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**CERTIFICATE**

This is to certify that **Dinesh Ketana** is a student  
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**INFORMATION TECHNOLOGY** has done the project with title **RESTAURANT**  
**MANAGEMENT SYSTEM** the year **2023-2024** in the subject **DATABASE**  
**MANAGEMENT SYSTEM LAB.**

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# **DATA BASE MANAGEMENT SYSTEM (DBMS) PROJECT**

**Title: Restaurant Management System**  
Using **JAVA** and **SQL** Languages.

**Submitted by:**

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## **Description:**

This is a restaurant management system designed using Java and SQL to help in functionalities of the restaurant. Java has been used as the base language of programming because its strength and independence of the platform makes it executable in various operating systems. SQL is used in database management, meaning that any relevant data storage, either retrieval or fetching, is done effectively.

Basically, the system packages the workability of multiple modules. The Menu Management module enables administrators to update or change, in real-time, items on the menu, prices, and availability, thereby accurately representing the offerings. Ordering functionality empowers customers to place orders, aided with customization and special request options through an intuitive interface.

Other Employee Management features include the user role and permissions, allowing secure access control to the staff. The system is built to ensure that, in this particular case, tasks such as processing and managing orders, inventory, generating reports, amongst others, are restricted to only people authorized to perform them. Its reporting module provides the ability to report extensively on sales, inventory levels, and financial summaries for managerial decision-making and performance analysis.

Further integration with external systems and APIs provides additional functionality, such as online reservations, payment gateways, and loyalty programs, thereby improving customer experience and operational efficiency. The architecture of the system ensures adherence to the best principles in software design, where modularization and abstraction enable scalability and maintainability.

During development, usability and reliability are emphasized in order to resist quick restaurant environment demands. User feedback and iterative testing guarantee that the system conforms to operational requirements and fulfils customer expectations. In all, the Restaurant Management System uses Java and SQL to provide an all-rounded solution that makes restaurant operations more efficient for better customer serving and hence supporting business growth.

## ER – Diagram:



## SQL Queries:

- Table: **ADMIN DETAILS**

CREATE TABLE MENU (IID NUMBER(4) NOT NULL PRIMARY KEY ,INAME VARCHAR2(30) NOT NULL ,SC NUMBER(4) DEFAULT NULL, DC NUMBER(4)DEFAULT NULL, MC NUMBER(4) DEFAULT NULL);

```
SQL> CREATE TABLE MENU (IID NUMBER(4) NOT NULL PRIMARY KEY ,INAME VARCHAR2(30) NOT NULL ,SC NUMBER(4) DEFAULT NULL, DC NUMBER(4)DEFAULT NULL, MC NUMBER(4) DEFAULT NULL);
```

Table created.

- Table: **CUSTOMER DETAILS**

CREATE TABLE CUSTOMER (CNAME VARCHAR2(20) NOT NULL, CPHONE NUMBER(10) NOT NULL,CBILL NUMBER (5) DEFAULT 0);

```
SQL> CREATE TABLE CUSTOMER (CNAME VARCHAR2(20) NOT NULL, CPHONE NUMBER(10) NOT NULL,CBILL NUMBER (5) DEFAULT 0);
```

Table created.

## Java Using GUI Based Application:

### Source code:

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import javax.swing.*;
import javax.swing.table.*;
import javax.swing.table.*;
```

```
public class Menu extends JFrame implements ActionListener
{
    private final String predefinedUsername = "ADMIN";
    private final String predefinedPassword = "1234";
    private JTextField uf;
    private JPasswordField pf;
    private JButton AD;
    private JButton CD;
    private JButton lb;
    private JLabel c;
    private JLabel title;
    public Menu()
    {
        setTitle("Restaurant Management");
        setSize(1366, 700);
        setLayout(new BorderLayout());
        ImageIcon imageIcon = new ImageIcon("C:\\Users\\dines\\Downloads\\Pic1.jpg");
        title = new JLabel("  Restaurant Management System",imageIcon,SwingConstants.CENTER);
        title.setFont(new Font("Times New Roman", Font.BOLD, 35));
        title.setOpaque(true);
        title.setBackground(Color.BLACK);
        title.setForeground(Color.WHITE);
        add(title, BorderLayout.CENTER);
        JPanel centerPanel = new JPanel();
        centerPanel.setLayout(new GridLayout(3, 1, 0, 10));
        centerPanel.setBackground(Color.lightGray);
        c = new JLabel("WHO ARE YOU?", SwingConstants.CENTER);
        c.setFont(new Font("Times New Roman", Font.BOLD, 25));
        c.setBackground(Color.GREEN);
        centerPanel.add(c);
        JPanel buttonPanel = new JPanel();
        buttonPanel.setLayout(new FlowLayout(FlowLayout.CENTER, 30, 10));
```

```

buttonPanel.setBackground(Color.lightGray);

AD = new JButton("ADMIN");
AD.addActionListener(this);
AD.setBackground(Color.RED);
AD.setForeground(Color.BLACK);
AD.setFont(new Font("Times New Roman", Font.BOLD, 18));
buttonPanel.add(AD);

CD = new JButton("CUSTOMER");
CD.addActionListener(this);
CD.setBackground(Color.orange);
CD.setForeground(Color.black);
CD.setFont(new Font("Times New Roman", Font.BOLD, 18));
buttonPanel.add(CD);
centerPanel.add(buttonPanel);
add(centerPanel, BorderLayout.SOUTH);
setVisible(true);
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
}

```

@Override

```

public void actionPerformed(ActionEvent e)
{
    if (e.getSource() == AD)
    {
        JFrame adminFrame = new JFrame("ADMIN DETAILS");
        adminFrame.setSize(1366, 768 );
        adminFrame.setLayout(new FlowLayout());
        adminFrame.setLayout(null);
        JLabel p=new JLabel("ADMIN DETAILS");
        p.setBounds(590,50,300,60);
        p.setFont(new Font("Georgia", Font.BOLD, 30));
        p.setForeground(Color.yellow);
        adminFrame.add(p);
    }
}

```

```
JLabel ul = new JLabel(" USERNAME",JLabel.CENTER);
ul.setFont(new Font("Times New Roman", Font.BOLD, 25));
ul.setBounds(200,200, 500, 30);

JLabel pl = new JLabel(" PASSWORD", JLabel.CENTER);
pl.setBounds(200,300, 500, 30);
pl.setFont(new Font("Times New Roman", Font.BOLD, 25));
JLabel sl=new JLabel(" ");
uf = new JTextField(50);
uf.setBounds(600,180, 430, 80);
uf.setFont(new Font("Times New Roman", Font.BOLD, 25));
pf = new JPasswordField(50);
pf.setBounds(600,280, 430, 80);
pf.setFont(new Font("Times New Roman", Font.BOLD, 25));
lb = new JButton("LOGIN");
lb.setBounds(600,380, 430, 80);
lb.setBackground(Color.red);
lb.setForeground(Color.WHITE);
lb.setFont(new Font("Times New Roman", Font.BOLD, 25));
adminFrame.getContentPane().setBackground(Color.black);
ul.setForeground(Color.white);
pl.setForeground(Color.white);
uf.setForeground(Color.black);
pf.setForeground(Color.black);
uf.setBackground(Color.lightGray);
pf.setBackground(Color.lightGray);
adminFrame.add(ul);
adminFrame.add(uf);
adminFrame.add(pl);
adminFrame.add(pf);
adminFrame.add(new JLabel(" "));
adminFrame.add(lb);
adminFrame.add(new JLabel(" "));
```

```

adminFrame.add(sl);

lb.addActionListener(new ActionListener()
{
    @Override
    public void actionPerformed(ActionEvent e)
    {
        String username = uf.getText();
        String password = new String(pf.getPassword());
        if (username.equals(predefinedUsername) && password.equals(predefinedPassword))
        {
            sl.setText("LOGIN SUCCESS!!");

            JFrame adminFrame1=new JFrame("INSERTION TAB");
            adminFrame1.setSize(1366, 768);
            setLayout(new FlowLayout());
            adminFrame1.setLayout(null);
            adminFrame1.getContentPane().setBackground(Color.black);
            JLabel info=new JLabel("YOU ARE LOGIN SUCCESSFULL!");
            info.setBounds(510,40,500,30);
            info.setFont(new Font("Georgia", Font.BOLD, 20));
            info.setForeground(Color.yellow);
            adminFrame1.add(info);

            JLabel info1=new JLabel("----- NOW YOU CAN UPDATE YOUR MENU -----");
            info1.setBounds(400,80,580,30);
            info1.setFont(new Font("Georgia", Font.BOLD, 20));
            info1.setForeground(Color.GREEN);
            adminFrame1.add(info1);

            JLabel info2=new JLabel(" ");
            info2.setBounds(855,650, 430, 50);
            info2.setForeground(Color.green);
            info2.setFont(new Font("Times New Roman", Font.BOLD, 20));
            JLabel il1=new JLabel("ENTER ITEM ID:");
            il1.setFont(new Font("Times New Roman", Font.BOLD, 20));

```



```
il1.setBounds(250,160, 500, 30);
il1.setForeground(Color.orange);
JLabel il2=new JLabel("ENTER ITEM NAME:");
il2.setFont(new Font("Times New Roman", Font.BOLD, 20));
il2.setBounds(250,260, 500, 30);
il2.setForeground(Color.orange);
JLabel il3=new JLabel("ENTER ITEM SINGLE COST:");
il3.setFont(new Font("Times New Roman", Font.BOLD, 20));
il3.setBounds(250,360, 500, 30);
il3.setForeground(Color.orange);
JLabel il4=new JLabel("ENTER ITEM DOUBLE COST:");
il4.setFont(new Font("Times New Roman", Font.BOLD, 20));
il4.setBounds(250,460, 500, 30);
il4.setForeground(Color.orange);
JLabel il5=new JLabel("ENTER ITEM MANDI COST:");
il5.setFont(new Font("Times New Roman", Font.BOLD, 20));
il5.setBounds(250,560, 500, 30);
il5.setForeground(Color.orange);
JTextField if1=new JTextField();
if1.setBounds(550,150, 550, 50);
if1.setFont(new Font("Times New Roman", Font.BOLD, 25));
if1.setForeground(Color.black);
if1.setBackground(Color.lightGray);
JTextField if2=new JTextField();
if2.setBounds(550,250, 550, 50);
if2.setFont(new Font("Times New Roman", Font.BOLD, 25));
if2.setForeground(Color.black);
if2.setBackground(Color.lightGray);
JTextField if3=new JTextField();
if3.setBounds(550,350, 550, 50);
if3.setFont(new Font("Times New Roman", Font.BOLD, 25));
if3.setForeground(Color.black);
```

```
if3.setBackground(Color.lightGray);

JTextField if4=new JTextField();

if4.setBounds(550,450, 550, 50);

if4.setFont(new Font("Times New Roman", Font.BOLD, 25));

if4.setForeground(Color.black);

if4.setBackground(Color.lightGray);

JTextField if5=new JTextField();

if5.setBounds(550,550, 550, 50);

if5.setFont(new Font("Times New Roman", Font.BOLD, 25));

if5.setForeground(Color.black);

if5.setBackground(Color.lightGray);

JButton inst=new JButton("INSERT");

inst.setBounds(225,650, 430, 50);

inst.setBackground(Color.red);

inst.setForeground(Color.WHITE);

inst.setFont(new Font("Times New Roman", Font.BOLD, 20));

adminFrame1.add(info);

adminFrame1.add(info1);

adminFrame1.add(il1);

adminFrame1.add(if1);

adminFrame1.add(il2);

adminFrame1.add(if2);

adminFrame1.add(il3);

adminFrame1.add(if3);

adminFrame1.add(il4);

adminFrame1.add(if4);

adminFrame1.add(il5);

adminFrame1.add(if5);

adminFrame1.add(inst);

adminFrame1.add(info2);

adminFrame1.setVisible(true);

adminFrame.setVisible(false);
```

```

inst.addActionListener(new ActionListener()
{
    @Override
    public void actionPerformed(ActionEvent e)
    {
        int v1 = Integer.parseInt(if1.getText());
        String v2 = if2.getText();
        int v3 = Integer.parseInt(if3.getText());
        int v4 = Integer.parseInt(if4.getText());
        int v5 = Integer.parseInt(if5.getText());
        try {
            String sql = "INSERT INTO MENU VALUES (?, ?, ?, ?, ?)";
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection connection1 =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "DBMS", "DBMS");
            PreparedStatement pstmt = connection1.prepareStatement(sql);
            pstmt.setInt(1, v1);
            pstmt.setString(2, v2);
            pstmt.setInt(3, v3);
            pstmt.setInt(4, v4);
            pstmt.setInt(5, v5);
            int rowsInserted = pstmt.executeUpdate();
            if (rowsInserted > 0)
            {
                info2.setText("INSERTED SUCCESSFULLY");
            }
            else
            {
                info2.setText("INSERTION FAILED");
            }
            pstmt.close();

```

```

        connection1.close();

    }
    catch (ClassNotFoundException | SQLException d)
    {
    {}));){
        System.out.println("Incorrect username or password");
    }
    }
});
adminFrame.setVisible(true);
}
else if(e.getSource() == CD)
{
    JFrame cf = new JFrame("CUSTOMER DETAILS");
    cf.setSize(1366, 768);
    cf.setLayout(new FlowLayout());
    cf.setLayout(null);
    JLabel q=new JLabel("CUSTOMER DETAILS");
    q.setBounds(500,50,600,60);
    q.setFont(new Font("Georgia", Font.BOLD, 30));
    q.setForeground(Color.red);
    cf.add(q);
    JLabel cnl = new JLabel("ENTER YOUR NAME ",JLabel.CENTER);
    cnl.setFont(new Font("Times New Roman", Font.BOLD, 25));
    cnl.setBounds(140,200,500,30);
    cnl.setForeground(Color.white);
    JLabel cpl = new JLabel("ENTER PHONE NUMBER ",JLabel.CENTER);
    cpl.setFont(new Font("Times New Roman", Font.BOLD, 25));
    cpl.setBounds(66,305,700,30);
    cpl.setForeground(Color.white);
    JLabel cl=new JLabel(" ");
    JTextField cnf = new JTextField(10);
    cnf.setFont(new Font("Times New Roman", Font.BOLD, 25));

```

```
cnf.setBounds(600,180,430,80);
cnf.setForeground(Color.BLACK);
cnf.setBackground(Color.lightGray);
JTextField cpf = new JTextField(10);
cpf.setFont(new Font("Times New Roman", Font.BOLD, 25));
cpf.setBounds(600,280,430,80);
cpf.setForeground(Color.BLACK);
cpf.setBackground(Color.lightGray);
JButton sb = new JButton("SUBMIT");
sb.setBounds(600,380,430,80);
sb.setFont(new Font("Times New Roman", Font.BOLD, 25));
sb.setForeground(Color.BLACK);
sb.setBackground(Color.orange);
cf.add(cnl);
cf.add(cnf);
cf.add(cpl);
cf.add(cpf);
cf.add(new JLabel(" "));
cf.add(sb);
cf.add(new JLabel(" "));
cf.add(cl);
cf.getContentPane().setBackground(Color.black);
sb.addActionListener(new ActionListener()
{
    @Override
    public void actionPerformed(ActionEvent e)
    {
        String name=cnf.getText();
        String phone=cpf.getText();
        if(name.isEmpty()||phone.isEmpty())
        {
```

```

        cl.setText("MUST ENTER NAME AND PHONE NUMBER");
        cl.setFont(new Font("Times New Roman", Font.BOLD, 25));
        cl.setBounds(600,490,500,50);
        cl.setForeground(Color.RED);
        cl.setBackground(Color.lightGray);
    }
else
{
    cl.setText("LOGIN SUCCESS!!");
    cl.setFont(new Font("Times New Roman", Font.BOLD, 25));
    cl.setBounds(600,490,500,50);
    cl.setForeground(Color.GREEN);
    cl.setBackground(Color.lightGray);

    try
    {
        String sql = "INSERT INTO CUSTOMER(CNAME,CPHONE) VALUES (?, ?)";
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection connection1 =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "DBMS", "DBMS");

        PreparedStatement pstmt = connection1.prepareStatement(sql);

        pstmt.setString(1,name);
        pstmt.setString(2, phone);

        int rowsInserted = pstmt.executeUpdate();

        if (rowsInserted > 0)
        {
            System.out.print("INSERTED SUCCESSFULLY");
        }
        else
        {
            System.out.print("INSERTION FAILED");
        }

        pstmt.close();
    }
}

```

```
        connection1.close();
    }
    catch (ClassNotFoundException | SQLException d)
    {
        d.printStackTrace();
    }

    JFrame md = new JFrame("MENU DETAILS");
    md.setSize(1366, 768);
    md.getContentPane().setBackground(Color.BLACK);
    setLayout(new FlowLayout());
    md.setLayout(null);

    JLabel info = new JLabel("SELECT YOUR MENU");
    info.setFont(new Font("Times New Roman", Font.BOLD, 20));
    info.setBounds(250,50,300,20);
    info.setForeground(Color.yellow);

    JLabel id = new JLabel("ENTER ITEM ID:");
    id.setFont(new Font("Times New Roman", Font.BOLD, 20));
    id.setBounds(250,305,300,18);
    id.setForeground(Color.yellow);

    JLabel pack = new JLabel("ENTER PACK(SC,DC,MC):");
    pack.setFont(new Font("Times New Roman", Font.BOLD, 20));
    pack.setBounds(250,405,300,18);
    pack.setForeground(Color.yellow);

    JLabel qn = new JLabel("ENTER QUANTITY:");
    qn.setFont(new Font("Times New Roman", Font.BOLD, 20));
    qn.setBounds(250,505,300,18);
    qn.setForeground(Color.yellow);

    JTextField idf=new JTextField();
    idf.setFont(new Font("Times New Roman", Font.BOLD, 25));
    idf.setBounds(600,290,450,50);
    idf.setForeground(Color.BLACK);
```

```

idf.setBackground(Color.lightGray);

JTextField packf=new JTextField();

packf.setFont(new Font("Times New Roman", Font.BOLD, 25));

packf.setBounds(600,390,450,50);

packf.setForeground(Color.BLACK);

packf.setBackground(Color.lightGray);

JTextField qnf=new JTextField();

qnf.setFont(new Font("Times New Roman", Font.BOLD, 25));

qnf.setBounds(600,490,450,50);

qnf.setForeground(Color.BLACK);

qnf.setBackground(Color.lightGray);

JButton bill=new JButton("BILL");

bill.setBounds(600,560,450,50);

bill.setFont(new Font("Times New Roman", Font.BOLD, 18));

bill.setForeground(Color.BLACK);

bill.setBackground(Color.pink);

JLabel info2 = new JLabel(" ");

String data[][] =new String[100][5];

try {

    String sql = "SELECT IID,INAME, SC, DC, MC FROM MENU ORDER BY IID";

    Class.forName("oracle.jdbc.driver.OracleDriver");

    Connection connection1 =

DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "DBMS", "DBMS");

    Statement stmt = connection1.createStatement();

    ResultSet rs = stmt.executeQuery(sql);

    int i = 0;

    while (rs.next()) {

        data[i][0] = Integer.toString(rs.getInt(1));

        data[i][1] = rs.getString(2);

        data[i][2] = Integer.toString(rs.getInt(3));

        data[i][3] = Integer.toString(rs.getInt(4));

        data[i][4] = Integer.toString(rs.getInt(5));

```



```

        i++;

    }

    } catch (Exception f) {

        System.out.print(f);

    }

    String column[] = {"ITEM ID","ITEM NAME", "SINGLE COST", "DOUBLE COST",
"MANDI COST"};

    JTable jt = new JTable(data, column);

    jt.setForeground(Color.BLACK);

    TableColumnModel columnModel = jt.getColumnModel();

    int itemNameColumnIndex = 1;

    TableColumn itemNameColumn = columnModel.getColumn(itemNameColumnIndex);

    itemNameColumn.setPreferredWidth(300);

    JScrollPane sp = new JScrollPane(jt);

    sp.setBounds(250, 100, 800, 150);

    md.add(info);

    md.add(info2);

    md.add(sp);

    md.add(new JLabel(" "));

    md.add(id);

    md.add(idf);

    md.add(pack);

    md.add(packf);

    md.add(qn);

    md.add(qnf);

    md.add(bill);

    md.add(new JLabel(" "));

    md.setVisible(true);

    bill.addActionListener(new ActionListener() {

        @Override

        public void actionPerformed(ActionEvent e) {

            try {

```

```

        String i1 = idf.getText();

        String i2 = packf.getText();

        int i3 = Integer.parseInt(qnf.getText());

        int bll = 0;

        int d = 0;

        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection connection1 =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "DBMS", "DBMS");

        String sql = "SELECT " + i2 + " FROM MENU WHERE IID=?";

        PreparedStatement pstmt = connection1.prepareStatement(sql);

        pstmt.setString(1, i1);

        ResultSet rs = pstmt.executeQuery();

        if(rs.next()) {

            d = rs.getInt(1);

            CPHONE=?";
        }

        bll = i3 * d;

        String upd = "UPDATE CUSTOMER SET CBILL=? WHERE CNAME=? AND

PreparedStatement updateStmt = connection1.prepareStatement(upd);

updateStmt.setInt(1, bll);

updateStmt.setString(2, name);

updateStmt.setString(3, phone);

updateStmt.executeUpdate(); rs.close();

pstmt.close(); updateStmt.close();

connection1.close();

        String i5 = idf.getText();

        JFrame bd=new JFrame("BILL SUMMARRY");

        bd.setBounds(100,200,600,500);

        bd.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        bd.setSize(500, 500);

        bd.getContentPane().setBackground(Color.BLACK);

```

```
setLayout(new FlowLayout());

bd.setLayout(null);

JLabel nmB=new JLabel("BILL SUMMARY");

nmB.setFont(new Font("Times New Roman", Font.BOLD, 20));

nmB.setBounds(180,50,300,20);

nmB.setForeground(Color.PINK);

JLabel nm=new JLabel("NAME:");

nm.setFont(new Font("Times New Roman", Font.BOLD, 20));

nm.setBounds(50,100,300,20);

nm.setForeground(Color.green);

JLabel pn=new JLabel("PHONE:");

pn.setFont(new Font("Times New Roman", Font.BOLD, 20));

pn.setBounds(50,150,300,20);

pn.setForeground(Color.green);

JLabel it=new JLabel("ITEM ORDERED:");

it.setFont(new Font("Times New Roman", Font.BOLD, 20));

it.setBounds(50,200,300,20);

it.setForeground(Color.green);

JLabel bl=new JLabel("BILL:");

bl.setFont(new Font("Times New Roman", Font.BOLD, 20));

bl.setBounds(50,250,300,20);

bl.setForeground(Color.green);

JTextField nmf=new JTextField();

nmf.setFont(new Font("Times New Roman", Font.BOLD, 15));

nmf.setBounds(230,90,220,30);

nmf.setForeground(Color.BLACK);

nmf.setBackground(Color.lightGray);

JTextField pnf=new JTextField();

pnf.setFont(new Font("Times New Roman", Font.BOLD, 15));

pnf.setBounds(230,140,220,30);

pnf.setForeground(Color.BLACK);
```

```

pnf.setBackground(Color.lightGray);

JTextField itf=new JTextField();

itf.setFont(new Font("Times New Roman", Font.BOLD, 15));

itf.setBounds(230,190,220,30);

itf.setForeground(Color.BLACK);

itf.setBackground(Color.lightGray);

JTextField blf=new JTextField();

blf.setFont(new Font("Times New Roman", Font.BOLD, 15));

blf.setBounds(230,240,220,30);

blf.setForeground(Color.BLACK);

blf.setBackground(Color.lightGray);

```

```

String fetchSql = "SELECT CNAME, CPHONE, CBILL FROM CUSTOMER WHERE
CNAME=? AND CPHONE=?";

```

```

Connection connection2 =
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "DBMS", "DBMS");

```

```

PreparedStatement fetchStmt = connection2.prepareStatement(fetchSql);

```

```

fetchStmt.setString(1, name);

```

```

fetchStmt.setString(2, phone);

```

```

ResultSet rsFetch = fetchStmt.executeQuery();

```

```

if (rsFetch.next()) {

```

```

    String a = rsFetch.getString(1);

```

```

    String b = rsFetch.getString(2);

```

```

    int fetchedBill = rsFetch.getInt(3);

```

```

    nmf.setText(a);

```

```

    pnf.setText(b);

```

```

    blf.setText(String.valueOf(fetchedBill));

```

```

}

```

```

fetchSql="SELECT INAME FROM MENU WHERE IID=?";

```

```

PreparedStatement fetchStmt1 = connection2.prepareStatement(fetchSql);

```

```

fetchStmt1.setString(1,i5);

```

```

ResultSet rsFetch1 = fetchStmt1.executeQuery();

```

```

if(rsFetch1.next())

```

```

{

```

```

        String c = rsFetch1.getString(1);

        itf.setText(c);

    }

    rsFetch.close();
    fetchStmt.close();
    rsFetch1.close();
    fetchStmt1.close();
    connection2.close();

    bd.add(nm);
    bd.add(nmB);
    bd.add(nmf);
    bd.add(pn);
    bd.add(pnf);
    bd.add(it);
    bd.add(itf);
    bd.add(bl);
    bd.add(blF);

    JLabel vst =new JLabel("THANK YOU VISIT AGAIN!");
    vst.setFont(new Font("Times New Roman", Font.BOLD, 20));
    vst.setBounds(100,400,300,20);
    vst.setForeground(Color.orange);

    bd.add(vst);

    bd.setVisible(true);
} catch (Exception ex) {
    ex.printStackTrace();
}

}

});

}

}

```

```

    });

    cf.setVisible(true);

}

}

public static void main(String[] args)
{
    SwingUtilities.invokeLater(new Runnable()
    {
        public void run()
        {
            new Menu();
        }
    });
}
}

```

## **JDBC – JAVA Connection:**

### **ADMIN:**

```

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.SQLException;
public class DatabaseConnection {

    Class.forName("oracle.jdbc.driver.OracleDriver");

    Connection connection1 =DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "DBMS",
"DBMS");

        String sql = "INSERT INTO MENU VALUES (?, ?, ?, ?, ?)";

        PreparedStatement pstmt = connection1.prepareStatement(sql);

        pstmt.setInt(1, v1);

        pstmt.setString(2, v2);

        pstmt.setInt(3, v3);

        pstmt.setInt(4, v4);

        pstmt.setInt(5, v5);

        int rowsInserted = pstmt.executeUpdate();}

```

## **CUSTOMER :**

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class DatabaseConnection {

    Class.forName("oracle.jdbc.driver.OracleDriver");

    Connection connection1 = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe",
"DBMS", "DBMS");

    String sql = "INSERT INTO CUSTOMER(CNAME,CPHONE) VALUES (?, ?)";

        PreparedStatement pstmt = connection1.prepareStatement(sql);

        pstmt.setString(1,name);

        pstmt.setString(2, phone);

        int rowsInserted = pstmt.executeUpdate();
    }
```

## **BILL SUMMARY:**

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class DatabaseConnection {

String fetchSql = "SELECT CNAME, CPHONE, CBILL FROM CUSTOMER WHERE CNAME=? AND
CPHONE=?";

Connection connection2 = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe", "DBMS",
"DBMS");

        PreparedStatement fetchStmt = connection2.prepareStatement(fetchSql);

        fetchStmt.setString(1, name);

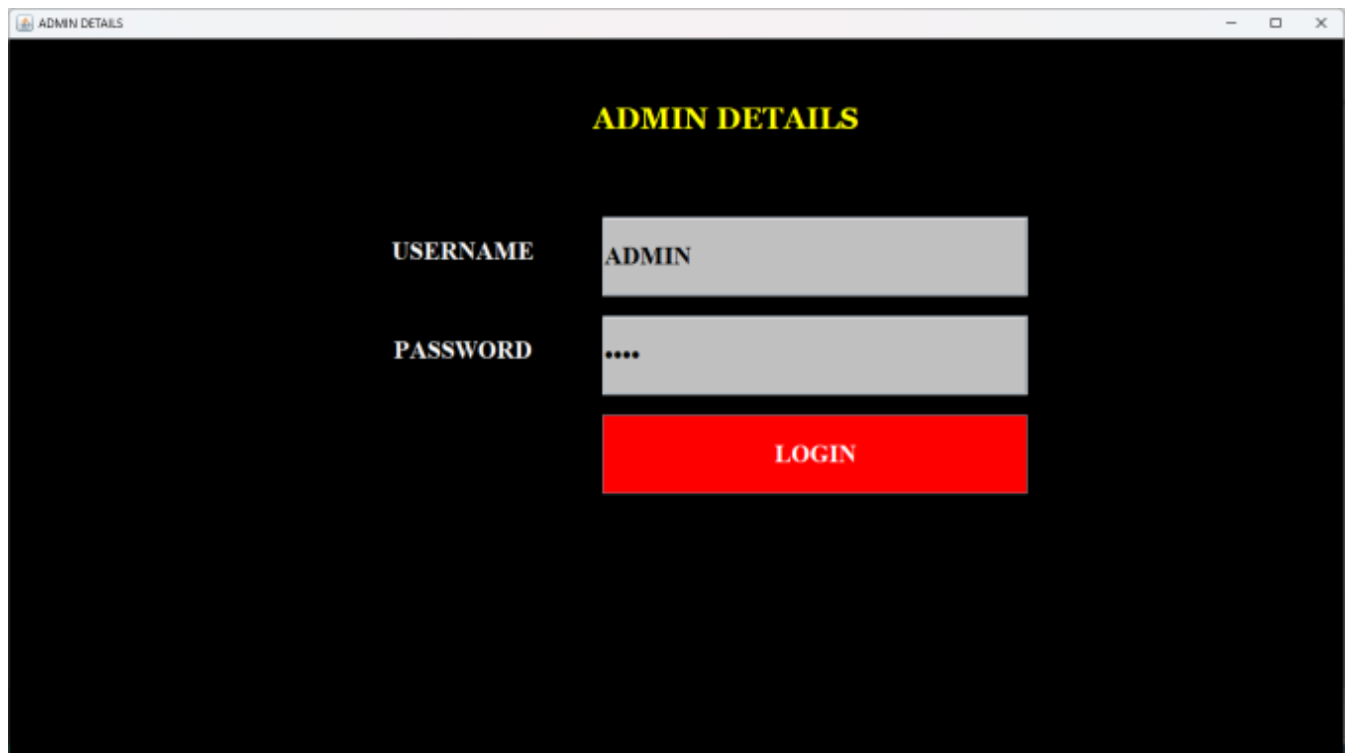
        fetchStmt.setString(2, phone);

        ResultSet rsFetch = fetchStmt.executeQuery();
    }
```

## MAIN FRAME



## ADMIN DETAILS:

The screenshot shows a web application window titled "ADMIN DETAILS". The background is dark. At the top center, the text "ADMIN DETAILS" is written in a bold, yellow, sans-serif font. Below this, there are two labels, "USERNAME" and "PASSWORD", in a white, sans-serif font. To the right of "USERNAME" is a light gray input field containing the text "ADMIN". To the right of "PASSWORD" is a light gray input field containing four black dots. Below these two input fields is a red button with the word "LOGIN" in white, sans-serif font.



INSERTION TAB

**YOU ARE LOGIN SUCCESSFULL!**  
----- **NOW YOU CAN UPDATE YOUR MENU** -----

ENTER ITEM ID: 21

ENTER ITEM NAME: PANEER PIZZA

ENTER ITEM SINGLE COST: 239

ENTER ITEM DOUBLE COST: 449

ENTER ITEM MANDI COST: 579

**INSERT**

**INSERTED SUCCESSFULLY**

## CUSTOMER DETAILS:

CUSTOMER DETAILS

**CUSTOMER DETAILS**

ENTER YOUR NAME Govardhan

ENTER PHONE NUMBER 8397663365

**SUBMIT**

**LOGIN SUCCESS!!**

MENU DETAILS

**SELECT YOUR MENU**

ITEM ID	ITEM NAME	SINGLE COST	DOUBLE COST	HAND COST
1	DUM BIRYANI	159	349	649
2	FRY BIRYANI	219	399	669
3	MUTTON BIRYANI	259	499	819
4	EGG BIRYANI	159	299	599
5	VEG BIRYANI	129	229	399
6	PRAWNS BIRYANI	299	499	849
7	BIRYANI RICE	99	199	349
8	BUTTER CHICKEN	199	399	729

ENTER ITEM ID: 3

ENTER PACK(SC,DC,MC): MC

ENTER QUANTITY: 2

BILL

BILL SUMMARY

**BILL SUMMARY**

**NAME:** Govardhan

**PHONE:** 8397663365

**ITEM ORDERED:** MUTTON BIRYANI

**BILL:** 1638

**THANK YOU VISIT AGAIN!**

## MENU SQL TABLE:

SQL Plus

SQL> SELECT \* FROM MENU ORDER BY IID;

IID	INAME	SC	DC	MC
1	DUM BIRYANI	199	349	649
2	FRY BIRYANI	219	369	669
3	MUTTON BIRYANI	259	469	819
4	EGG BIRYANI	159	299	599
5	VEG BIRYANI	129	229	399
6	PRAWNS BIRYANI	299	459	849
7	BIRYANI RICE	99	199	349
8	BUTTER CHICKEN	199	399	729
9	MUSHROOM BIRYANI	199	349	599
10	GONGURA BIRYANI	199	349	569
11	JEEDI PAPPU BIRYANI	265	469	769
12	DELHI BIRYANI	345	545	745
13	CHICKEN MANCHURIA	129	259	459
14	EGG MANCHURIA	129	249	449
15	GRAVY MANCHURIA	89	169	249
16	PANEER MANCHURIA	119	229	449
17	PANEER MANCHURIA WITH GRAVY	129	229	349
18	VEG MANCHURIA WITH CHEESE	149	249	549
19	CHICKEN MANCHURIA GRAVY	129	239	459
20	CHICKEN MANCHURIA - CHEESE	149	249	469
21	PANEER PIZZA	239	449	579

21 rows selected.

## CUSTOMER SQL TABLE:

SQL> SELECT \* FROM CUSTOMER;

CNAME	CPHONE	CBILL
GOVARDHAN	9014407137	1876
JOSHIKA	8978885442	1396
BHARGAV	9392415479	897
GAYATHRI	9705731010	199
DINESH K	9347663365	447

SQL> |