

**JAVA SWING BASED – COURT MANAGEMENT
SYSTEM - SQL CONNECTIVITY USING JDBC**

A

Report

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Requirements for the award of the Degree of
BACHELOR OF TECHNOLOGY
IN*

INFORMATION TECHNOLOGY

By

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BONAFIDE CERTIFICATE

This to Certify that the project report titled
“COURT MANAGEMENT SYSTEM”
project work of Mr.APPALI KRISHNA
CHAITANYA bearing Roll.no:1602-19-737-
308 who carried out this project under my
supervision in the IV semester for the academic
year 2020-2021.

Signature
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Court Management System

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ABSTRACT:-

The Court Management System is a Design framework for computerizing the legal administrations in India. Utilizing this framework, offended party can without much of a stretch offer grievance to the concerned expert and they can see status of their cases and so forth. This framework will decrease the time and hazard to the clients contrast and manual framework. The undertaking performs expected capacity with required accuracy. Considering the current scenario (pandemic situation) this app is very much useful for different sections of people and a lot of physical process has been reduced.

REQUIREMENT ANALYSIS

List of tables:

- Client
- Advocate
- Types
- Court
- Slot
- Booking
- Selects
- Has
- Has_Timings

List of attributes with their domain type:-

Client:

Id of the client: client_id - number
Name of the client: client_name - varchar2(20)
Password: client_pass - varchar2(20)

Advocate:

Id of the advocate: advocate_id - number
Name of the advocate: advocate_name - varchar2(20)
Rating of the advocate: advocate_rating - varchar2(20)

Types:

Type of advocate: advocate_type - varchar2(20)
Experience: experience – number
Advocate type id: advocate_type_id - varchar2(20)

Court:

Pincode: pincode - number
State name: state_name - varchar2(20)
City name: city_name - varchar2(20)

Slot:

Id of the slot: slot_id – varchar2(20)
Starting date: from_date - varchar2(10)
Approximate duration: tentative_years - number
Name of the judge: judge_name - varchar2(20)

THROUGH THE PROJECT:

This project helps everyone to easily select advocate without going out from home. Selection is also made easy by giving experience and rating to each advocate. This project also tells the user tentative period of much long their case might take. In the period of digitalization where everything can be done from home this project helps in reduction of a lot of work for the individuals.

ARCHITECTURE AND TECHNOLOGY USED:

SOFTWARE USED:

Java Eclipse, Oracle 11g Database, Java SE version 8, SQL Plus.

Java SWING:

Swing is a GUI widget toolkit for Java. It is part of Oracle's Java Foundation Classes (JFC) – an API for providing a graphical user interface (GUI) for Java programs.

Swing was developed to provide a more sophisticated set of GUI components than the earlier AWT. Swing provides a look and feel that emulates the look and feel of several platforms, and also supports a pluggable look and feel that allows applications to have a look and feel unrelated to the underlying platform. It has more powerful and flexible components than AWT. In addition to familiar components such as buttons, check boxes and labels, Swing provides several advanced components such as tabbed panel, scroll panes, trees, tables, and lists.

SQL:

Structure Query Language (SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's **Relational** model of database. Today almost all RDBMS (MySql, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

Java-SQL Connectivity using JDBC:

Java Database Connectivity (JDBC) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
try
{
    Class.forName("oracle.jdbc.driver.OracleDriver");
}
catch(Exception e)
{
    System.err.println("Unable to find and load driver");
    System.exit(1);
}

public void connectToDB()
{
    try
    {
        connection =
        DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","chaitanya","vas
        avi");
        statement = connection.createStatement();
    }
    catch(SQLException connectException)
    {


```


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```
        System.out.println(connectException.getMessage());  
  
        System.out.println(connectException.getSQLState());  
  
        System.out.println(connectException.getErrorCode());  
  
        System.exit(1);  
    }  
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

Table Created in SQL for above mentioned purpose is as:

 Run SQL Command Line

```
SQL> create table client(client_id number primary key,client_name varchar2(20),client_pass varchar2(20));
```

Table created.

```
SQL> create table advocate(advocate_id number primary key,advocate_name varchar2(20),advocate_rating varchar2(20));
```

Table created.

```
SQL> create table types(advocate_type varchar2(20),experience number,advocate_type_id varchar2(20) primary key);
```

Table created.

```
SQL> create table court(pincode number primary key,state_name varchar2(20),city_name varchar2(20));
```

Table created.

```
SQL> create table slot(slot_id number primary key,from_date varchar2(10),tentative_years number,judge_name varchar2(20));
```

Table created.

```
SQL> create table selects(client_id number,advocate_id number,foreign key(client_id) references client(client_id),foreign key(advocate_id) references advocate(advocate_id));
```

Table created.

```
SQL> create table has(advocate_id number,advocate_type_id varchar2(20),foreign key(advocate_id) references advocate(advocate_id),foreign key(advocate_type_id) references types(advocate_type_id));
```

Table created.

```
SQL> create table booking(advocate_id number,pincode number,foreign key(advocate_id)references advocate(advocate_id),foreign key(pincode) references court(pincode));
```

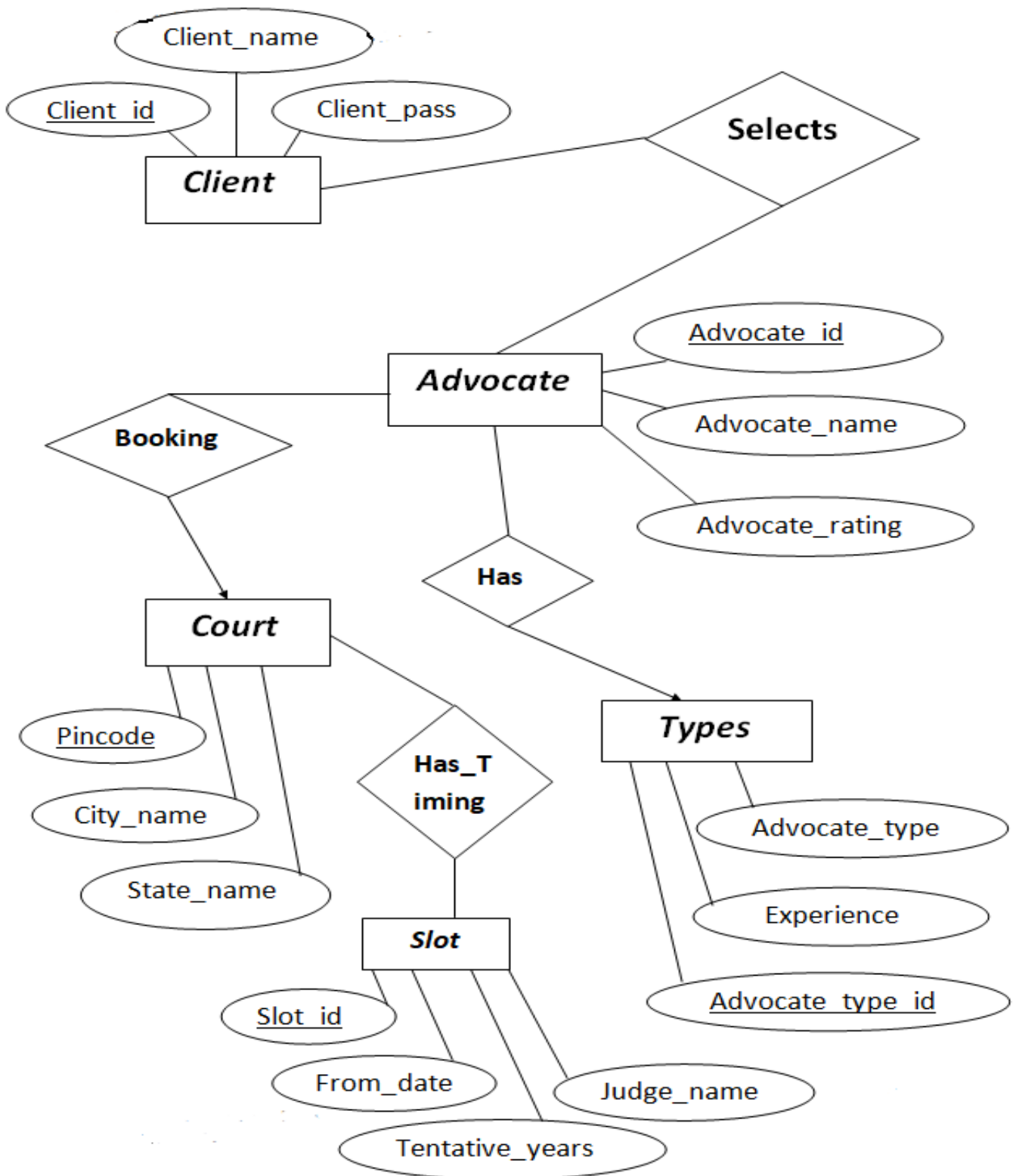
Table created.

```
SQL> create table has_timings(pincode number,slot_id number,foreign key(pincode)references court(pincode),foreign key(slot_id) references slot(slot_id));
```

Table created.

DESIGN:

ER DIAGRAM:



Database Design:

```
Run SQL Command Line
SQL> desc client;
Name                               Null?   Type
-----
CLIENT_ID                         NOT NULL NUMBER
CLIENT_NAME                       VARCHAR2(20)
CLIENT_PASS                       VARCHAR2(20)

SQL> desc advocate;
Name                               Null?   Type
-----
ADVOCATE_ID                       NOT NULL NUMBER
ADVOCATE_NAME                     VARCHAR2(20)
ADVOCATE_RATING                   VARCHAR2(20)

SQL> desc types;
Name                               Null?   Type
-----
ADVOCATE_TYPE                     VARCHAR2(20)
EXPERIENCE                        NUMBER
ADVOCATE_TYPE_ID                 NOT NULL VARCHAR2(20)

SQL> desc court;
Name                               Null?   Type
-----
PINCODE                           NOT NULL NUMBER
STATE_NAME                       VARCHAR2(20)
CITY_NAME                        VARCHAR2(20)

SQL> desc slot;
Name                               Null?   Type
-----
SLOT_ID                           NOT NULL NUMBER
FROM_DATE                        VARCHAR2(10)
TENTATIVE_YEARS                  NUMBER
JUDGE_NAME                       VARCHAR2(20)

SQL> desc selects;
Name                               Null?   Type
-----
CLIENT_ID                        NUMBER
ADVOCATE_ID                      NUMBER

SQL> desc has;
Name                               Null?   Type
-----
ADVOCATE_ID                      NUMBER
ADVOCATE_TYPE_ID                 VARCHAR2(20)

SQL> desc booking;
Name                               Null?   Type
-----
ADVOCATE_ID                      NUMBER
PINCODE                          NUMBER

SQL> desc has_timings;
Name                               Null?   Type
-----
PINCODE                          NUMBER
SLOT_ID                          NUMBER
```

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Implementation:

Program:

Main.java:

```
package CourtManagementSystem;

public class Main {
    public static void main(String []args)
    {
        new ProjectDemo();
    }
}
```

OracleCon.java:

```
package CourtManagementSystem;

import java.sql.*;

public class OracleCon {

    public static void main(String args[]){

        try{
            //step1 load the driver class
            Class.forName("oracle.jdbc.driver.OracleDriver");    //
or Class.forName("oracle.jdbc.OracleDriver");

            //step2 create the connection object
            Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","cha
itanya","vasavi");

            //step3 create the statement object
            Statement stmt=con.createStatement();

            //step4 execute query
            ResultSet rs=stmt.executeQuery("select * from sailors");
            while(rs.next())
                System.out.println(rs.getInt(1)+"
"+rs.getString(2)+" "+rs.getString(3));

            //step5 close the connection object
            con.close();

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

    }
}
```

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ProjectDemo.java:

```
package CourtManagementSystem;

import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.Font;
//import java.awt.Image;
//import java.awt.Toolkit;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;

//import javax.swing.ImageIcon;
import javax.swing.JFrame;
import javax.swing.JMenuItem;
//import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JTextField;

public class ProjectDemo extends JFrame {

    private static final long serialVersionUID = 1L;
    private JMenu
mnclient,mnselects,mnadvo,mnhas,mnbook,mntypes,mncourt,mnhastim,mnslot;
    private JMenuBar mnBar;
    private JMenuItem miSubmit1,miModify1,miDelete1,miView1;
    private JMenuItem miSubmit2,miModify2,miDelete2,miView2;
    private JMenuItem miSubmit3,miModify3,miDelete3,miView3;
    private JMenuItem miSubmit4,miModify4,miDelete4,miView4;
    private JMenuItem miSubmit5,miModify5,miDelete5,miView5;
    private JMenuItem miSubmit6,miModify6,miDelete6,miView6;
    private JMenuItem miSubmit7,miModify7,miDelete7,miView7;
    private JMenuItem miSubmit8,miModify8,miDelete8,miView8;
    private JMenuItem miSubmit9,miModify9,miDelete9,miView9;
    private JTextField txtField;

    static JPanel p1;
    int x=0,y=100;

    void initialize()
    {
        p1 = new JPanel();
        mnclient = new JMenu("Client");
        mnselects = new JMenu("Selects");
        mnadvo = new JMenu("Advocate");
        mnhas = new JMenu("Has");
        mnbook = new JMenu("Booking");
        mntypes = new JMenu("Types");
        mncourt = new JMenu("Court");
        mnhastim = new JMenu("Has_Timings");
        mnslot = new JMenu("Slot");
    }
}
```

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```
mnBar = new JMenuBar();

miSubmit1 = new JMenuItem("Submit");
miModify1 = new JMenuItem("Modify");
miDelete1 = new JMenuItem("Delete");
miView1 = new JMenuItem("View");

miSubmit2 = new JMenuItem("Submit");
miModify2 = new JMenuItem("Modify");
miDelete2 = new JMenuItem("Delete");
miView2 = new JMenuItem("View");

miSubmit3 = new JMenuItem("Submit");
miModify3 = new JMenuItem("Modify");
miDelete3 = new JMenuItem("Delete");
miView3 = new JMenuItem("View");

miSubmit4 = new JMenuItem("Submit");
miModify4 = new JMenuItem("Modify");
miDelete4 = new JMenuItem("Delete");
miView4 = new JMenuItem("View");

miSubmit5 = new JMenuItem("Submit");
miModify5 = new JMenuItem("Modify");
miDelete5 = new JMenuItem("Delete");
miView5 = new JMenuItem("View");

miSubmit6 = new JMenuItem("Submit");
miModify6 = new JMenuItem("Modify");
miDelete6 = new JMenuItem("Delete");
miView6 = new JMenuItem("View");

miSubmit7 = new JMenuItem("Submit");
miModify7 = new JMenuItem("Modify");
miDelete7 = new JMenuItem("Delete");
miView7 = new JMenuItem("View");

miSubmit8 = new JMenuItem("Submit");
miModify8 = new JMenuItem("Modify");
miDelete8 = new JMenuItem("Delete");
miView8 = new JMenuItem("View");

miSubmit9 = new JMenuItem("Submit");
miModify9 = new JMenuItem("Modify");
miDelete9 = new JMenuItem("Delete");
miView9 = new JMenuItem("View");

txtField = new JTextField("          Court Management
");
txtField.setFont(new Font("Serif",Font.PLAIN,42));
txtField.setBackground(Color.cyan);
txtField.setEditable(false);
}
```

System

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```
void addComponentsToFrame()
{
    mnclient.add(miSubmit1);
    mnclient.add(miModify1);
    mnclient.add(miDelete1);
    mnclient.add(miView1);

    mnselects.add(miSubmit2);
    mnselects.add(miModify2);
    mnselects.add(miDelete2);
    mnselects.add(miView2);

    mnadvo.add(miSubmit3);
    mnadvo.add(miModify3);
    mnadvo.add(miDelete3);
    mnadvo.add(miView3);

    mnhas.add(miSubmit4);
    mnhas.add(miModify4);
    mnhas.add(miDelete4);
    mnhas.add(miView4);

    mnbook.add(miSubmit5);
    mnbook.add(miModify5);
    mnbook.add(miDelete5);
    mnbook.add(miView5);

    mntypes.add(miSubmit6);
    mntypes.add(miModify6);
    mntypes.add(miDelete6);
    mntypes.add(miView6);

    mncourt.add(miSubmit7);
    mncourt.add(miModify7);
    mncourt.add(miDelete7);
    mncourt.add(miView7);

    mnhastim.add(miSubmit8);
    mnhastim.add(miModify8);
    mnhastim.add(miDelete8);
    mnhastim.add(miView8);

    mnslot.add(miSubmit9);
    mnslot.add(miModify9);
    mnslot.add(miDelete9);
    mnslot.add(miView9);

    mnBar.add(mnclient);
    mnBar.add(mnselects);
    mnBar.add(mnadvo);
    mnBar.add(mnhas);
    mnBar.add(mnbook);
}
```


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```
        mnBar.add(mntypes);
        mnBar.add(mncourt);
        mnBar.add(mnhastim);
        mnBar.add(mnslot);
        setJMenuBar(mnBar);

        p1.setLayout(new BorderLayout());
        p1.add(txtField,BorderLayout.CENTER);
        this.setLayout(new BorderLayout());
        add(p1,BorderLayout.CENTER);
    }

    void register()
    {
        ClientCMS c1 = new
ClientCMS(p1,ProjectDemo.this,miSubmit1,miModify1,miDelete1,miView1);
        c1.reg_client();
        SelectsCMS c2 = new
SelectsCMS(p1,ProjectDemo.this,miSubmit2,miModify2,miDelete2,miView2);
        c2.reg_selects();
        AdvocateCMS c3 = new
AdvocateCMS(p1,ProjectDemo.this,miSubmit3,miModify3,miDelete3,miView3);
        c3.reg_advocate();
        HasCMS c4 = new
HasCMS(p1,ProjectDemo.this,miSubmit4,miModify4,miDelete4,miView4);
        c4.reg_has();
        BookingCMS c5 = new
BookingCMS(p1,ProjectDemo.this,miSubmit5,miModify5,miDelete5,miView5);
        c5.reg_booking();
        TypesCMS c6 = new
TypesCMS(p1,ProjectDemo.this,miSubmit6,miModify6,miDelete6,miView6);
        c6.reg_types();
        CourtCMS c7 = new
CourtCMS(p1,ProjectDemo.this,miSubmit7,miModify7,miDelete7,miView7);
        c7.reg_court();
        HasTimingCMS c8 = new
HasTimingCMS(p1,ProjectDemo.this,miSubmit8,miModify8,miDelete8,miView8);
        c8.reg_hastiming();
        SlotCMS c9 = new
SlotCMS(p1,ProjectDemo.this,miSubmit9,miModify9,miDelete9,miView9);
        c9.reg_slot();

        addWindowListener(new WindowAdapter(){
            public void windowClosing(WindowEvent evt)
            {
                int a =
JOptionPane.showConfirmDialog(ProjectDemo.this, "Are you sure?","This will
close the UI",JOptionPane.OK_CANCEL_OPTION,JOptionPane.QUESTION_MESSAGE);
                if(a==0)
                {

ProjectDemo.this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                }
            }
        });
    }
}
```

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```
                else if(a==2)
                {
                    ProjectDemo.this.invalidate();
                    ProjectDemo.this.validate();
                    ProjectDemo.this.repaint();
                }
            }
        });
    }

    public ProjectDemo()
    {
        initialize();
        addComponentsToFrame();
        register();
        pack();
        setTitle("Court Management System");
        setSize(600,500);
        setVisible(true);
    }
}
```

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Client.java:

```
package CourtManagementSystem;

import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.GridLayout;
import java.awt.List;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextArea;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

public class ClientCMS {

    //client_id                NOT NULL number
    //client_name              varchar2(20)
    //client_pass              varchar2(20)

    private JPanel p1;
    private JFrame frame;

    private JMenuItem miSubmit1,miModify1,miDelete1,miView1;
    private JLabel lblclient_id,lblclient_name,lblclient_pass;
    private JTextField txtclient_id,txtclient_name,txtclient_pass;
    private JButton btn;
    private JTextArea txtmsg;
    private Connection connection;
    private Statement statement;
    public ClientCMS(JPanel p1,JFrame frame,JMenuItem miSubmit1,JMenuItem
miModify1,JMenuItem miDelete1,JMenuItem miView1) {
        try
```

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```
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
        }
        catch (Exception e)
        {
            System.err.println("Unable to find and load driver");
            System.exit(1);
        }
        connectToDB();
        this.frame=frame;
        this.p1=p1;
        this.miSubmit1=miSubmit1;
        this.miDelete1=miDelete1;
        this.miModify1=miModify1;
        this.miView1=miView1;
        txtclient_id=new JTextField(20);
        txtclient_name=new JTextField(20);
        txtclient_pass=new JTextField(20);
        txtmsg=new JTextArea(8,50);
        lblclient_id=new JLabel("Client Id:");
        lblclient_name=new JLabel("Client Name:");
        lblclient_pass=new JLabel("Client Password:");
        //queryHandler();
    }
    public void connectToDB()
    {
        try
        {
            connection =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","lasya","lasya");
            statement = connection.createStatement();

        }
        catch (SQLException connectException)
        {
            System.out.println(connectException.getMessage());
            System.out.println(connectException.getSQLState());
            System.out.println(connectException.getErrorCode());
            System.exit(1);
        }
    }

    public void reg_client() {
        miSubmit1.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent ae) {
                p1.removeAll();
                frame.invalidate();
                frame.validate();
                frame.repaint();

                JPanel p=new JPanel();
```

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```
txtclient_id=new JTextField(20);
txtclient_name=new JTextField(20);
txtclient_pass=new JTextField(20);
txtmsg=new JTextArea(8,50);
btn=new JButton();
//a grid of lbl and txtfield
p.add(lblclient_id);
p.add(txtclient_id);
p.add(lblclient_name);
p.add(txtclient_name);
p.add(lblclient_pass);
p.add(txtclient_pass);
p.setLayout(new GridLayout(5,2));

p1.add(p);
p1.setBackground(Color.green);
p1.add(btn);
p1.add(txtmsg);//msg text area added to panel
btn.setText("SUBMIT");
p1.setLayout(new FlowLayout());
frame.add(p1,BorderLayout.CENTER);
frame.validate();

//register listener
btn.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {
            Statement statement =
connection.createStatement();
            String query= "INSERT INTO client
VALUES(" + txtclient_id.getText() + ", " + "" + txtclient_name.getText() + "," + "" +
txtclient_pass.getText() + "" + ")";
            int i = statement.executeUpdate(query);
            txtmsg.append("\nInserted " + i +
" rows successfully");
        } catch (SQLException e1) {
            // TODO Auto-generated catch block
            txtmsg.append(e1.getMessage());
        }
    }
});

miModify1.addActionListener(new ActionListener() {
```

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```
public void actionPerformed(ActionEvent ae) {

    p1.removeAll();
    frame.invalidate();
    frame.validate();
    frame.repaint();
    JPanel p=new JPanel();
    txtclient_id=new JTextField(20);
    txtclient_name=new JTextField(20);
    txtclient_pass=new JTextField(20);
    txtmsg=new JTextArea(8,50);
    txtmsg.setEditable(false);
    btn=new JButton();
    List idlist =new List(10);
    try
    {
        ResultSet rs = statement.executeQuery("SELECT client_id
FROM client");

        while (rs.next())
        {
            idlist.add(rs.getString("client_id"));
        }
    }
    catch (SQLException e)
    {
        txtmsg.append(e.getMessage());
    }
    p1.add(idlist);
    p.add(lblclient_id);
    p.add(txtclient_id);
    p.add(lblclient_name);
    p.add(txtclient_name);
    p.add(lblclient_pass);
    p.add(txtclient_pass);
    p.setLayout(new GridLayout(5,2));
    p1.add(p);
    p1.setBackground(Color.yellow);
    p1.add(btn);
    p1.add(txtmsg);
    btn.setText("MODIFY");
    p1.setLayout(new FlowLayout());

    frame.add(p1,BorderLayout.CENTER);
    frame.validate();

    idlist.addItemListener(new ItemListener()
    {
        @Override
        public void itemStateChanged(ItemEvent arg0) {
            // TODO Auto-generated method stub
```

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```
        try
        {
            ResultSet rs =
statement.executeQuery("SELECT * FROM client where CLIENT_ID
="+idlist.getSelectedItemAt());
            rs.next();

            txtclient_id.setText(rs.getString("CLIENT_ID"));

            txtclient_name.setText(rs.getString("CLIENT_NAME"));

            txtclient_pass.setText(rs.getString("CLIENT_PASS"));
        }
        catch (SQLException selectException)
        {

            txtmsg.append(selectException.getMessage());
        }
    });

    btn.addActionListener(new ActionListener() {

        @Override
        public void actionPerformed(ActionEvent e) {
            // TODO Auto-generated method stub
            try
            {
                Statement statement =
connection.createStatement();

                txtmsg.append("UPDATE client "
                    + "SET client_name=" +
                    + "client_pass=" +
                    + " WHERE client_id = "
                    +

                int i =

                + "SET client_name=" +
                + "client_pass=" +
                + " WHERE client_id = "
                + idlist.getSelectedItemAt());
                System.out.println("successful");
```

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```
txtmsg.append("\nUpdated " + i + " rows
successfully");
    }
    catch (SQLException insertException)
    {

txtmsg.append(insertException.getMessage());
    }

    }

});

}

});

miDelete1.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent ae) {

        p1.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();
        JPanel p=new JPanel();
        txtclient_id=new JTextField(20);
        txtclient_name=new JTextField(20);
        txtclient_pass=new JTextField(20);
        txtmsg=new JTextArea(8,50);
        btn=new JButton();
        List idlist =new List(10);
        try
        {
            ResultSet rs = statement.executeQuery("SELECT client_id
FROM client");

            while (rs.next())
            {
                idlist.add(rs.getString("client_id"));
            }
        }
        catch (SQLException e)
        {
            txtmsg.append(e.getMessage());
        }
        p1.add(idlist);
        p.add(lblclient_id);
        p.add(txtclient_id);
        p.add(lblclient_name);
        p.add(txtclient_name);
        p.add(lblclient_pass);
        p.add(txtclient_pass);
        p.setLayout(new GridLayout(5,2));
```


DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

```
p1.add(p);
p1.setBackground(Color.red);
p1.add(btn);
p1.add(txtmsg);
btn.setText("DELETE");
p1.setLayout(new FlowLayout());

frame.add(p1, BorderLayout.CENTER);
frame.validate();

idlist.addItemListener(new ItemListener()
{
    @Override
    public void itemStateChanged(ItemEvent arg0) {
        // TODO Auto-generated method stub

        try
        {
            ResultSet rs =
statement.executeQuery("SELECT * FROM client where CLIENT_ID
="+idlist.getSelectedItem());
                                rs.next();

            txtclient_id.setText(rs.getString("CLIENT_ID"));

            txtclient_name.setText(rs.getString("CLIENT_NAME"));

            txtclient_pass.setText(rs.getString("CLIENT_PASS"));
        }
        catch (SQLException selectException)
        {

            txtmsg.append(selectException.getMessage());
        }
    }
});

btn.addActionListener(new ActionListener() {

    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try
        {
            Statement statement =
connection.createStatement();
                                int i = statement.executeUpdate("delete
from client where client_id=" + idlist.getSelectedItem());
```

DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

```
successfully");

txtmsg.append("\nDeleted " + i + " rows

txtclient_id.setText(null);
txtclient_name.setText(null);
txtclient_pass.setText(null);
idlist.removeAll();
}
catch (SQLException insertException)
{

txtmsg.append(insertException.getMessage());
}

}

});

});

miView1.addActionListener(new ActionListener() {

@Override
public void actionPerformed(ActionEvent e) {
// TODO Auto-generated method stub
p1.removeAll();
frame.invalidate();
frame.validate();
frame.repaint();
JTable j;
DefaultTableModel model = new DefaultTableModel();
j = new JTable(model);
model.addColumn("Client ID");
model.addColumn("Client Name");
model.addColumn("Client Pass");
try {
ResultSet rs=statement.executeQuery("select *from
client");

while(rs.next()) {
model.addRow(new
Object[]{rs.getString("client_id"),rs.getString("client_name"),rs.getString("client_pass")});
}
}
catch(SQLException e1) {
JOptionPane.showMessageDialog(frame,"Something Went Wrong");

}
JScrollPane sp = new JScrollPane(j);

p1.add(sp,BorderLayout.NORTH);
p1.setBackground(Color.orange);
```

DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

```
        frame.invalidate();
        frame.validate();
        frame.repaint();
    }
});
}
}
```

DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

GitHub links and folder structure

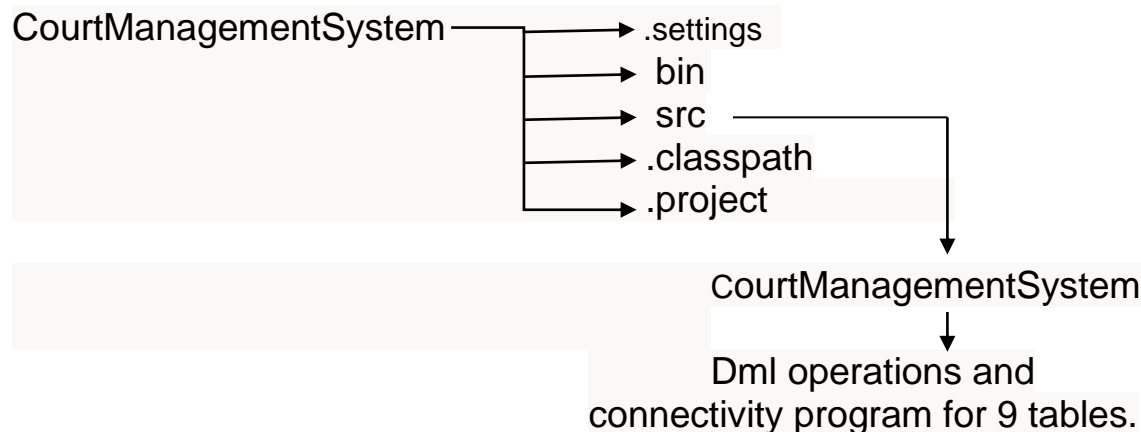
<https://github.com/KrishnaChaitanya28/Court-Management-System-.git>

Folder Structure:

CourtManagementSystem.zip

Court Management System.pdf(assignment 1)

Dbms_report(1602-19-737-308).pdf



This PC > Local Disk (C:) > Users > Appali > eclipse-workspace > CourtManagementSystem

<input type="checkbox"/> Name	Date modified	Type	Size
.settings	15-06-2021 17:16	File folder	
bin	19-06-2021 22:49	File folder	
src	15-06-2021 17:16	File folder	
.classpath	19-06-2021 22:49	CLASSPATH File	1 KB
.project	15-06-2021 17:16	PROJECT File	1 KB

This PC > Local Disk (C:) > Users > Appali > eclipse-workspace > CourtManagementSystem > src > CourtManagementSystem

<input type="checkbox"/> Name	Date modified	Type	Size
AdvocateCMS.java	19-06-2021 23:51	JAVA File	11 KB
BookingCMS.java	19-06-2021 23:51	JAVA File	10 KB
ClientCMS.java	19-06-2021 23:51	JAVA File	11 KB
CourtCMS.java	19-06-2021 23:51	JAVA File	11 KB
HasCMS.java	19-06-2021 23:53	JAVA File	11 KB
HasTimingCMS.java	19-06-2021 23:54	JAVA File	10 KB
Main.java	15-06-2021 17:19	JAVA File	1 KB
OracleCon.java	19-06-2021 22:15	JAVA File	1 KB
ProjectDemo.java	19-06-2021 23:40	JAVA File	7 KB
SelectsCMS.java	19-06-2021 23:56	JAVA File	10 KB
SlotCMS.java	19-06-2021 23:58	JAVA File	12 KB
TypesCMS.java	20-06-2021 00:00	JAVA File	11 KB

DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

This PC > Local Disk (C:) > Users > Appali > eclipse-workspace > CourtManagementSystem > bin > CourtManagementSystem

<input type="checkbox"/> Name	Date modified	Type	Size
AdvocateCMS\$1\$1.class	19-06-2021 23:51	CLASS File	3 KB
AdvocateCMS\$1.class	19-06-2021 23:51	CLASS File	3 KB
AdvocateCMS\$2\$1.class	19-06-2021 23:51	CLASS File	3 KB
AdvocateCMS\$2\$2.class	19-06-2021 23:51	CLASS File	3 KB
AdvocateCMS\$2.class	19-06-2021 23:51	CLASS File	4 KB
AdvocateCMS\$3\$1.class	19-06-2021 23:51	CLASS File	3 KB
AdvocateCMS\$3\$2.class	19-06-2021 23:51	CLASS File	3 KB
AdvocateCMS\$3.class	19-06-2021 23:51	CLASS File	4 KB
AdvocateCMS\$4.class	19-06-2021 23:51	CLASS File	3 KB
AdvocateCMS.class	19-06-2021 23:51	CLASS File	4 KB
BookingCMS\$1\$1.class	19-06-2021 23:51	CLASS File	2 KB
BookingCMS\$1.class	19-06-2021 23:51	CLASS File	3 KB
BookingCMS\$2\$1.class	19-06-2021 23:51	CLASS File	3 KB
BookingCMS\$2\$2.class	19-06-2021 23:51	CLASS File	3 KB
BookingCMS\$2.class	19-06-2021 23:51	CLASS File	4 KB
BookingCMS\$3\$1.class	19-06-2021 23:51	CLASS File	3 KB
BookingCMS\$3\$2.class	19-06-2021 23:51	CLASS File	3 KB
BookingCMS\$3.class	19-06-2021 23:51	CLASS File	4 KB
BookingCMS\$4.class	19-06-2021 23:51	CLASS File	3 KB
BookingCMS.class	19-06-2021 23:51	CLASS File	4 KB
ClientCMS\$1\$1.class	19-06-2021 23:51	CLASS File	2 KB
ClientCMS\$1.class	19-06-2021 23:51	CLASS File	3 KB
ClientCMS\$2\$1.class	19-06-2021 23:51	CLASS File	3 KB
ClientCMS\$2\$2.class	19-06-2021 23:51	CLASS File	3 KB
ClientCMS\$2.class	19-06-2021 23:51	CLASS File	4 KB
ClientCMS\$3\$1.class	19-06-2021 23:51	CLASS File	3 KB
ClientCMS\$3\$2.class	19-06-2021 23:51	CLASS File	3 KB
ClientCMS\$3.class	19-06-2021 23:51	CLASS File	4 KB
ClientCMS\$4.class	19-06-2021 23:51	CLASS File	3 KB
ClientCMS.class	19-06-2021 23:51	CLASS File	4 KB

DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

This PC > Local Disk (C:) > Users > Appali > eclipse-workspace > CourtManagementSystem > bin > CourtManagementSystem

<input type="checkbox"/> Name	Date modified	Type	Size
CourtCMS\$1\$1.class	19-06-2021 23:51	CLASS File	3 KB
CourtCMS\$1.class	19-06-2021 23:51	CLASS File	3 KB
CourtCMS\$2\$1.class	19-06-2021 23:51	CLASS File	3 KB
CourtCMS\$2\$2.class	19-06-2021 23:51	CLASS File	3 KB
CourtCMS\$2.class	19-06-2021 23:51	CLASS File	4 KB
CourtCMS\$3\$1.class	19-06-2021 23:51	CLASS File	3 KB
CourtCMS\$3\$2.class	19-06-2021 23:51	CLASS File	3 KB
CourtCMS\$3.class	19-06-2021 23:51	CLASS File	4 KB
CourtCMS\$4.class	19-06-2021 23:51	CLASS File	3 KB
CourtCMS.class	19-06-2021 23:51	CLASS File	4 KB
HasCMS\$1\$1.class	19-06-2021 23:53	CLASS File	2 KB
HasCMS\$1.class	19-06-2021 23:53	CLASS File	3 KB
HasCMS\$2\$1.class	19-06-2021 23:53	CLASS File	3 KB
HasCMS\$2\$2.class	19-06-2021 23:53	CLASS File	3 KB
HasCMS\$2.class	19-06-2021 23:53	CLASS File	4 KB
HasCMS\$3\$1.class	19-06-2021 23:53	CLASS File	3 KB
HasCMS\$3\$2.class	19-06-2021 23:53	CLASS File	3 KB
HasCMS\$3.class	19-06-2021 23:53	CLASS File	4 KB
HasCMS\$4.class	19-06-2021 23:53	CLASS File	3 KB
HasCMS.class	19-06-2021 23:53	CLASS File	4 KB
HasTimingCMS\$1\$1.class	19-06-2021 23:54	CLASS File	2 KB
HasTimingCMS\$1.class	19-06-2021 23:54	CLASS File	3 KB
HasTimingCMS\$2\$1.class	19-06-2021 23:54	CLASS File	3 KB
HasTimingCMS\$2\$2.class	19-06-2021 23:54	CLASS File	3 KB
HasTimingCMS\$2.class	19-06-2021 23:54	CLASS File	4 KB
HasTimingCMS\$3\$1.class	19-06-2021 23:54	CLASS File	3 KB
HasTimingCMS\$3\$2.class	19-06-2021 23:54	CLASS File	3 KB
HasTimingCMS\$3.class	19-06-2021 23:54	CLASS File	4 KB
HasTimingCMS\$4.class	19-06-2021 23:54	CLASS File	3 KB
HasTimingCMS.class	19-06-2021 23:54	CLASS File	4 KB

DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

This PC > Local Disk (C:) > Users > Appali > eclipse-workspace > CourtManagementSystem > bin > CourtManagementSystem

<input type="checkbox"/> Name	Date modified	Type	Size
Main.class	19-06-2021 22:49	CLASS File	1 KB
OracleCon.class	19-06-2021 22:49	CLASS File	2 KB
ProjectDemo\$1.class	19-06-2021 23:40	CLASS File	2 KB
ProjectDemo.class	19-06-2021 23:40	CLASS File	7 KB
SelectsCMS\$1\$1.class	19-06-2021 23:56	CLASS File	2 KB
SelectsCMS\$1.class	19-06-2021 23:56	CLASS File	3 KB
SelectsCMS\$2\$1.class	19-06-2021 23:56	CLASS File	3 KB
SelectsCMS\$2\$2.class	19-06-2021 23:56	CLASS File	3 KB
SelectsCMS\$2.class	19-06-2021 23:56	CLASS File	4 KB
SelectsCMS\$3\$1.class	19-06-2021 23:56	CLASS File	3 KB
SelectsCMS\$3\$2.class	19-06-2021 23:56	CLASS File	3 KB
SelectsCMS\$3.class	19-06-2021 23:56	CLASS File	4 KB
SelectsCMS\$4.class	19-06-2021 23:56	CLASS File	3 KB
SelectsCMS.class	19-06-2021 23:56	CLASS File	4 KB
SlotCMS\$1\$1.class	19-06-2021 23:58	CLASS File	3 KB
SlotCMS\$1.class	19-06-2021 23:58	CLASS File	3 KB
SlotCMS\$2\$1.class	19-06-2021 23:58	CLASS File	3 KB
SlotCMS\$2\$2.class	19-06-2021 23:58	CLASS File	3 KB
SlotCMS\$2.class	19-06-2021 23:58	CLASS File	4 KB
SlotCMS\$3\$1.class	19-06-2021 23:58	CLASS File	3 KB
SlotCMS\$3\$2.class	19-06-2021 23:58	CLASS File	3 KB
SlotCMS\$3.class	19-06-2021 23:58	CLASS File	4 KB
SlotCMS\$4.class	19-06-2021 23:58	CLASS File	3 KB
SlotCMS.class	19-06-2021 23:58	CLASS File	4 KB
TypesCMS\$1\$1.class	20-06-2021 00:00	CLASS File	2 KB
TypesCMS\$1.class	20-06-2021 00:00	CLASS File	3 KB
TypesCMS\$2\$1.class	20-06-2021 00:00	CLASS File	3 KB
TypesCMS\$2\$2.class	20-06-2021 00:00	CLASS File	3 KB
TypesCMS\$2.class	20-06-2021 00:00	CLASS File	4 KB
TypesCMS\$3\$1.class	20-06-2021 00:00	CLASS File	3 KB
TypesCMS\$3\$2.class	20-06-2021 00:00	CLASS File	3 KB
TypesCMS\$3.class	20-06-2021 00:00	CLASS File	4 KB
TypesCMS\$4.class	20-06-2021 00:00	CLASS File	3 KB
TypesCMS.class	20-06-2021 00:00	CLASS File	4 KB

DBMS ASSIGNMENT
Title: COURT MANAGEMENT SYSTEM

Testing:

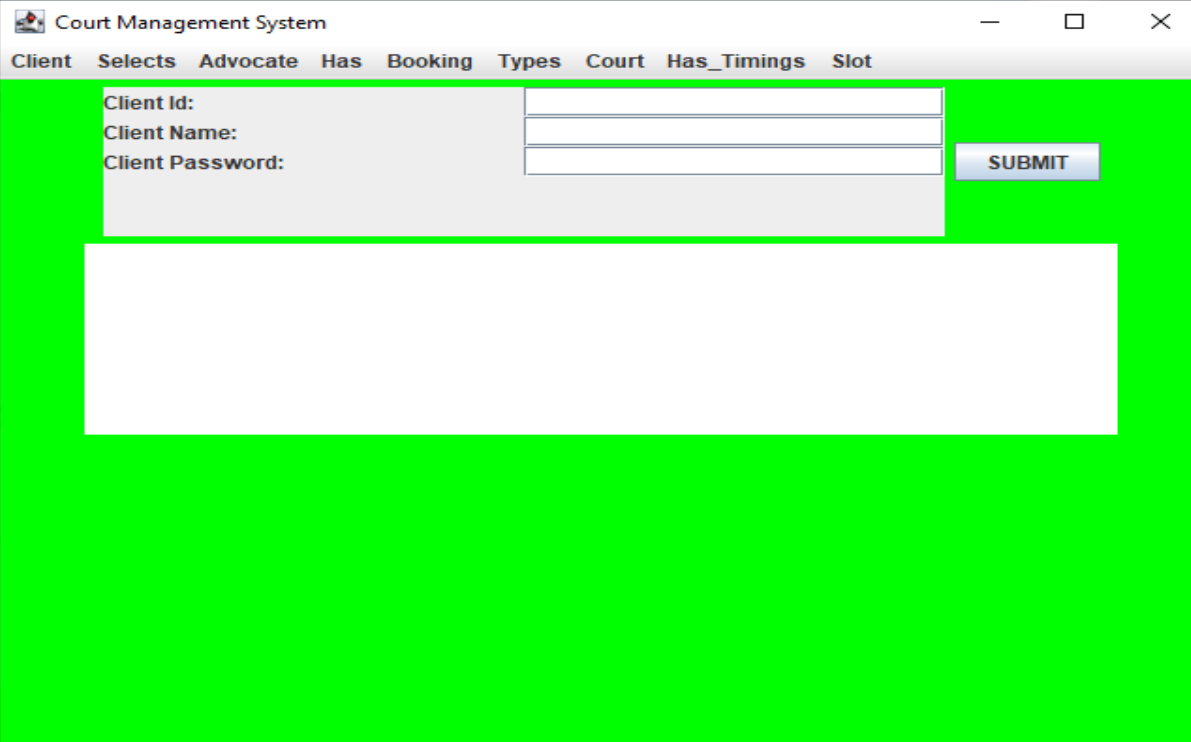
Java GUI Testing:

User Interface

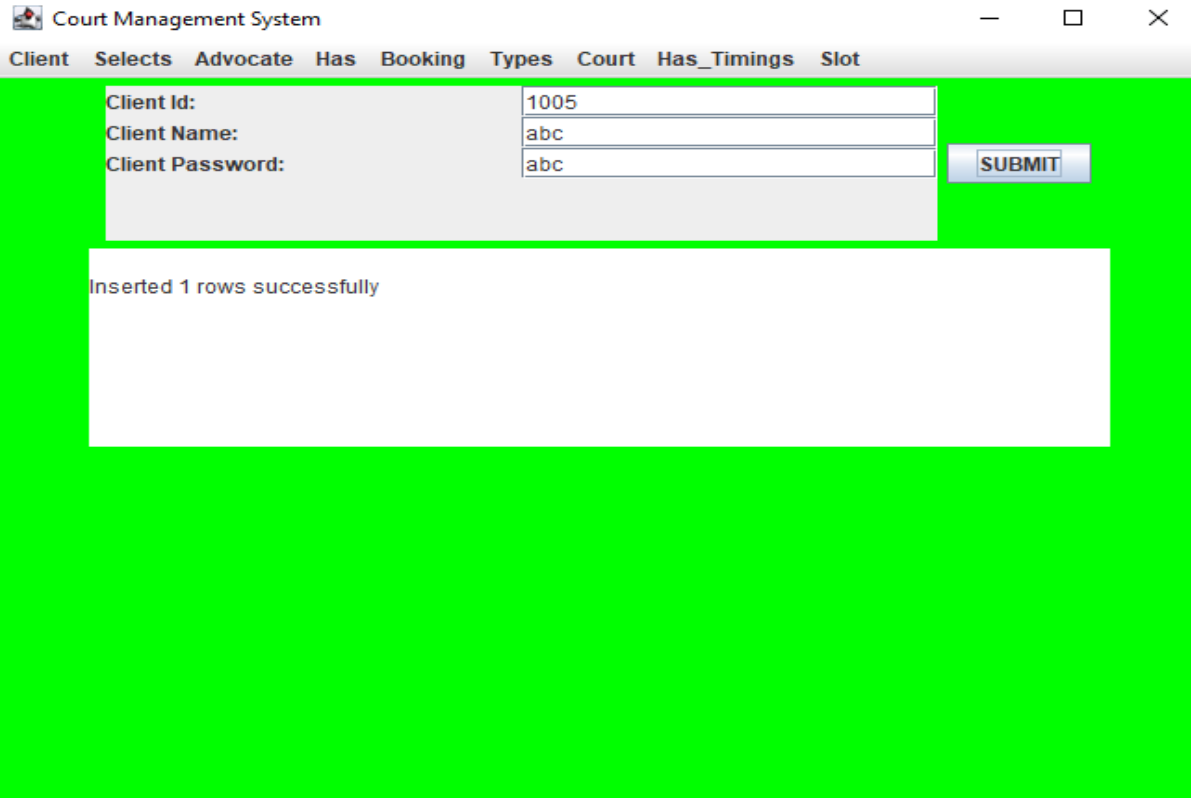


DBMS ASSIGNMENT
Title: COURT MANAGEMENT SYSTEM

Insert Operation(Submit)



The screenshot shows a window titled "Court Management System" with a menu bar containing "Client", "Selects", "Advocate", "Has", "Booking", "Types", "Court", "Has_Timings", and "Slot". The main area is a light gray form with three input fields: "Client Id:", "Client Name:", and "Client Password:". To the right of these fields is a blue "SUBMIT" button. Below the form is a large white rectangular area, likely for displaying the result of the operation.



The screenshot shows the same "Court Management System" window. The input fields now contain the values "1005", "abc", and "abc" for "Client Id:", "Client Name:", and "Client Password:" respectively. The "SUBMIT" button is still present. Below the form, the white rectangular area now displays the message "Inserted 1 rows successfully".

DBMS ASSIGNMENT
Title: COURT MANAGEMENT SYSTEM

Update Operation(Modify)

Court Management System

Client Selects Advocate Has Booking Types Court Has_Timings Slot

1001
1002
1003
1004

Client Id:
Client Name:
Client Password:

MODIFY

Court Management System

Client Selects Advocate Has Booking Types Court Has_Timings Slot

1001
1002
1003
1004
1005

Client Id: 1005
Client Name: abc
Client Password: abc123

Updated 1 rows successfully

MODIFY

DBMS ASSIGNMENT
Title: COURT MANAGEMENT SYSTEM

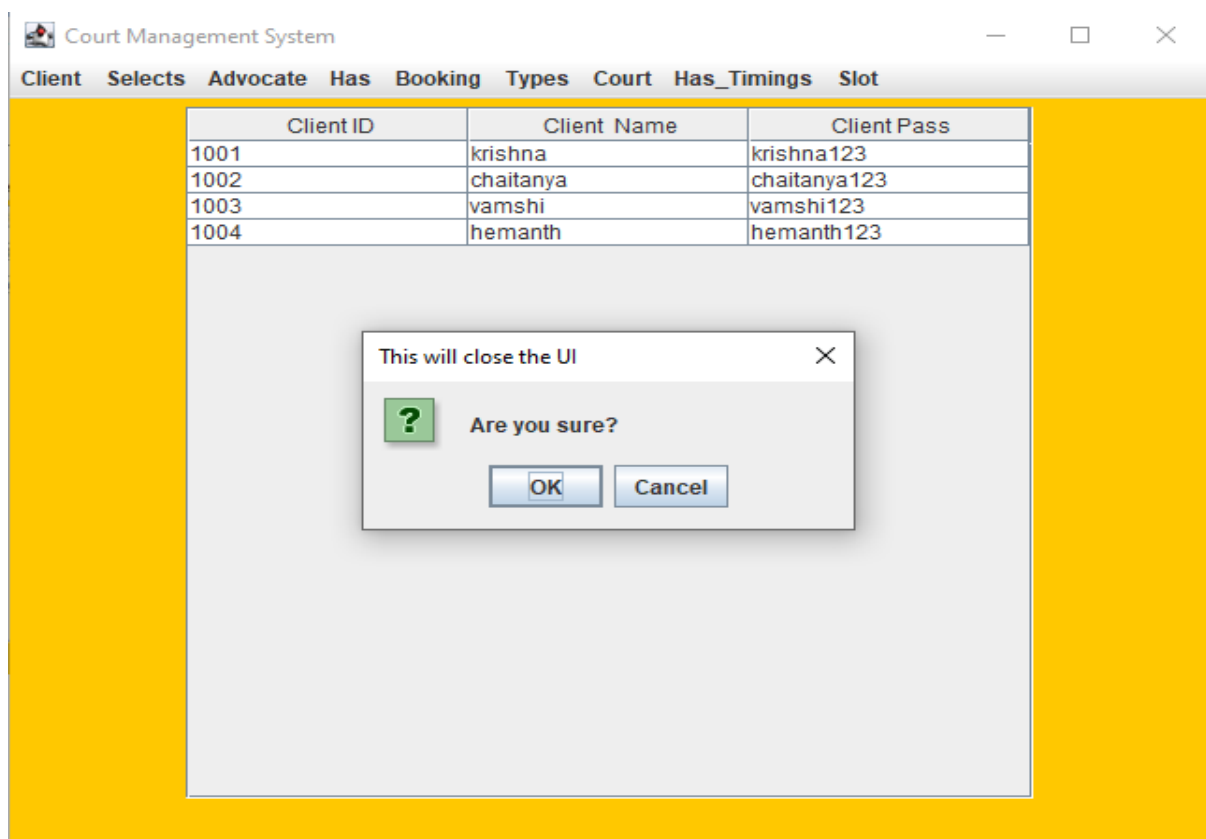
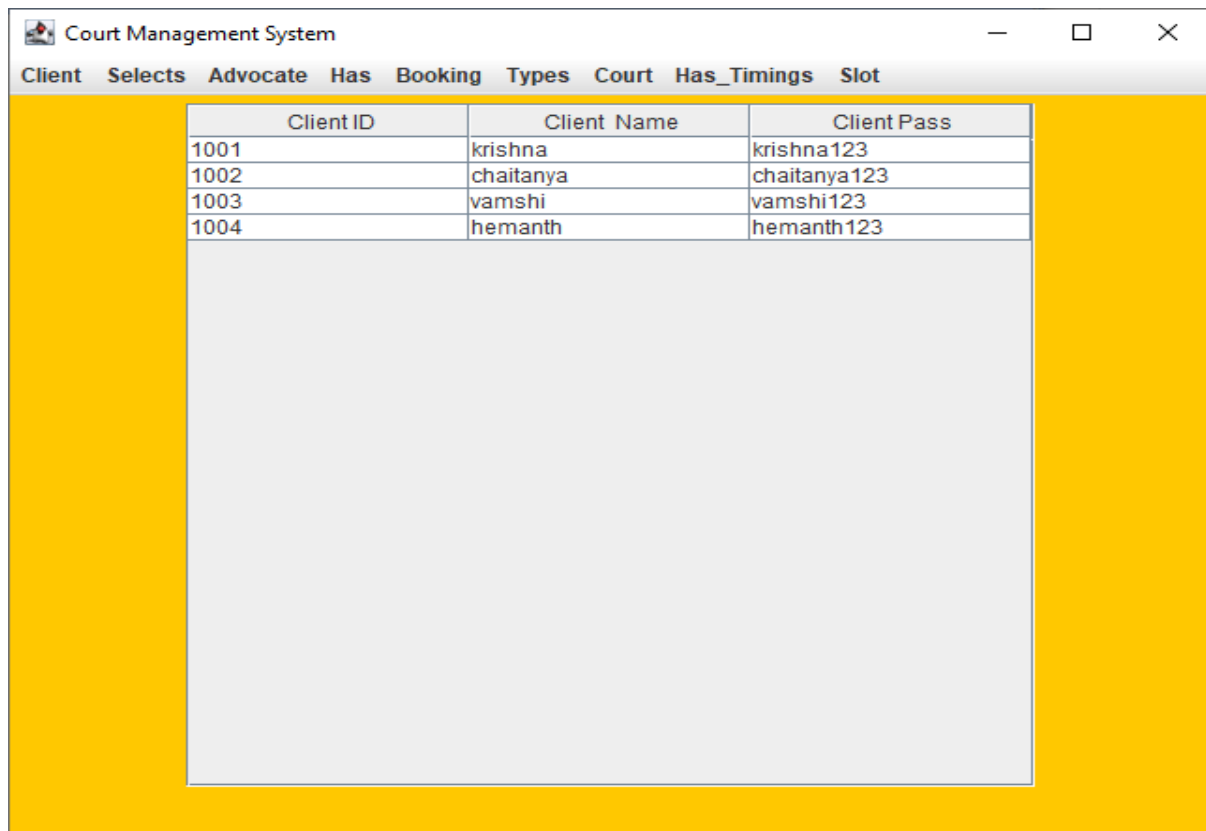
Delete Operation

The screenshot shows a window titled "Court Management System" with a menu bar containing "Client", "Selects", "Advocate", "Has", "Booking", "Types", "Court", "Has_Timings", and "Slot". The main area has a red background. On the left, a list box contains the numbers 1001, 1002, 1003, 1004, and 1005, with 1005 selected. To the right of the list box is a form with three input fields: "Client Id:" with the value "1005", "Client Name:" with the value "abc", and "Client Password:" with the value "abc123". Below the list box is a button labeled "DELETE". To the right of the "DELETE" button is a large white rectangular area.

The screenshot shows the same "Court Management System" window. The list box on the left is now empty. The form on the right still has the same input fields, but they are empty. Below the list box is a button labeled "DELETE". To the right of the "DELETE" button is a large white rectangular area that now contains the text "Deleted 1 rows successfully".

DBMS ASSIGNMENT
Title: COURT MANAGEMENT SYSTEM

Display Operation(View)



DBMS ASSIGNMENT

Title: COURT MANAGEMENT SYSTEM

The data entered in the above form is updated in the table of the Oracle database 11g as:

```
SQL> select * from client;
```

CLIENT_ID	CLIENT_NAME	CLIENT_PASS
1001	krishna	krishna123
1002	chaitanya	chaitanya123
1003	vamshi	vamshi123
1004	hemanth	hemanth123

Results:

I successfully completed this Assignment “Court Management System”.

Discussion and Future work

While doing this project I got to learn many new things (both front end and back end). This project helps many people around the country to complete most (80%) of work from home and also has feedback and experience column which helps users/customers/clients to select a suitable/experienced advocate.

In future I want to create a android/Ios app which will reduce most of the physical work and also there could be room for including advanced software and other technologies that could make the project more purposeful and better for future use.

References:

- <https://docs.oracle.com/javase/7/docs/index.html>
- <https://www.javatpoint.com/dbms-tutorial>
- http://www.sqlines.com/articles/java/sql_server_jdbc_connection

Thank You