(200,105,85,25);  
b1.setFont(new Font("Times New Roman",Font.BOLD,13));  
b1.setForeground(Color.YELLOW);  
b1.setBackground(Color.GRAY);  
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));  
b1.addActionListener(this);  
l2.add(b1);
```

```
b2=new JButton("BACK");  
b2.setBounds(290,105,85,25);  
b2.setFont(new Font("Times New Roman",Font.BOLD,13));  
b2.setForeground(Color.YELLOW);
```

```

        b2.setBackground(Color.GRAY);
        b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b2.addActionListener(this);
        l2.add(b2);

        f.setVisible(true);
    }
    public static void main(String args[])
    {
        new Search_Page();
    }
    public void actionPerformed(ActionEvent e)
    {
        if(e.getSource()==b1)
        {
            try
            {
                Main c1=new Main();
                String str="select * from municipal_data where id
= '"+t.getText()+"'";
                ResultSet rs=c1.s.executeQuery(str);
                if(rs.next())
                {
                    new Update_Page(t.getText());
                    f.dispose();
                }
                else
                {
                    JOptionPane
.showMessageDialog(null,"Invalid Login");
                    t.setText("");
                }
            }
            catch(Exception e1)
            {
                e1.printStackTrace();
            }
        }
        else
        {
            new Menu_Page();
            f.dispose();
        }
    }
}

```

Update_Page.java

```
/*
*Update_Page.java - To update user details present in the database.
*Author: Rahul Kumar Jha,
*Regd. No.-1941012186
*Section- C.S.E.-'C'
*Date Of Editing- 14 February, 2021
*/
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import javax.swing.BorderFactory;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JRadioButton;
import javax.swing.JTextField;
public class Update_Page implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11;
    JTextField t1,t2,t3,t4;
    JRadioButton r1,r2,r3,r4,r5;
    JComboBox day,month,year,day2,month2,year2;
    JButton b1,b2;
    String s1,s2,s3="",s4,s5,s6="",s7,s8,s9;
    Update_Page(String id)
    {
        f=new JFrame(" Update Details ");
        f.setResizable(false);
        f.setLayout(null);
        f.setSize(800,600);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setLocationRelativeTo(null);
        f.getContentPane().setBackground(Color.DARK_GRAY);
    }
}
```

```

l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM");
l1.setBounds(20,0,740,100);
l1.setFont(new Font("Times New Roman",Font.BOLD,34));
l1.setForeground(Color.YELLOW);
f.add(l1);

l2=new JLabel();
l2.setBounds(40,100,700,425);
l2.setFont(new Font("Times New Roman",Font.BOLD,20));
l2.setForeground(Color.YELLOW);

l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
f.add(l2);

l3=new JLabel(" UPDATE DETAILS ");
l3.setBounds(0,0,700,75);
l3.setFont(new Font("Times New Roman",Font.BOLD,30));
l3.setForeground(Color.WHITE);

l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
l2.add(l3);

l11=new JLabel(" I.D. No. : "+id);
l11.setBounds(450,0,700,75);
l11.setFont(new Font("Times New Roman",Font.BOLD,30));
l11.setForeground(Color.WHITE);
l2.add(l11);

try
{
    Main c1=new Main();
    String str="select * from municipal_data where id =
    '"+id+"'";

    ResultSet rs=c1.s.executeQuery(str);
    if(rs.next())
    {
        s1=rs.getString("id");
        s2=rs.getString("username");
        s3=rs.getString("gender");
        s4=rs.getString("dob");
        s5=rs.getString("occupation");
        s6=rs.getString("family");
        s7=rs.getString("address");
        s8=rs.getString("dod");
        s9=rs.getString("status");
    }
}

```

```

l4=new JLabel("Name:");
l4.setBounds(100,100,80,25);
l4.setFont(new Font("Times New
Roman",Font.BOLD,20));
l4.setForeground(Color.WHITE);
l2.add(l4);

t1=new JTextField(s2);
t1.setBounds(275,100,300,25);
t1.setFont(new Font("Times New
Roman",Font.PLAIN,20));
t1.setForeground(Color.WHITE);
t1.setForeground(Color.BLACK);
l2.add(t1);

l=new JLabel("Gender:");
l.setBounds(100,135,95,25);
l.setFont(new Font("Times New
Roman",Font.BOLD,20));
l.setForeground(Color.WHITE);
l2.add(l);

ButtonGroup g1=new ButtonGroup();
r1=new JRadioButton("Male");
r2=new JRadioButton("Female");
r3=new JRadioButton("Others");
r1.setBounds(275,135,75,25);
r2.setBounds(360,135,75,25);
r3.setBounds(445,135,75,25);
if(s3.equals("Male"))
    r1.setSelected(true);
else if(s3.equals("Female"))
    r2.setSelected(true);
else if(s3.equals("Others"))
    r3.setSelected(true);
g1.add(r1);
g1.add(r2);
g1.add(r3);
l2.add(r1);
l2.add(r2);
l2.add(r3);

l5=new JLabel("Date Of Birth:");
l5.setBounds(100,170,160,25);

```

```

l5.setFont(new Font("Times New
Roman",Font.BOLD,20));
l5.setForeground(Color.WHITE);
l2.add(l5);

String d[]=new String[31];
for(int i=0,j=1;i<31;i++,j++)
    d[i]=j+"";
String m[]=
{"January","February","March","April","May","June","July","August","Se
ptember","October","November","December"};
String y[]=new String[121];
for(int i=0,j=1901;i<121;i++,j++)
    y[i]=j+"";
day=new JComboBox(d);
month=new JComboBox(m);
year=new JComboBox(y);
day.setBounds(275,170,50,25);
month.setBounds(335,170,100,25);
year.setBounds(445,170,65,25);
l2.add(day);
l2.add(month);
l2.add(year);
String str1[]=s4.split(" ");
day.setSelectedItem(str1[0]);
month.setSelectedItem(str1[1]);
year.setSelectedItem(str1[2]);

l6=new JLabel("Occupation:");
l6.setBounds(100,205,140,25);
l6.setFont(new Font("Times New
Roman",Font.BOLD,20));
l6.setForeground(Color.WHITE);
l2.add(l6);

t2=new JTextField(s5);
t2.setBounds(275,205,300,25);
t2.setFont(new Font("Times New
Roman",Font.PLAIN,20));
t2.setForeground(Color.WHITE);
t2.setForeground(Color.BLACK);
l2.add(t2);

l7=new JLabel("Family Type:");
l7.setBounds(100,240,150,25);

```

```

l7.setFont(new Font("Times New
Roman",Font.BOLD,20));
l7.setForeground(Color.WHITE);
l2.add(l7);

ButtonGroup g2=new ButtonGroup();
r4=new JRadioButton("Single");
r5=new JRadioButton("Joint");
r4.setBounds(275,240,75,25);
r5.setBounds(360,240,75,25);
if(s6.equals("Single"))
    r4.setSelected(true);
else if(s6.equals("Joint"))
    r5.setSelected(true);
g2.add(r4);
g2.add(r5);
l2.add(r4);
l2.add(r5);

l8=new JLabel("Address:");
l8.setBounds(100,275,105,25);
l8.setFont(new Font("Times New
Roman",Font.BOLD,20));
l8.setForeground(Color.WHITE);
l2.add(l8);

t3=new JTextField(s7);
t3.setBounds(275,275,300,25);
t3.setFont(new Font("Times New
Roman",Font.PLAIN,20));
t3.setForeground(Color.WHITE);
t3.setForeground(Color.BLACK);
l2.add(t3);

if(s9.equals("Dead"))
{
    l9=new JLabel("Date Of Death:");
    l9.setBounds(100,305,160,25);
    l9.setFont(new Font("Times New
Roman",Font.BOLD,20));
    l9.setForeground(Color.WHITE);
    l2.add(l9);

    day2=new JComboBox(d);
    month2=new JComboBox(m);

```

```

        year2=new JComboBox(y);
        day2.setBounds(275,305,50,25);
        month2.setBounds(335,305,100,25);
        year2.setBounds(445,305,65,25);
        l2.add(day2);
        l2.add(month2);
        l2.add(year2);
        String str2[]=s8.split(" ");
        day2.setSelectedItem(str2[0]);
        month2.setSelectedItem(str2[1]);
        year2.setSelectedItem(str2[2]);

        l10=new JLabel("Place Of Death:");
        l10.setBounds(100,335,160,25);
        l10.setFont(new Font("Times New
Roman",Font.BOLD,20));

        l10.setForeground(Color.WHITE);
        l2.add(l10);

        t4=new JTextField(s7);
        t4.setBounds(275,335,300,25);
        t4.setFont(new Font("Times New
Roman",Font.PLAIN,20));

        t4.setForeground(Color.WHITE);
        t4.setForeground(Color.BLACK);
        l2.add(t4);
    }

    b1=new JButton("SUBMIT");
    b1.setBounds(290,375,120,25);
    b1.setFont(new Font("Times New
Roman",Font.BOLD,20));
    b1.setForeground(Color.YELLOW);
    b1.setBackground(Color.GRAY);
    b1.setCursor(new
Cursor(Cursor.HAND_CURSOR));
    b1.addActionListener(this);
    l2.add(b1);

    b2=new JButton("BACK");
    b2.setBounds(440,375,120,25);
    b2.setFont(new Font("Times New
Roman",Font.BOLD,20));
    b2.setForeground(Color.YELLOW);
    b2.setBackground(Color.GRAY);

```



```

        b2.setCursor(new
Cursor(Cursor.HAND_CURSOR));
        b2.addActionListener(this);
        l2.add(b2);

        f.setVisible(true);
    }
    else
    {
        JOptionPane.showMessageDialog(null,"Invalid
Response");
    }
}
catch(Exception e)
{
    e.printStackTrace();
}
}
public void actionPerformed(ActionEvent e)
{
    if(e.getSource()==b1)
    {
        String name=t1.getText();
        if((name.trim()).equals(""))
            JOptionPane.showMessageDialog(null,"Name Is
Empty");
        else
        {
            String gender="";
            if(r1.isSelected())
                gender="Male";
            else if(r2.isSelected())
                gender="Female";
            else if(r3.isSelected())
                gender="Others";
            String dob=day.getSelectedItemAt()+"
"+month.getSelectedItemAt()+" "+year.getSelectedItemAt();
            String occupation=t2.getText();
            if((occupation.trim()).equals(""))

                JOptionPane.showMessageDialog(null,"Occupation Is Empty");
            else
            {
                String family="";
                if(r4.isSelected())

```

```

        family="Single";
    else if(r5.isSelected())
        family="Joint";
    String address=t3.getText();
    if((address.trim()).equals(""))

        JOptionPane.showMessageDialog(null,"Occupation Is Empty");
    else
    {
        try
        {
            Main c2=new Main();
            String str2;
            if(s9.equals("Dead"))
                str2="update

municipal_data set
username='"+name+"',gender='"+gender+"',dob='"+dob+"',occupation='"+
occupation+"',family='"+family+"',address='"+address+"',dod='"+day2.get
SelectedItem()+" "+month2.getSelectedItem()+"
"+year2.getSelectedItem()+" where id='"+s1+"'";
            else
                str2="update

municipal_data set
username='"+name+"',gender='"+gender+"',dob='"+dob+"',occupation='"+
occupation+"',family='"+family+"',address='"+address+" where
id='"+s1+"'";

            c2.s.executeUpdate(str2);
            c2.s.executeUpdate(str2);

            JOptionPane.showMessageDialog(null,"Updation Sucessful, ID No.:
"+s1);

            new Search_Page();
            f.dispose();
        }
        catch(Exception e1)
        {
            e1.printStackTrace();
        }
    }
}

}
else
{

```

```

        new Search_Page();
        f.dispose();
    }
}
public static void main(String[] args)
{
    new Update_Page(null);
}
}

```

View_DataBase.java

```

/*
*View_DataBase.java - To view all the database details including table
both the table details and download a nicely formed text file of details.
*Author: Rahul Kumar Jha,
*Regd. No.-1941012186
*Section- C.S.E.-'C'
*Date Of Editing- 14 February, 2021
*/
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileWriter;
import java.sql.ResultSet;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JScrollPane;
import javax.swing.JTable;
public class View_DataBase implements ActionListener
{
    JFrame f;
    JLabel l1;
    JButton b1,b2,b3,b4;
    JScrollPane sp;
    JTable t;
    View_DataBase()
    {
        f=new JFrame("View DataBase");
        f.setSize(900,600);
    }
}

```

```
f.setLocationRelativeTo(null);  
f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
f.setLayout(null);  
f.getContentPane().setBackground(Color.DARK_GRAY);  
f.setResizable(false);
```

```
l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM ");  
l1.setBounds(20,0,840,100);  
l1.setFont(new Font("Times New Roman",Font.BOLD,38));  
l1.setForeground(Color.YELLOW);  
f.add(l1);
```

```
b1=new JButton("ADMIN DATABASE");  
b1.setBounds(150,125,275,35);  
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));  
b1.setFont(new Font("Times New Roman",Font.BOLD,20));  
b1.setForeground(Color.YELLOW);  
b1.setBackground(Color.GRAY);  
b1.addActionListener(this);  
f.add(b1);
```

```
b2=new JButton("MUNICIPAL DATABASE");  
b2.setBounds(450,125,275,35);  
b2.setCursor(new Cursor(Cursor.HAND_CURSOR));  
b2.setFont(new Font("Times New Roman",Font.BOLD,20));  
b2.setForeground(Color.YELLOW);  
b2.setBackground(Color.GRAY);  
b2.addActionListener(this);  
f.add(b2);
```

```
b3=new JButton("PRINT");  
b3.setBounds(150,505,275,35);  
b3.setCursor(new Cursor(Cursor.HAND_CURSOR));  
b3.setFont(new Font("Times New Roman",Font.BOLD,20));  
b3.setForeground(Color.YELLOW);  
b3.setBackground(Color.GRAY);  
b3.addActionListener(this);  
f.add(b3);
```

```
b4=new JButton("BACK");  
b4.setBounds(450,505,275,35);  
b4.setCursor(new Cursor(Cursor.HAND_CURSOR));  
b4.setFont(new Font("Times New Roman",Font.BOLD,20));  
b4.setForeground(Color.YELLOW);  
b4.setBackground(Color.GRAY);
```

```

        b4.addActionListener(this);
        f.add(b4);

        sp=new JScrollPane();
        sp.getViewPort().setBackground(Color.BLACK);
        sp.setBounds(20,185,840,300);
        f.add(sp);

        f.setVisible(true);
    }
    public static void main(String[] args)
    {
        new View_DataBase();
    }
    public void actionPerformed(ActionEvent e)
    {
        if(e.getSource()==b2)
        {
            try
            {
                Main c1=new Main();
                String str1="select count(*) from
municipal_data";

                ResultSet rs1=c1.s.executeQuery(str1);
                int row=0;
                if(rs1.next())

                row=Integer.parseInt(rs1.getString("count(*)"));
                String
columnName[]={"ID","Name","Gender","D.O.B.","Occupation","Family","
Address","D.O.D.","Status","Place"};
                String data[][]=new String[row][10];
                String str2="select * from municipal_data";
                ResultSet rs2=c1.s.executeQuery(str2);
                int i=0;
                while(rs2.next())
                {
                    data[i][0]=rs2.getString("id");
                    data[i][1]=rs2.getString("username");
                    data[i][2]=rs2.getString("gender");
                    data[i][3]=rs2.getString("dob");
                    data[i][4]=rs2.getString("occupation");
                    data[i][5]=rs2.getString("family");
                    data[i][6]=rs2.getString("address");
                    data[i][7]=rs2.getString("dod");

```

```

        data[i][8]=rs2.getString("status");
        data[i][9]=rs2.getString("place");
        i=i+1;
    }
    t=new JTable(data,columnName)
    {
        private static final long serialVersionUID =
1L;
        public boolean isCellEditable(int row,int
column)
        {
            return(false);
        }
    };
    t.setBackground(Color.WHITE);
    sp.setVisible(false);
    sp=new JScrollPane(t);
    sp.setBounds(20,185,840,300);
    f.add(sp);
}
catch(Exception e1)
{
    e1.printStackTrace();
}
}
else if(e.getSource()==b1)
{
    try
    {
        Main c1=new Main();
        String str1="select count(*) from login_table";
        ResultSet rs1=c1.s.executeQuery(str1);
        int row=0;
        if(rs1.next())

row=Integer.parseInt(rs1.getString("count(*)"));
        String columnName[]{"Username","Password"};
        String data[][]=new String[row][2];
        String str2="select * from login_table";
        ResultSet rs2=c1.s.executeQuery(str2);
        int i=0;
        while(rs2.next())
        {
            data[i][0]=rs2.getString("username");
            data[i][1]=rs2.getString("password");

```

```

        i=i+1;
    }
    t=new JTable(data,columnName)
    {
        private static final long serialVersionUID =
1L;
        public boolean isCellEditable(int row,int
column)
        {
            return(false);
        }
    };
    t.setBackground(Color.WHITE);
    sp.setVisible(false);
    sp=new JScrollPane(t);
    sp.setBounds(20,185,840,300);
    f.add(sp);
}
catch(Exception e1)
{
    e1.printStackTrace();
}
}
else if(e.getSource()==b3)
{
    if(t==null)
        JOptionPane.showMessageDialog(null,"Cannot
Export");
    else
    {
        if(t.getColumnCount()==2)
        {
            File f1=new File("C:\\Users\\Rahul
Jha\\Desktop\\Admin_DataBase.txt");
            try
            {
                FileWriter fw=new
FileWriter(f1.getAbsolutePath());
                BufferedWriter bw=new
BufferedWriter(fw);

                for(int i=0;i<t.getRowCount();i++)
                {
                    for(int j=0;j<t.getColumnCount();j++)
                    {

```

```

        bw.write((String)(t.getModel().getValueAt(i,j)+" "));
    }

    bw.write("\n_____ \n");
    }
    bw.close();
    fw.close();

    JOptionPane.showMessageDialog(null,"Data Exported To
Desktop");
    }
    catch(Exception e2)
    {
        e2.printStackTrace();
    }
}
else
{
    File f2=new File("C:\\Users\\Rahul
Jha\\Desktop\\Municipal_DataBase.txt");
    try
    {
        FileWriter fw=new
FileWriter(f2.getAbsoluteFile());
        BufferedWriter bw=new
BufferedWriter(fw);

        for(int i=0;i<t.getRowCount();i++)
        {
            for(int j=0;j<t.getColumnCount();j++)
            {

                bw.write((String)(t.getModel().getValueAt(i,j)+" "));
            }

            bw.write("\n_____ \n");
            }
            bw.close();
            fw.close();

            JOptionPane.showMessageDialog(null,"Data Exported To
Desktop");
        }
        catch(Exception e2)

```



```

        {
            e2.printStackTrace();
        }
    }
}
else
{
    new Menu_Page();
    f.dispose();
}
}
}

```

User_Login.java

```

/*
 *User_Login.java - It is a login page for user where login credentials to be
verified with (Unique ID and Date of Birth).
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
public class User_Login implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5;
    JTextField t;
    JComboBox day,month,year;
    JButton b1,b2;
    int c=0;
    User_Login(int c)

```

```

{
    this.c=c;

    f=new JFrame("User Login");
    f.setSize(600,400);
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    f.setResizable(false);
    f.setLayout(null);
    f.setLocationRelativeTo(null);
    f.getContentPane().setBackground(Color.DARK_GRAY);

    l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM ");
    l1.setBounds(10,0,600,100);
    l1.setFont(new Font("Times New Roman",Font.BOLD,26));
    l1.setForeground(Color.YELLOW);
    f.add(l1);

    l2=new JLabel();
    l2.setBounds(40,100,500,225);
    l2.setFont(new Font("Times New Roman",Font.BOLD,20));
    l2.setForeground(Color.YELLOW);

    l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
    f.add(l2);

    l3=new JLabel(" USER LOGIN ");
    l3.setBounds(0,0,500,50);
    l3.setFont(new Font("Times New Roman",Font.BOLD,25));
    l3.setForeground(Color.WHITE);

    l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
    l2.add(l3);

    l4=new JLabel("ID NUMBER:");
    l4.setBounds(50,80,125,30);
    l4.setFont(new Font("Times New Roman",Font.BOLD,20));
    l4.setForeground(Color.WHITE);
    l2.add(l4);

    l5=new JLabel("DATE OF BIRTH:");
    l5.setBounds(50,120,160,30);
    l5.setFont(new Font("Times New Roman",Font.BOLD,20));
    l5.setForeground(Color.WHITE);
    l2.add(l5);

```

```

t=new JTextField();
t.setBounds(225,80,205,30);
t.setFont(new Font("Times New Roman",Font.BOLD,15));
t.setForeground(Color.BLACK);
t.setBackground(Color.WHITE);
l2.add(t);

String d[]=new String[31];
for(int i=0,j=1;i<31;i++,j++)
    d[i]=j+"";
String m[]=
{"January","February","March","April","May","June","July","August","Se
ptember","October","November","December"};
String y[]=new String[121];
for(int i=0,j=1901;i<121;i++,j++)
    y[i]=j+"";
day=new JComboBox(d);
month=new JComboBox(m);
year=new JComboBox(y);
day.setBounds(225,120,40,30);
month.setBounds(270,120,90,30);
year.setBounds(365,120,65,30);
l2.add(day);
l2.add(month);
l2.add(year);

b1=new JButton("SUBMIT");
b1.setBounds(225,170,100,25);
b1.setFont(new Font("Times New Roman",Font.BOLD,15));
b1.setForeground(Color.YELLOW);
b1.setBackground(Color.GRAY);
b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
b1.addActionListener(this);
l2.add(b1);

b2=new JButton("BACK");
b2.setBounds(330,170,100,25);
b2.setFont(new Font("Times New Roman",Font.BOLD,15));
b2.setForeground(Color.YELLOW);
b2.setBackground(Color.GRAY);
b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
b2.addActionListener(this);
l2.add(b2);

f.setVisible(true);

```

```

    }
    public void actionPerformed(ActionEvent e)
    {
        if(e.getSource()==b1)
        {
            String username=t.getText().trim();
            if(username.equals(""))
                JOptionPane.showMessageDialog(null,"ID
NUMBER is Empty");
            else
            {
                try
                {
                    Main c1=new Main();
                    String str="select * from municipal_data
where id='"+t.getText()+"' and dob='"+day.getSelectedItemAt()+"
"+month.getSelectedItemAt()+" "+year.getSelectedItemAt()+"'";
                    ResultSet rs=c1.s.executeQuery(str);
                    if(rs.next())
                    {
                        new User_Details(t.getText(),c);
                        f.dispose();
                    }
                    else
                    {
                        JOptionPane
.showMessageDialog(null,"Invalid Login");
                        t.setText("");
                    }
                }
                catch(Exception e1)
                {
                    e1.printStackTrace();
                }
            }
        }
        else
        {
            if(c==0)
            {
                new Welcome_Page(1);
                f.dispose();
            }
            else
            {

```

```

        new Menu_Page();
        f.dispose();
    }
}

public static void main(String[] args)
{
    new User_Login(0);
}
}

```

User_Details.java

```

/*
 *User_Details.java - To fetch and display all the details of the database of
the particular person from the database.
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.ResultSet;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JRadioButton;
import javax.swing.JTextField;

public class User_Details implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5,l6,l7,l8,l9,l10,l11,l12,l13,l14,l15,l16,l17,l18,l19,l;
    JButton b1,b2;
    JRadioButton r1,r2,r3,r4,r5;
    String s1,s2,s3,s4,s5,s6,s7,s8,s9,s10;
    JTextField t1,t2,t3;
    int c;
    User_Details(String id,int c)
    {

```

```

this.c=c;

f=new JFrame(" View Details ");
f.setResizable(false);
f.setLayout(null);
f.setSize(800,600);
f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
f.setLocationRelativeTo(null);
f.getContentPane().setBackground(Color.DARK_GRAY);

l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM");
l1.setBounds(20,0,740,100);
l1.setFont(new Font("Times New Roman",Font.BOLD,34));
l1.setForeground(Color.YELLOW);
f.add(l1);

l2=new JLabel();
l2.setBounds(40,100,700,425);
l2.setFont(new Font("Times New Roman",Font.BOLD,20));
l2.setForeground(Color.YELLOW);

l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
f.add(l2);

l3=new JLabel(" VIEW DETAILS ");
l3.setBounds(0,0,700,75);
l3.setFont(new Font("Times New Roman",Font.BOLD,30));
l3.setForeground(Color.WHITE);

l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));
l2.add(l3);

try
{
    Main c1=new Main();
    String str="select * from municipal_data where id =
"+id+"";

    ResultSet rs=c1.s.executeQuery(str);
    if(rs.next())
    {
        s1=rs.getString("id");
        s2=rs.getString("username");
        s3=rs.getString("gender");
        s4=rs.getString("dob");
        s5=rs.getString("occupation");
    }
}

```

```
s6=rs.getString("family");  
s7=rs.getString("address");  
s8=rs.getString("dod");  
s9=rs.getString("status");  
s10=rs.getString("place");
```

```
l3=new JLabel(" I.D. No. : "+s1);  
l3.setBounds(450,0,700,75);  
l3.setFont(new Font("Times New  
Roman",Font.BOLD,30));  
l3.setForeground(Color.WHITE);  
l2.add(l3);
```

```
l4=new JLabel("Name:");  
l4.setBounds(185,100,80,25);  
l4.setFont(new Font("Times New  
Roman",Font.BOLD,20));  
l4.setForeground(Color.WHITE);  
l2.add(l4);
```

```
l5=new JLabel(s2);  
l5.setBounds(360,100,300,25);  
l5.setFont(new Font("Times New  
Roman",Font.BOLD,20));  
l5.setForeground(Color.WHITE);  
l2.add(l5);
```

```
l6=new JLabel("Gender:");  
l6.setBounds(185,135,95,25);  
l6.setFont(new Font("Times New  
Roman",Font.BOLD,20));  
l6.setForeground(Color.WHITE);  
l2.add(l6);
```

```
l7=new JLabel(s3);  
l7.setBounds(360,135,300,25);  
l7.setFont(new Font("Times New  
Roman",Font.BOLD,20));  
l7.setForeground(Color.WHITE);  
l2.add(l7);
```

```
l8=new JLabel("Date Of Birth:");  
l8.setBounds(185,170,160,25);  
l8.setFont(new Font("Times New
```

```

Roman",Font.BOLD,20));
        l8.setForeground(Color.WHITE);
        l2.add(l8);

        l9=new JLabel(s4);
        l9.setBounds(360,170,300,25);
        l9.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l9.setForeground(Color.WHITE);
        l2.add(l9);

        l10=new JLabel("Occupation:");
        l10.setBounds(185,205,140,25);
        l10.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l10.setForeground(Color.WHITE);
        l2.add(l10);

        l11=new JLabel(s5);
        l11.setBounds(360,205,300,25);
        l11.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l11.setForeground(Color.WHITE);
        l2.add(l11);

        l12=new JLabel("Family Type:");
        l12.setBounds(185,240,150,25);
        l12.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l12.setForeground(Color.WHITE);
        l2.add(l12);

        l13=new JLabel(s6);
        l13.setBounds(360,240,300,25);
        l13.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l13.setForeground(Color.WHITE);
        l2.add(l13);

        l14=new JLabel("Address:");
        l14.setBounds(185,275,105,25);
        l14.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l14.setForeground(Color.WHITE);
        l2.add(l14);

```



```

        l15=new JLabel(s7);
        l15.setBounds(360,275,300,25);
        l15.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l15.setForeground(Color.WHITE);
        l2.add(l15);

        if(s9.equals("Dead"))
        {
            l16=new JLabel("Date Of Death:");
            l16.setBounds(185,310,160,25);
            l16.setFont(new Font("Times New
Roman",Font.BOLD,20));
            l16.setForeground(Color.WHITE);
            l2.add(l16);

            l17=new JLabel(s8);
            l17.setBounds(360,310,300,25);
            l17.setFont(new Font("Times New
Roman",Font.BOLD,20));
            l17.setForeground(Color.WHITE);
            l2.add(l17);

            l18=new JLabel("Place Of Death:");
            l18.setBounds(185,340,160,25);
            l18.setFont(new Font("Times New
Roman",Font.BOLD,20));
            l18.setForeground(Color.WHITE);
            l2.add(l18);

            l19=new JLabel(s10);
            l19.setBounds(360,340,300,25);
            l19.setFont(new Font("Times New
Roman",Font.BOLD,20));
            l19.setForeground(Color.WHITE);
            l2.add(l19);
        }

        b1=new JButton("DOWNLOAD");
        b1.setBounds(150,375,175,25);
        b1.setFont(new Font("Times New
Roman",Font.BOLD,20));
        b1.setForeground(Color.YELLOW);

```

```

        b1.setBackground(Color.GRAY);
        b1.setCursor(new
Cursor(Cursor.HAND_CURSOR));
        b1.addActionListener(this);
        l2.add(b1);

        if(s9.equals("Alive"))
            b1.setVisible(false);

        b2=new JButton("BACK");
        b2.setBounds(360,375,175,25);
        b2.setFont(new Font("Times New
Roman",Font.BOLD,20));
        b2.setForeground(Color.YELLOW);
        b2.setBackground(Color.GRAY);
        b2.setCursor(new
Cursor(Cursor.HAND_CURSOR));
        b2.addActionListener(this);
        l2.add(b2);

        f.setVisible(true);
    }
    else
    {
        JOptionPane.showMessageDialog(null,"Invalid
Response");
    }
}
catch(Exception e)
{
    e.printStackTrace();
}
}
public static void main(String args[])
{
    new User_Details("",0);
}
public void actionPerformed(ActionEvent e)
{
    if(e.getSource()==b2)
    {
        new User_Login(c);
        f.dispose();
    }
    else

```

```

        {
            new Certificate(s1,s2,s3,s4,s5,s6,s7,s8,s9,s10,c);
            f.dispose();
        }
    }
}

```

Certificate.java

```

/*
 *Certificate.java - To display death certificate a person and can be
accessible to only those whose name are registered in death list.
 *Author: Rahul Kumar Jha,
 *Regd. No.-1941012186
 *Section- C.S.E.-'C'
 *Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.Graphics;
import java.awt.Graphics2D;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.print.PageFormat;
import java.awt.print.Printable;
import java.awt.print.PrinterException;
import java.awt.print.PrinterJob;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextArea;
public class Certificate implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5,l6,l7,l8;
    JPanel p;
    JButton b1,b2;
    JTextArea t1;
    int c;
    String s1;
    Certificate(String s1,String s2,String s3,String s4,String s5,String
s6,String s7,String s8,String s9,String s10,int c)

```

```

{
    this.c=c;
    this.s1=s1;

    f=new JFrame(" Certificate ");
    f.setResizable(false);
    f.setLayout(null);
    f.setSize(1000,600);
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    f.setLocationRelativeTo(null);
    f.getContentPane().setBackground(Color.DARK_GRAY);

    p=new JPanel();
    p.setLayout(null);
    p.setBounds(0,0,1000,500);
    p.setBorder(BorderFactory.createLineBorder(Color.WHITE));;
    p.setBackground(Color.BLACK);
    p.setLayout(null);
    f.add(p);

    l1=new JLabel("MUNICIPAL DATA MANAGEMENT SYSTEM");
    l1.setBounds(20,0,940,100);
    l1.setFont(new Font("Times New Roman",Font.BOLD,44));
    l1.setForeground(Color.YELLOW);
    p.add(l1);

    l2=new JLabel("DEATH CERTIFICATE");
    l2.setBounds(300,100,380,50);
    l2.setFont(new Font("Times New Roman",Font.BOLD,35));
    l2.setForeground(Color.YELLOW);
    p.add(l2);

    if((s1.trim()).equals(""))
    {
        JOptionPane.showMessageDialog(null,"Unable To
Print");
    }
    else
    {
        l3=new JLabel(" * This is to acknowledge the death of
"+s2+".");
        l3.setBounds(50,175,940,50);
        l3.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l3.setForeground(Color.WHITE);
    }
}

```

```

        p.add(l3);

        String str1[]=s8.split(" ");
        String str2[]=s4.split(" ");

        l4=new JLabel(" * On the "+str1[0]+" Day of "+str1[1]+"
in the Year "+str1[2]+".");
        l4.setBounds(50,225,940,50);
        l4.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l4.setForeground(Color.WHITE);
        p.add(l4);

        l5=new JLabel(" * At: "+s10);
        l5.setBounds(50,275,940,50);
        l5.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l5.setForeground(Color.WHITE);
        p.add(l5);

        l6=new JLabel(" * Born On the "+str2[0]+" Day of
"+str2[1]+" in the Year "+str2[2]+".");
        l6.setBounds(50,325,940,50);
        l6.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l6.setForeground(Color.WHITE);
        p.add(l6);

        l7=new JLabel(" SIGNED: RAHUL KUMAR JHA");
        l7.setBounds(600,380,300,50);
        l7.setFont(new Font("Times New
Roman",Font.BOLD,20));
        l7.setForeground(Color.WHITE);
        p.add(l7);

        b1=new JButton("PRINT");
        b1.setBounds(225,510,200,30);
        b1.setFont(new Font("Times New
Roman",Font.BOLD,20));
        b1.setForeground(Color.YELLOW);
        b1.setBackground(Color.GRAY);
        b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b1.addActionListener(this);
        f.add(b1);

```

```

        b2=new JButton("BACK");
        b2.setBounds(550,510,200,30);
        b2.setFont(new Font("Times New
Roman",Font.BOLD,20));
        b2.setForeground(Color.YELLOW);
        b2.setBackground(Color.GRAY);
        b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b2.addActionListener(this);
        f.add(b2);

        f.setVisible(true);
    }
}
public static void main(String[] args)
{
    new Certificate("", "", "", "", "", "", "", "", "", "", 0);
}
public void actionPerformed(ActionEvent e)
{
    if(e.getSource()==b1)
    {
        PrinterJob pj=PrinterJob.getPrinterJob();
        pj.setJobName("Print Data");
        pj.setPrintable(new Printable() {
            public int print(Graphics graphics,PageFormat
pageFormat,int pageIndex)throws PrinterException
            {
                if(pageIndex>0)
                    return(Printable.NO_SUCH_PAGE);
                Graphics2D g2D=(Graphics2D)graphics;
                g2D.scale(0.62,1);
                p.print(g2D);
                return(Printable.PAGE_EXISTS);
            }
        });
        if(pj.printDialog())
        {
            try
            {
                pj.print();
            }
            catch(Exception e1)
            {
                e1.getMessage();
            }
        }
    }
}

```

```

        }
    }
    else
    {
        new User_Details(s1,c);
        f.dispose();
    }
}
}

```

Add_Admin.java

```

/*
 * Add_Admin.java - To add admin user to the the database.
 * Author: Rahul Kumar Jha,
 * Regd. No.-1941012186
 * Section- C.S.E.-'C'
 * Date Of Editing- 14 February, 2021
 */
import java.awt.Color;
import java.awt.Cursor;
import java.awt.Font;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.BorderFactory;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPasswordField;
import javax.swing.JTextField;
public class Add_Admin implements ActionListener
{
    JFrame f;
    JLabel l1,l2,l3,l4,l5;
    JTextField t;
    JPasswordField p;
    JButton b1,b2;
    Add_Admin()
    {
        f=new JFrame("Add Admin");
        f.setSize(600,400);
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setResizable(false);
        f.setLayout(null);
        f.setLocationRelativeTo(null);
    }
}

```

```
f.getContentPane().setBackground(Color.DARK_GRAY);
```

```
l1=new JLabel(" MUNICIPAL DATA MANAGEMENT SYSTEM ");  
l1.setBounds(20,0,600,100);  
l1.setFont(new Font("Times New Roman",Font.BOLD,26));  
l1.setForeground(Color.YELLOW);  
f.add(l1);
```

```
l2=new JLabel();  
l2.setBounds(40,100,500,225);  
l2.setFont(new Font("Times New Roman",Font.BOLD,20));  
l2.setForeground(Color.YELLOW);
```

```
l2.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));  
f.add(l2);
```

```
l3=new JLabel(" REGISTER ADMIN ");  
l3.setBounds(0,0,500,50);  
l3.setFont(new Font("Times New Roman",Font.BOLD,25));  
l3.setForeground(Color.WHITE);
```

```
l3.setBorder(BorderFactory.createLineBorder(Color.YELLOW,3));  
l2.add(l3);
```

```
l4=new JLabel("USERNAME:");  
l4.setBounds(85,80,125,30);  
l4.setFont(new Font("Times New Roman",Font.BOLD,20));  
l4.setForeground(Color.WHITE);  
l2.add(l4);
```

```
l5=new JLabel("PASSWORD:");  
l5.setBounds(85,120,125,30);  
l5.setFont(new Font("Times New Roman",Font.BOLD,20));  
l5.setForeground(Color.WHITE);  
l2.add(l5);
```

```
t=new JTextField();  
t.setBounds(225,80,205,30);  
t.setFont(new Font("Times New Roman",Font.BOLD,15));  
t.setForeground(Color.BLACK);  
t.setBackground(Color.WHITE);  
l2.add(t);
```

```
p=new JPasswordField();  
p.setBounds(225,120,205,30);
```



```

        p.setFont(new Font("Times New Roman",Font.BOLD,20));
        p.setForeground(Color.BLACK);
        p.setBackground(Color.WHITE);
        l2.add(p);

        b1=new JButton("SUBMIT");
        b1.setBounds(225,170,100,25);
        b1.setFont(new Font("Times New Roman",Font.BOLD,15));
        b1.setForeground(Color.YELLOW);
        b1.setBackground(Color.GRAY);
        b1.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b1.addActionListener(this);
        l2.add(b1);

        b2=new JButton("BACK");
        b2.setBounds(330,170,100,25);
        b2.setFont(new Font("Times New Roman",Font.BOLD,15));
        b2.setForeground(Color.YELLOW);
        b2.setBackground(Color.GRAY);
        b2.setCursor(new Cursor(Cursor.HAND_CURSOR));
        b2.addActionListener(this);
        l2.add(b2);

        f.setVisible(true);
    }
    public void actionPerformed(ActionEvent ae)
    {
        if(ae.getSource()==b1)
        {
            try
            {
                Main obj=new Main();
                String username=t.getText();
                if((username.trim()).equals(""))

                JOptionPane.showMessageDialog(null,"Username Is Empty");
            }
            else
            {
                String password=new
String(p.getPassword());
                if((password.trim()).equals(""))

                JOptionPane.showMessageDialog(null,"Password Is Empty");
            }
        }
    }
}

```

```

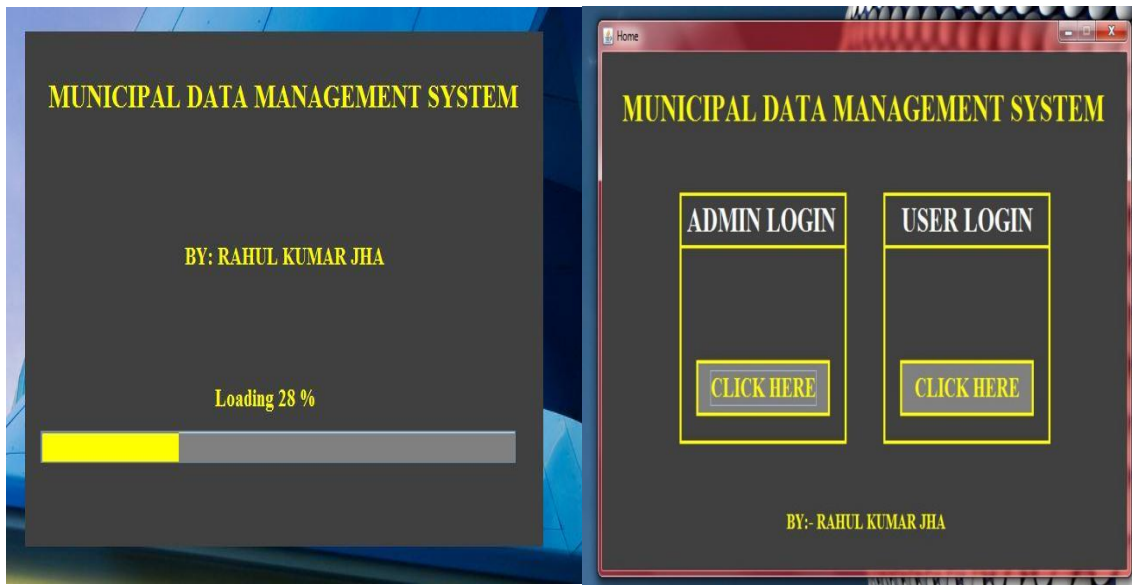
        username=username.trim();
        password=password.trim();
        String str="insert into login_table
values('"+username+"','"+password+"')";
        obj.s.executeUpdate(str);

        JOptionPane.showMessageDialog(null,"Insertation Sucessful");
        new Menu_Page();
        f.dispose();
    }
}
}
catch(Exception e)
{
    e.printStackTrace();
}
}
else
{
    new Menu_Page();
    f.dispose();
}

}
public static void main(String[] args)
{
    new Add_Admin();
}
}

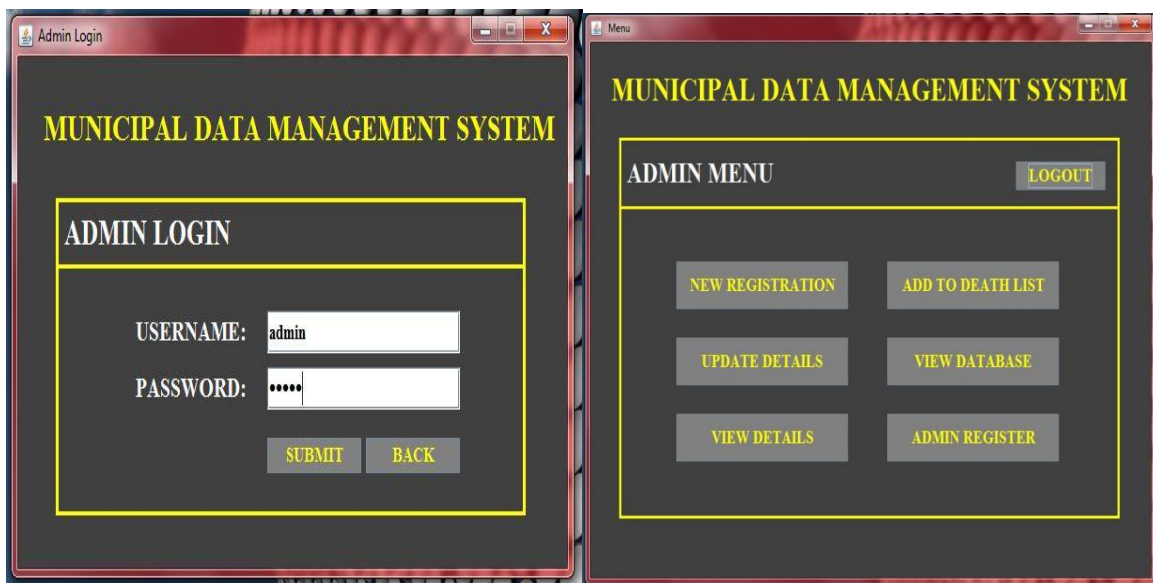
```

* Snapshot Of Input And Output



* First_Page.java

* Welcome_Page.java



* Admin_Login.java

* Menu_Page.java

MUNICIPAL DATA MANAGEMENT SYSTEM

USER REGISTRATION

Message

Insertion Successful, ID No: 10003

OK

Name:

Gender: ☒ Male ☐ Female ☐ Others

Date Of Birth:

Occupation:

Family Type: ☐ Single ☒ Joint

Address:

MUNICIPAL DATA MANAGEMENT SYSTEM

DEATH LIST REGISTRATION

Message

Insertion Successful In Death List

OK

U.I.D. No.-

Name:

Date Of Death:

Place:

* Add_User.java

* Death_Page.java

MUNICIPAL DATA MANAGEMENT SYSTEM

SEARCH USER

ID NUMBER:

MUNICIPAL DATA MANAGEMENT SYSTEM

UPDATE DETAILS

I.D. No. : 10001

Name:

Gender: ☒ Male ☐ Female ☐ Others

Date Of Birth:

Occupation:

Family Type: ☒ Single ☐ Joint

Address:

Date Of Death:

Place Of Death:

Message

Update Successful, ID No: 10001

OK

* Search_Page.java

* Update_Page.java

MUNICIPAL DATA MANAGEMENT SYSTEM

	Username	Password
	admin	admin
	admin2	admin2

MUNICIPAL DATA MANAGEMENT SYSTEM

ID	Name	Gender	D.O.B	Occupation	Family	Address	D.O.D	Status	Place
10001	Ram Kumar Jha	Male	1 January 1948	Police	Single	Jamshedpur, Jharkhand	25 August 2018	Dead	Jamshedpur, Jharkhand
10002	Rahul Kumar Jha	Male	21 July 1998	Student	Single	Jamshedpur	8 January 2020	Dead	Jamshedpur, Jharkhand
10003	Rahul Kumar Jha	Male	21 July 1998	Student	Joint	Jamshedpur, Jharkhand		Alive	

* View_DataBase.java

User Login

MUNICIPAL DATA MANAGEMENT SYSTEM

USER LOGIN

ID NUMBER: 10001

DATE OF BIRTH: 1 January 1948

SUBMIT BACK

Certificate

MUNICIPAL DATA MANAGEMENT SYSTEM

DEATH CERTIFICATE

* This is to acknowledge the death of Ram Kumar Jha.

* On the 25 Day of August in the Year 2018.

* At: Jamshedpur, Jharkhand

* Born On the 1 Day of January in the Year 1948.

SIGNED: RAHUL KUMAR JHA

PRINT BACK

* User_Login.java

* Certificate.java

View Details

MUNICIPAL DATA MANAGEMENT SYSTEM

VIEW DETAILS I.D. No. : 10001

Name: Ram Kumar Jha
Gender: Male
Date Of Birth: 1 January 1948
Occupation: Police
Family Type: Single
Address: Jamshedpur, Jharkhand
Date Of Death: 25 August 2018
Place Of Death: Jamshedpur, Jharkhand

DOWNLOAD BACK

View Details

MUNICIPAL DATA MANAGEMENT SYSTEM

VIEW DETAILS I.D. No. : 10003

Name: Rahul Kumar Jha
Gender: Male
Date Of Birth: 21 July 1998
Occupation: Student
Family Type: Joint
Address: Jamshedpur, Jharkhand

BACK

* User_Details.java



* Add_Admin.java

**To access all the .java file of program classes
'1941012186_Rahul Kumar Jha_C.S.E.-C.zip' file is attached.**
