

# **LOVELY PROFESSIONAL UNIVERSITY**

## **School of Computer Science and Engineering**



### **Your Business Assistant**

#### **Final Report**

**By**

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I convey thanks to my project guide **Ms. Amarinder Kaur**, of Computer Science and Engineering Department for providing encouragement, constant support and guidance which was of a great help to complete this project successfully.

Last but not the least, we wish to thank our **parents** for financing our studies in this college as well as for constantly encouraging us to learn engineering. Their personal sacrifice in providing this opportunity to learn engineering is gratefully acknowledged.

# ABSTRACT

**Your Business Assistant:** Your Business Assistant System Project in Java is a desktop application that provides an efficient way to manage employee records using a graphical user interface (GUI) based on the Swing module.

The system is built to store and manage employee data in a MySQL database, which is a widely used relational database management system. This enables users to quickly and easily retrieve and update employee records.

The Employee Management System provides a user-friendly interface that allows users to add new employees, update existing employee records, delete employees, and view employee details. Additionally, it allows users to generate reports and manage employee attendance.

Overall, This System Project in Java is a comprehensive and practical tool for managing employee records in a business or organizational setting.

## ROLE AND RESPONSIBILITY

| Name and Registration Number | Role and Responsibility  |
|------------------------------|--|
| Balaganesh A<br>(12212102)   | GUI design and responsible for the pre submission report.  |
| Sowmya M<br>(12200074)       | Researching relevant modules and learning how to code them. Responsible for the operation of one section of the code/program. Planning, code review, and bug testing are indeed part of the process. |
| Sri Nithish V<br>(12202887)  | Responsible for the manage the data in data base and Managing team members and setting meeting times and dates Reviews the submission reports  |

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# **1. Introduction**

Your Business Assistant System Project in Java is a desktop application project that aims to develop a GUI-based program that will manage employee data and it was implemented using Java programming language and will utilize the Swing package to create a graphical user interface (GUI) for the program. MySQL will be used as the database management system to store employee data.

It is a desktop application that can be used by organizations to manage employee data efficiently. This section gives a scope description and overview of Everything included in this Project Report. Also, the purpose for this document is described and system overview along with goal and vision are listed.

## **1.1. Purpose**

The Main purpose of the Your Business Assistant is to provide an easy-to-use and efficient solution for managing employee data. It will automate many of the manual processes involved in managing employee records, reducing the workload on administrators and increasing efficiency. Overall, the purpose of this project is to provide an efficient and user-friendly solution for managing employee data.

## **1.2. System Overview**

Your Business Assistant will be implemented using Java programming language and MySQL as the database management system.

1. The program will utilize the Swing package to create a graphical user interface for the application and it will have two main user roles - administrators and employees. Administrators will have access to all the functionalities of the program, while employees will only be able to view their own records.
2. The system will have a login feature that will allow administrators to log in and access the system. Once logged in, administrators will be able to view all employee records, create new employee records, update employee details, and delete employee records.
3. The system will have a database that will store all employee records. The database will be designed using MySQL, and it will have tables to store employee details such as name, address, phone number, email, date of birth, and job title.
4. The system will also have a feature to save data to the database, ensuring that all employee records are stored securely. The program will validate all data entered by the user, ensuring that only valid data is saved to the database.

Overall, the system will provide an efficient and user-friendly solution for managing employee data. It will automate many of the manual processes involved in managing employee records, reducing the workload on administrators and increasing efficiency.

### **1.3. Problem Statement**

The problem statement that the Your Business Assistant Project in Java aims to solve is the inefficient management of employee records in organizations. The traditional methods of managing employee records, such as paper-based records and spreadsheets, can be time-consuming and prone to errors. These manual processes can lead to delays in accessing employee records, errors in updating employee information, and difficulty in generating reports.

Moreover, the security and privacy of employee records can be compromised when using manual methods. The Your Business Assistant Project in Java aims to provide a solution to these problems by automating the management of employee records. The system will provide an easy-to-use graphical user interface that will allow administrators to manage employee data efficiently.

The program will also validate all data entered by the user, ensuring that only valid data is saved to the database. This will reduce errors and ensure the accuracy of employee records. The system will also provide a secure and centralized database to store employee records, ensuring the privacy and security of employee data. Overall, the project aims to provide an efficient and user-friendly solution for managing employee data, reducing errors, and increasing efficiency.



## **1.4. Goal & Vision**

The goal of the Your Business Assistant Project in Java is to develop a user-friendly, efficient, and secure desktop application that enables administrators to manage employee data easily. The project aims to provide an automated solution for managing employee records, reducing workload, and increasing efficiency, and enhancing the overall management of employee records in organizations.

This project envisions a future where organizations can easily and efficiently manage employee data, reducing delays, errors, and difficulties in generating reports, and improving the overall management of employee records.

## **1.5. Applications of Your Business Assistant:**

The Your Business Assistant Project in Java can be used in various applications, including:

- **Small and medium-sized businesses:** The project can be used in small and medium-sized businesses to manage employee records efficiently.
- **Human resources management:** The project can be used in human resources departments to manage employee records, including employee profiles, attendance records, and performance records.
- **Educational institutions:** The project can be used in educational institutions to manage employee records of staff, including faculty and administrative staff.

- **Government organizations:** The project can be used in government organizations to manage employee records of civil servants and other government employees.
- **Non-profit organizations:** The project can be used in non-profit organizations to manage employee records of volunteers, employees, and contractors.

Overall, the Employee Management System Project in Java can be used in any organization that needs to manage employee records efficiently, accurately, and securely. The system provides a user-friendly interface, automation of manual processes, and centralized storage of employee data, making it an ideal solution for managing employee records in various applications.

## 2. Objectives

The objectives of the Your Business Assistant To develop a user-friendly and efficient desktop application for managing employee data using Java and MySQL.

- To provide an automated solution for managing employee data, reducing the workload on administrators and increasing efficiency.
- To provide a secure and centralized database for storing employee records, ensuring the privacy and security of employee data.

- To enable administrators to perform various operations such as adding new employees, updating employee details, deleting employees, and viewing employee records.
- To validate all data entered by the user, ensuring that only valid data is saved to the database, reducing errors and ensuring accuracy.
- To provide a learning opportunity for intermediate-level programmers to enhance their coding skills by working on a real-world project.
- To improve the overall management of employee records in organizations, reducing delays, errors, and difficulty in generating reports.

## **2.1 Specification**

The specifications of the Employee Management System Project in Java are:

1. **Language:** The project will be developed using Java, which is a high-level, object-oriented programming language.
2. **IDE:** The recommended IDE for the project is IntelliJ Idea Professional, which is a popular and powerful IDE for Java development.
3. **Java version:** The recommended Java version for the project is Java SE 18.0.2.1, which is the latest version of Java as of September 2021.

4. **GUI:** The project will use the Swing package to create a graphical user interface for the application.
5. **Database:** The project will use MySQL as the database management system to store employee data.
6. **Functionality:** The application will provide the following functionality to administrators:
  - Login to the system
  - View all employees
  - Create a new employee
  - Edit an existing employee
  - Delete an employee
  - Save data
7. **Validation:** The application will validate all data entered by the user to ensure that only valid data is saved to the database, reducing errors and ensuring accuracy.
8. **Security:** The application will ensure the security and privacy of employee data by storing it in a centralized and secure database and requiring login credentials to access the system.
9. **Platform:** The application will be a desktop application and will run on Windows, Mac, and Linux operating systems.

### 3. Constraints & Assumptions

#### Constraints:

1. The project must be developed using Java programming language and the Swing package for the graphical user interface.

2. The project must use MySQL as the database management system.
3. The application must be developed for desktop use only and should run on Windows, Mac, and Linux operating systems.
4. The project should be developed within a limited time frame, considering the complexity of the project.
5. The application should be designed in such a way that it is user-friendly, easy to navigate, and efficient.

**Assumptions:**

1. The database schema and tables have already been created, and the project will focus on developing the application's user interface and logic.
2. The application will be used only by administrators with the necessary login credentials and permissions to access the system.
3. The application will be used in a single location, and there will be no need for data synchronization across multiple locations.
4. The application will be developed with the assumption that the user will have basic knowledge of using desktop applications.
5. The user will have a stable and reliable internet connection to access the MySQL database.

## 4. Code

### Connect:

```
import java.sql.*;
public class Connect
{
    Connection c;
    Statement s;
    public Connect()
    {
        try
        {
            Class.forName("com.mysql.cj.jdbc.Driver"); //registering driver class
            c=DriverManager.getConnection("jdbc:mysql:///ems","root","12122013"); //creating
            connection string
            s=c.createStatement(); //creating statement
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}
```

### Splash:

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

public class Splash extends JFrame implements ActionListener
{
    Splash()
    {
        //super("Your Business Assistant");
        ImageIcon i1=new ImageIcon(ClassLoader.getResource("Image/Splash.png"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);

        JLabel heading=new JLabel("YOUR BUSINESS ASSISTANT");
        heading.setBounds(100,60,800,60);
        heading.setFont(new Font("serif",Font.PLAIN,60));
        heading.setForeground(Color.black);
    }
}
```

```

heading.setBackground(new Color(255, 255, 255, 128));
heading.setOpaque(true);
image.add(heading);

JTextArea info = new JTextArea("\n  Indian women are increasingly contributing to small
businesses in the country. They are venturing into various fields, including handicrafts, textiles, beauty
products, and food. They are also breaking the gender barriers and stereotypes associated with the
business world.\n\n  Studies have shown that women-run small businesses have a positive impact on
society as socially responsible, with a greater focus on environmental sustainability and community
development.\n\n  Despite numerous challenges such as lack of financial and resource access and
struggle with managing finances, inventory, and customer data, they are determined to succeed. They
are utilizing technology and business management tools to improve their operations and compete
globally.\n\n  That's where \"Your Business Assistant\" comes in as a game-changing solution for
small business owners, particularly women entrepreneurs.");
info.setLineWrap(true);
info.setWrapStyleWord(true);
info.setAlignmentX(Component.CENTER_ALIGNMENT);
info.setFocusable(false);
info.setBounds(75,190,900,650);
info.setFont(new Font("Segoe UI ",Font.ITALIC,25));
info.setForeground(Color.black);
info.setBackground(new Color(255, 255, 255, 128));
info.setOpaque(true);
image.add(info);

JLabel love=new JLabel(" Made with Love");
love.setBounds(75,950,250,60);
love.setFont(new Font("Brush Script MT", Font.ITALIC, 40));
love.setForeground(Color.black);
love.setBackground(new Color(255, 255, 255, 128));
love.setOpaque(true);
image.add(love);

JButton clickhere=new JButton("Proceed to Grow with us");
clickhere.setBounds(1000,400,350,70);
clickhere.setBackground(new Color(155, 213, 170, 128));
clickhere.setForeground(Color.black);
clickhere.setFont(new Font("Brush Script MT", Font.ITALIC, 30));
clickhere.addActionListener(this);
clickhere.setLocation(620,950);
image.add(clickhere);

setSize(1920,1080);
setExtendedState(JFrame.MAXIMIZED_BOTH);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    setVisible(false);
    new Login();
}

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

```

# Login:

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

public class Login extends JFrame implements ActionListener
{
    int f=0;
    JTextField tfusername,tfpassword;
    Login()
    {
        ImageIcon i1=new ImageIcon(ClassLoader.getSystemResource("Image/Login.jpg"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);

        JLabel info=new JLabel(" Login with the Administrator Credentials");
        info.setBounds(520,250,750,60);
        info.setFont(new Font("serif",Font.BOLD,40));
        info.setForeground(Color.black);
        info.setBackground(new Color(255, 255, 255, 80));
        info.setOpaque(true);
        image.add(info);

        JLabel lblusername=new JLabel(" Username");
        lblusername.setBounds(600,400,150,60);
        lblusername.setFont(new Font("serif",Font.BOLD,30));
        lblusername.setForeground(Color.black);
        lblusername.setBackground(new Color(255, 255, 255, 80));
        lblusername.setOpaque(true);
        image.add(lblusername);

        tfusername=new JTextField();
        tfusername.setBounds(800,400,300,60);
        tfusername.setFont(new Font("Segoe UI light",Font.PLAIN,30));
        tfusername.setForeground(Color.black);
        tfusername.setBackground(new Color(255, 255, 255, 250));
        tfusername.setOpaque(true);
        image.add(tfusername);

        JLabel lblpassword=new JLabel(" Password");
        lblpassword.setBounds(600,500,150,60);
        lblpassword.setFont(new Font("serif",Font.BOLD,30));
        lblpassword.setForeground(Color.black);
        lblpassword.setBackground(new Color(255, 255, 255, 80));
        lblpassword.setOpaque(true);
```



```

        image.add(lblpassword);

        tfpassword=new JTextField();
        tfpassword.setBounds(800,500,300,60);
        tfpassword.setFont(new Font("Segoe UI light",Font.PLAIN,30));
        tfpassword.setForeground(Color.black);
        tfpassword.setBackground(new Color(255, 255, 255, 250));
        tfpassword.setOpaque(true);
        image.add(tfpassword);

        JButton login=new JButton("Login");
        login.setBounds(750,600,150,60);
        login.setBackground(new Color(255, 255, 255, 150));
        login.setForeground(Color.black);
        login.setFont(new Font("serif",Font.BOLD, 30));
        login.addActionListener(this);
        image.add(login);

        setSize(1920,1080);
        setExtendedState(JFrame.MAXIMIZED_BOTH);
        setUndecorated(true);
        setVisible(true);
    }

    public void actionPerformed(ActionEvent ae)
    {
        try
        {
            String Username=tfusername.getText();
            String Password=tfpassword.getText();
            Connect c=new Connect();
            String query="select * from login where username='"+Username+"' and
password='"+Password+"' ";
            ResultSet rs=c.s.executeQuery(query);
            if(rs.next())
            {
                setVisible(false);
                new Employee();
            }
            else
            {
                JOptionPane.showMessageDialog(null,"Invalid username or password");
                f++;
                if(f==3)
                    setVisible(false);
            }
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }

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

```

# Employee:

```
import javax.swing.*;

import java.awt.*;
import java.awt.event.*;

public class Employee extends JFrame implements ActionListener
{
    JButton add,update,view,remove,attendance,attendancer,backhome;
    Employee()
    {
        ImageIcon i1=new ImageIcon(ClassLoader.getResource("Image/Home.png"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);

        JLabel heading=new JLabel("Your Business Assistant");
        heading.setBounds(100,60,600,60);
        heading.setFont(new Font("serif",Font.PLAIN,60));
        heading.setForeground(Color.black);
        heading.setBackground(new Color(255, 255, 255, 150));
        heading.setOpaque(true);
        image.add(heading);

        JLabel heading2=new JLabel("Employee Management System");
        heading2.setBounds(100,150,600,60);
        heading2.setFont(new Font("serif",Font.PLAIN,40));
        heading2.setForeground(Color.black);
        heading2.setBackground(new Color(255, 255, 255, 150));
        heading2.setOpaque(true);
        image.add(heading2);

        add=new JButton("Add Employee");
        add.setBounds(1100,300,250,40);
        add.setBackground(new Color(255, 255, 255, 250));
        add.setForeground(Color.black);
        add.setFont(new Font("serif",Font.BOLD, 25));
        add.addActionListener(this);
        image.add(add);

        view=new JButton("View Employee");
        view.setBounds(1550,300,250,40);
        view.setBackground(new Color(255, 255, 255, 250));
        view.setForeground(Color.black);
        view.setFont(new Font("serif",Font.BOLD, 25));
        view.addActionListener(this);
        image.add(view);

        update=new JButton("Update Employee");
        update.setBounds(1100,400,250,40);
        update.setBackground(new Color(255, 255, 255, 250));
        update.setForeground(Color.black);
```

```

update.setFont(new Font("serif",Font.BOLD, 25));
update.addActionListener(this);
image.add(update);

remove=new JButton("Remove Employee");
remove.setBounds(1550,400,250,40);
remove.setBackground(new Color(255, 255, 255, 250));
remove.setForeground(Color.black);
remove.setFont(new Font("serif",Font.BOLD, 25));
remove.addActionListener(this);
image.add(remove);

attendance=new JButton("Attendance");
attendance.setBounds(1100,500,250,40);
attendance.setBackground(new Color(255, 255, 255, 250));
attendance.setForeground(Color.black);
attendance.setFont(new Font("serif",Font.BOLD, 25));
attendance.addActionListener(this);
image.add(attendance);

attendancer=new JButton("Attendance Records");
attendancer.setBounds(1550,500,250,40);
attendancer.setBackground(new Color(255, 255, 255, 250));
attendancer.setForeground(Color.black);
attendancer.setFont(new Font("serif",Font.BOLD, 25));
attendancer.addActionListener(this);
image.add(attendancer);

backhome=new JButton("Exit");
backhome.setBounds(1550,950,250,40);
backhome.setBackground(new Color(255, 255, 255, 200));
backhome.setForeground(Color.black);
backhome.setFont(new Font("serif",Font.BOLD, 30));
backhome.addActionListener(this);
image.add(backhome);

setSize(1920,1080);
setExtendedState(JFrame.MAXIMIZED_BOTH);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==add)
    {
        setVisible(false);
        new AddEmployee();
    }
    else if(ae.getSource()==view)
    {
        setVisible(false);
        new ViewEmployee();
    }
    else if(ae.getSource()==update)
    {
        setVisible(false);
        new ViewEmployee();
    }
    else if(ae.getSource()==attendance)

```

```

        {
            setVisible(false);
            new Attendance();
        }
        else if(ae.getSource()==attendancer)
        {
            setVisible(false);
            new AttendanceRecord();
        }
        else if(ae.getSource()==remove)
        {
            setVisible(false);
            new RemoveEmployee();
        }
        else
        {
            setVisible(false);
            System.exit(0);
        }
    }

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

```

## AttendanceRecord:

```

import javax.swing.*.*;
import java.awt.*.*;
import java.sql.*;
import net.proteanit.sql.DbUtils;
import java.awt.event.*;

public class AttendanceRecord extends JFrame implements ActionListener
{
    JTable table;
    Choice employeeid;
    JButton search,print,update,back,backhome;

    AttendanceRecord()
    {
        ImageIcon i1=new ImageIcon(ClassLoader.getResource("Image/Employee.png"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);

        JLabel heading=new JLabel("Your Business Assistant");
    }
}

```

```

heading.setBounds(100,60,600,60);
heading.setFont(new Font("serif",Font.PLAIN,60));
heading.setForeground(Color.black);
heading.setBackground(new Color(255, 255, 255, 150));
heading.setOpaque(true);
image.add(heading);

JLabel heading2=new JLabel("Attendance Records");
heading2.setBounds(100,150,600,60);
heading2.setFont(new Font("serif",Font.PLAIN,40));
heading2.setForeground(Color.black);
heading2.setBackground(new Color(255, 255, 255, 150));
heading2.setOpaque(true);
image.add(heading2);

JLabel searchlbl=new JLabel("Search by Employee ID");
searchlbl.setBounds(100,300,250,40);
searchlbl.setBackground(new Color(255, 255, 255, 250));
searchlbl.setForeground(Color.black);
searchlbl.setFont(new Font("serif",Font.BOLD, 25));
image.add(searchlbl);

employeeid=new Choice();
employeeid.setBounds(100,360,150,20);
image.add(employeeid);

try
{
    Connect c=new Connect();
    ResultSet rs=c.s.executeQuery("select * from employee");

    while(rs.next())
    {
        employeeid.add(rs.getString("id"));
    }
}
catch(Exception e)
{
    e.printStackTrace();
}

table=new JTable();
try
{
    Connect c=new Connect();
    ResultSet rs=c.s.executeQuery("select * from attendance");
    table.setModel(DbUtils.resultSetToTableModel(rs));
}
catch(Exception e)
{
    e.printStackTrace();
}

search=new JButton("Search");
search.setBounds(100,400,250,40);
search.setBackground(new Color(255, 255, 255, 250));
search.setForeground(Color.black);
search.setFont(new Font("serif",Font.BOLD, 25));
search.addActionListener(this);
image.add(search);

```

```

print=new JButton("Print");
print.setBounds(700,400,250,40);
print.setBackground(new Color(255, 255, 255, 250));
print.setForeground(Color.black);
print.setFont(new Font("serif",Font.BOLD, 25));
print.addActionListener(this);
image.add(print);

back=new JButton("Employee page");
back.setBounds(1000,400,250,40);
back.setBackground(new Color(255, 255, 255, 200));
back.setForeground(Color.black);
back.setFont(new Font("serif",Font.BOLD, 30));
back.addActionListener(this);
image.add(back);

backhome=new JButton("Exit");
backhome.setBounds(1400,400,250,40);
backhome.setBackground(new Color(255, 255, 255, 200));
backhome.setForeground(Color.black);
backhome.setFont(new Font("serif",Font.BOLD, 30));
backhome.addActionListener(this);
image.add(backhome);

JScrollPane jsp=new JScrollPane(table);
jsp.setBounds(20,500,1880,500);
image.add(jsp);

setSize(1920,1080);
setExtendedState(JFrame.MAXIMIZED_BOTH);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==search)
    {
        String query="select * from attendance where id= '"+employeeid.getSelectedItem()+" ";
        try
        {
            Connect c=new Connect();
            ResultSet rs=c.s.executeQuery(query);
            table.setModel(DbUtils.resultSetToTableModel(rs));
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
    else if(ae.getSource()==print)
    {
        try
        {
            table.print();
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}

```

```

    }
    }
    else if(ae.getSource() == back)
    {
        setVisible(false);
        new Employee();
    }
    else
    {
        setVisible(false);
        System.exit(0);
    }
}

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

```

## ViewEmployee:

```

import javax.swing.*.*;
import java.awt.*.*;
import java.sql.*;
import net.proteanit.sql.DbUtils;
import java.awt.event.*;

public class ViewEmployee extends JFrame implements ActionListener
{
    JTable table;
    Choice employeeid;
    JButton search, print, update, back, backhome;

    ViewEmployee()
    {
        ImageIcon i1 = new ImageIcon(ClassLoader.getResource("Image/Employee.png"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);

        JLabel heading = new JLabel("Your Business Assistant");
        heading.setBounds(100, 60, 600, 60);
        heading.setFont(new Font("serif", Font.PLAIN, 60));
        heading.setForeground(Color.black);
        heading.setBackground(new Color(255, 255, 255, 150));
        heading.setOpaque(true);
        image.add(heading);
    }
}

```

```

JLabel heading2=new JLabel("Employee Management");
heading2.setBounds(100,150,600,60);
heading2.setFont(new Font("serif",Font.PLAIN,40));
heading2.setForeground(Color.black);
heading2.setBackground(new Color(255, 255, 255, 150));
heading2.setOpaque(true);
image.add(heading2);

JLabel searchlbl=new JLabel("Search by Employee ID");
searchlbl.setBounds(100,300,250,40);
searchlbl.setBackground(new Color(255, 255, 255, 250));
searchlbl.setForeground(Color.black);
searchlbl.setFont(new Font("serif",Font.BOLD, 25));
image.add(searchlbl);

employeeid=new Choice();
employeeid.setBounds(100,360,150,20);
image.add(employeeid);

try
{
    Connect c=new Connect();
    ResultSet rs=c.s.executeQuery("select * from employee");

    while(rs.next())
    {
        employeeid.add(rs.getString("id"));
    }
}
catch(Exception e)
{
    e.printStackTrace();
}

table=new JTable();
table.setBackground(new Color(255, 255, 255, 120));
table.setForeground(Color.black);
table.setOpaque(true);
try
{
    Connect c=new Connect();
    ResultSet rs=c.s.executeQuery("select * from employee");
    table.setModel(DbUtils.resultSetToTableModel(rs));
}
catch(Exception e)
{
    e.printStackTrace();
}

search=new JButton("Search");
search.setBounds(100,400,250,40);
search.setBackground(new Color(255, 255, 255, 250));
search.setForeground(Color.black);
search.setFont(new Font("serif",Font.BOLD, 25));
search.addActionListener(this);
image.add(search);

update=new JButton("Update");
update.setBounds(400,400,250,40);
update.setBackground(new Color(255, 255, 255, 250));

```



```

update.setForeground(Color.black);
update.setFont(new Font("serif",Font.BOLD, 25));
update.addActionListener(this);
image.add(update);

print=new JButton("Print");
print.setBounds(700,400,250,40);
print.setBackground(new Color(255, 255, 255, 250));
print.setForeground(Color.black);
print.setFont(new Font("serif",Font.BOLD, 25));
print.addActionListener(this);
image.add(print);

back=new JButton("Employee page");
back.setBounds(1000,400,250,40);
back.setBackground(new Color(255, 255, 255, 200));
back.setForeground(Color.black);
back.setFont(new Font("serif",Font.BOLD, 30));
back.addActionListener(this);
image.add(back);

backhome=new JButton("Exit");
backhome.setBounds(1400,400,250,40);
backhome.setBackground(new Color(255, 255, 255, 200));
backhome.setForeground(Color.black);
backhome.setFont(new Font("serif",Font.BOLD, 30));
backhome.addActionListener(this);
image.add(backhome);

JScrollPane jsp=new JScrollPane(table);
jsp.setBounds(20,500,1880,500);
image.add(jsp);

setSize(1920,1080);
setExtendedState(JFrame.MAXIMIZED_BOTH);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==search)
    {
        String query="select * from employee where id= '"+employeeid.getSelectedItemAt()+" ";
        try
        {
            Connect c=new Connect();
            ResultSet rs=c.s.executeQuery(query);
            table.setModel(DbUtils.resultSetToTableModel(rs));
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
    else if(ae.getSource()==print)
    {
        try
        {
            table.print();

```

```

    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
}
else if(ae.getSource()==update)
{
    setVisible(false);
    new UpdateEmployee(employeeid.getSelectedItemAt());
}
else if(ae.getSource()==back)
{
    setVisible(false);
    new Employee();
}
else
{
    setVisible(false);
    System.exit(0);
}
}

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

```

## Attendance:

```

import javax.swing.*.*;
import java.awt.*.*;
import java.sql.*.*;
import java.awt.event.*.*;
import java.time.*.*;

public class Attendance extends JFrame implements ActionListener
{
    JTable table;
    Choice att,id;
    JButton submit,print,back,backhome;
    Attendance()
    {
        ImageIcon i1=new ImageIcon(ClassLoader.getResource("Image/download.jpg"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);
    }
}

```

```

JLabel heading=new JLabel("Your Business Assistant");
heading.setBounds(100,60,600,60);
heading.setFont(new Font("serif",Font.PLAIN,60));
heading.setForeground(Color.black);
heading.setBackground(new Color(255, 255, 255, 150));
heading.setOpaque(true);
image.add(heading);

JLabel heading2=new JLabel("Employee Attendance");
heading2.setBounds(100,150,600,60);
heading2.setFont(new Font("serif",Font.PLAIN,40));
heading2.setForeground(Color.black);
heading2.setBackground(new Color(255, 255, 255, 150));
heading2.setOpaque(true);
image.add(heading2);

JLabel labelempid=new JLabel("Employee ID");
labelempid.setBounds(479,300,200,40);
labelempid.setFont(new Font("serif",Font.BOLD,30));
labelempid.setForeground(Color.black);
labelempid.setBackground(new Color(255, 255, 255, 200));
labelempid.setOpaque(true);
image.add(labelempid);

id=new Choice();
id.setBounds(680,300,150,40);
image.add(id);

try
{
    Connect c=new Connect();
    String query="select * from employee";
    ResultSet rs=c.s.executeQuery(query);
    while(rs.next())
        id.add(rs.getString("id"));
}
catch(Exception e)
{
    e.printStackTrace();
}

JLabel labelname=new JLabel(" Name");
labelname.setBounds(100,400,150,40);
labelname.setFont(new Font("serif",Font.BOLD,30));
labelname.setForeground(Color.black);
labelname.setBackground(new Color(255, 255, 255, 200));
labelname.setOpaque(true);
image.add(labelname);

JLabel tfname=new JLabel();
tfname.setBounds(300,400,300,40);
tfname.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfname.setForeground(Color.black);
tfname.setBackground(new Color(255, 255, 255, 250));
tfname.setOpaque(true);
image.add(tfname);

JLabel date=new JLabel("Date");
date.setBounds(700,400,150,40);
date.setFont(new Font("serif",Font.BOLD,30));

```

```

date.setForeground(Color.black);
date.setBackground(new Color(255, 255, 255, 200));
date.setOpaque(true);
image.add(date);

LocalDate today=LocalDate.now();
JLabel tfdate=new JLabel(today.toString());
tfdate.setBounds(900,400,300,40);
tfdate.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfdate.setForeground(Color.black);
tfdate.setBackground(new Color(255, 255, 255, 250));
tfdate.setOpaque(true);
image.add(tfdate);

JLabel Att=new JLabel("Attendance");
Att.setBounds(100,500,150,40);
Att.setSize(150,40);
Att.setFont(new Font("serif",Font.BOLD,30));
Att.setForeground(Color.black);
Att.setBackground(new Color(255, 255, 255, 200));
Att.setOpaque(true);
image.add(Att);

att=new Choice();
att.setBounds(300,500,100,60);
att.add("Present");
att.add("Absent");
image.add(att);

try
{
    Connect c=new Connect();
    String query="select name from employee where id= '"+id.getSelectedItem()+"' ";
    ResultSet rs=c.s.executeQuery(query);
    while(rs.next())
        tfname.setText(rs.getString("name"));
}
catch(Exception e)
{
    e.printStackTrace();
}

id.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent ie)
    {
        try
        {
            Connect c=new Connect();
            String query="select name from employee where id= '"+id.getSelectedItem()+"' ";
            ResultSet rs=c.s.executeQuery(query);
            while(rs.next())
                tfname.setText(rs.getString("name"));
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
});

```

```

submit=new JButton("Submit");
submit.setBounds(535,800,270,40);
submit.setBackground(new Color(255, 255, 255, 200));
submit.setForeground(Color.black);
submit.setFont(new Font("serif",Font.BOLD, 30));
submit.addActionListener(this);
image.add(submit);

back=new JButton("Employee page");
back.setBounds(400,900,250,40);
back.setBackground(new Color(255, 255, 255, 200));
back.setForeground(Color.black);
back.setFont(new Font("serif",Font.BOLD, 30));
back.addActionListener(this);
image.add(back);

backhome=new JButton("Exit");
backhome.setBounds(700,900,250,40);
backhome.setBackground(new Color(255, 255, 255, 200));
backhome.setForeground(Color.black);
backhome.setFont(new Font("serif",Font.BOLD, 30));
backhome.addActionListener(this);
image.add(backhome);

setSize(1920,1080);
setExtendedState(JFrame.MAXIMIZED_BOTH);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==submit)
    {
        String cid=id.getSelectedItemAt();
        String d=LocalDate.now().toString();
        String atte=att.getSelectedItemAt();
        try
        {
            Connect c=new Connect();
            String query="insert into attendance(date,id,att) values('"+d+"','"+cid+"','"+atte+"')";
            c.s.executeUpdate(query);
            JOptionPane.showMessageDialog(null,"Attendance marked successfully.");
            setVisible(false);
            new Employee();
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
    else if(ae.getSource()==print)
    {
        try
        {
            table.print();
        }
        catch(Exception e)
        {

```

```

        e.printStackTrace();
    }
}
else if(ae.getSource()==back)
{
    setVisible(false);
    new Employee();
}
else
{
    setVisible(false);
    System.exit(0);
}
}

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

```

## AddEmployee:

```

import javax.swing.*.*;
import java.awt.*.*;
import java.awt.event.*;
import com.toedter.calendar.JDateChooser;
import java.util.*;

public class AddEmployee extends JFrame implements ActionListener
{
    JTextField tfname,tfadd,tfph,tfpos,tfsal,tfdoj;
    JDateChooser dcdoj;
    JLabel empid;
    JButton add,back,backhome;

    Random ran=new Random();
    int number=ran.nextInt(999);
    AddEmployee()
    {
        ImageIcon i1=new ImageIcon(ClassLoader.getResource("Image/download.jpg"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);

        JLabel heading=new JLabel("Your Business Assistant");
        heading.setBounds(100,60,600,60);
        heading.setFont(new Font("serif",Font.PLAIN,60));
        heading.setForeground(Color.black);
    }
}

```

```

heading.setBackground(new Color(255, 255, 255, 150));
heading.setOpaque(true);
image.add(heading);

JLabel heading2=new JLabel("Add Employee");
heading2.setBounds(100,150,600,60);
heading2.setFont(new Font("serif",Font.PLAIN,40));
heading2.setForeground(Color.black);
heading2.setBackground(new Color(255, 255, 255, 150));
heading2.setOpaque(true);
image.add(heading2);

JLabel labelname=new JLabel(" Name");
labelname.setBounds(100,400,150,40);
labelname.setFont(new Font("serif",Font.BOLD,30));
labelname.setForeground(Color.black);
labelname.setBackground(new Color(255, 255, 255, 200));
labelname.setOpaque(true);
image.add(labelname);

tfname=new JTextField();
tfname.setBounds(300,400,300,40);
tfname.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfname.setForeground(Color.black);
tfname.setBackground(new Color(255, 255, 255, 250));
tfname.setOpaque(true);
image.add(tfname);

JLabel labeladd=new JLabel(" Address");
labeladd.setBounds(700,400,150,40);
labeladd.setFont(new Font("serif",Font.BOLD,30));
labeladd.setForeground(Color.black);
labeladd.setBackground(new Color(255, 255, 255, 200));
labeladd.setOpaque(true);
image.add(labeladd);

tfadd=new JTextField();
tfadd.setBounds(900,400,300,40);
tfadd.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfadd.setForeground(Color.black);
tfadd.setBackground(new Color(255, 255, 255, 250));
tfadd.setOpaque(true);
image.add(tfadd);

JLabel labelph=new JLabel(" Ph no.");
labelph.setBounds(100,500,150,40);
labelph.setFont(new Font("serif",Font.BOLD,30));
labelph.setForeground(Color.black);
labelph.setBackground(new Color(255, 255, 255, 200));
labelph.setOpaque(true);
image.add(labelph);

tfph=new JTextField();
tfph.setBounds(300,500,300,40);
tfph.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfph.setForeground(Color.black);
tfph.setBackground(new Color(255, 255, 255, 250));
tfph.setOpaque(true);
image.add(tfph);

```

```

JLabel labelpos=new JLabel(" Job");
labelpos.setBounds(700,500,150,40);
labelpos.setFont(new Font("serif",Font.BOLD,30));
labelpos.setForeground(Color.black);
labelpos.setBackground(new Color(255, 255, 255, 200));
labelpos.setOpaque(true);
image.add(labelpos);

tfpos=new JTextField();
tfpos.setBounds(900,500,300,40);
tfpos.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfpos.setForeground(Color.black);
tfpos.setBackground(new Color(255, 255, 255, 250));
tfpos.setOpaque(true);
image.add(tfpos);

JLabel labelsal=new JLabel(" Salary");
labelsal.setBounds(100,600,150,40);
labelsal.setFont(new Font("serif",Font.BOLD,30));
labelsal.setForeground(Color.black);
labelsal.setBackground(new Color(255, 255, 255, 200));
labelsal.setOpaque(true);
image.add(labelsal);

tfsal=new JTextField();
tfsal.setBounds(300,600,300,40);
tfsal.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfsal.setForeground(Color.black);
tfsal.setBackground(new Color(255, 255, 255, 250));
tfsal.setOpaque(true);
image.add(tfsal);

JLabel labeldoj=new JLabel(" Join date");
labeldoj.setBounds(700,600,150,40);
labeldoj.setFont(new Font("serif",Font.BOLD,30));
labeldoj.setForeground(Color.black);
labeldoj.setBackground(new Color(255, 255, 255, 200));
labeldoj.setOpaque(true);
image.add(labeldoj);

dcdoj=new JDateChooser();
dcdoj.setBounds(900,600,300,40);
image.add(dcdoj);

JLabel labelempid=new JLabel(" Employee ID");
labelempid.setBounds(479,300,200,40);
labelempid.setFont(new Font("serif",Font.BOLD,30));
labelempid.setForeground(Color.black);
labelempid.setBackground(new Color(255, 255, 255, 200));
labelempid.setOpaque(true);
image.add(labelempid);

empid=new JLabel(" "+number);
empid.setBounds(680,300,150,40);
empid.setFont(new Font("serif",Font.BOLD,30));
empid.setForeground(Color.black);
empid.setBackground(Color.white);
empid.setOpaque(true);
image.add(empid);

```



```

add=new JButton("Add Details");
add.setBounds(535,800,250,40);
add.setBackground(new Color(255, 255, 255, 200));
heading.setOpaque(true);
add.setForeground(Color.black);
add.setFont(new Font("serif",Font.BOLD, 30));
add.addActionListener(this);
image.add(add);

back=new JButton("Employee page");
back.setBounds(400,900,250,40);
back.setBackground(new Color(255, 255, 255, 200));
heading.setOpaque(true);
back.setForeground(Color.black);
back.setFont(new Font("serif",Font.BOLD, 30));
back.addActionListener(this);
image.add(back);

backhome=new JButton("Exit");
backhome.setBounds(700,900,250,40);
backhome.setBackground(new Color(255, 255, 255, 200));
heading.setOpaque(true);
backhome.setForeground(Color.black);
backhome.setFont(new Font("serif",Font.BOLD, 30));
backhome.addActionListener(this);
image.add(backhome);

setSize(1920,1080);
setExtendedState(JFrame.MAXIMIZED_BOTH);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==add)
    {
        String name=tfname.getText();
        String address=tfadd.getText();
        String phno=tfph.getText();
        String job=tfpos.getText();
        String sal=tfsal.getText();
        String doj=((JTextField)dcdoj.getDateEditor().getUiComponent()).getText();
        String id=empid.getText();

        try
        {
            Connect c=new Connect();
            String query="insert into employee values('"+name+"', '"+address+"',
            '"+phno+"', '"+job+"', '"+sal+"', '"+doj+"', '"+id+"')";
            c.s.executeUpdate(query);
            JOptionPane.showMessageDialog(null,"Details added successfully.");
            setVisible(false);
            new Employee();
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}

```

```

    }
    else if(ae.getSource()==backhome)
    {
        setVisible(false);
        System.exit(0);
    }
    else
    {
        setVisible(false);
        new Employee();
    }
}

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

```

## UpdateEmployee:

```

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

public class UpdateEmployee extends JFrame implements ActionListener
{
    JTextField tfadd,tfph,tfpos,tfsal;
    JLabel empid;
    JButton update,back,backhome;
    String EmpID;
    UpdateEmployee(String EmpID)
    {
        this.EmpID=EmpID;
        ImageIcon i1=new ImageIcon(ClassLoader.getResource("Image/download.jpg"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);

        JLabel heading=new JLabel("Your Business Assistant");
        heading.setBounds(100,60,600,60);
        heading.setFont(new Font("serif",Font.PLAIN,60));
        heading.setForeground(Color.black);
        heading.setBackground(new Color(255, 255, 255, 150));
        heading.setOpaque(true);
        image.add(heading);

        JLabel heading2=new JLabel("Update Employee");
    }
}

```

```

heading2.setBounds(100,150,600,60);
heading2.setFont(new Font("serif",Font.PLAIN,40));
heading2.setForeground(Color.black);
heading2.setBackground(new Color(255, 255, 255, 150));
heading2.setOpaque(true);
image.add(heading2);

JLabel labelname=new JLabel(" Name");
labelname.setBounds(100,400,150,40);
labelname.setFont(new Font("serif",Font.BOLD,30));
labelname.setForeground(Color.black);
labelname.setBackground(new Color(255, 255, 255, 200));
labelname.setOpaque(true);
image.add(labelname);

JLabel tfname=new JLabel();
tfname.setBounds(300,400,300,40);
tfname.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfname.setForeground(Color.black);
tfname.setBackground(new Color(255, 255, 255, 250));
tfname.setOpaque(true);
image.add(tfname);

JLabel labeladd=new JLabel(" Address");
labeladd.setBounds(700,400,150,40);
labeladd.setFont(new Font("serif",Font.BOLD,30));
labeladd.setForeground(Color.black);
labeladd.setBackground(new Color(255, 255, 255, 200));
labeladd.setOpaque(true);
image.add(labeladd);

tfadd=new JTextField();
tfadd.setBounds(900,400,300,40);
tfadd.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfadd.setForeground(Color.black);
tfadd.setBackground(new Color(255, 255, 255, 250));
tfadd.setOpaque(true);
image.add(tfadd);

JLabel labelph=new JLabel(" Ph no.");
labelph.setBounds(100,500,150,40);
labelph.setFont(new Font("serif",Font.BOLD,30));
labelph.setForeground(Color.black);
labelph.setBackground(new Color(255, 255, 255, 200));
labelph.setOpaque(true);
image.add(labelph);

tfph=new JTextField();
tfph.setBounds(300,500,300,40);
tfph.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfph.setForeground(Color.black);
tfph.setBackground(new Color(255, 255, 255, 250));
tfph.setOpaque(true);
image.add(tfph);

JLabel labelpos=new JLabel(" Job");
labelpos.setBounds(700,500,150,40);
labelpos.setFont(new Font("serif",Font.BOLD,30));
labelpos.setForeground(Color.black);
labelpos.setBackground(new Color(255, 255, 255, 200));

```

```

labelpos.setOpaque(true);
image.add(labelpos);

tfpos=new JTextField();
tfpos.setBounds(900,500,300,40);
tfpos.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfpos.setForeground(Color.black);
tfpos.setBackground(new Color(255, 255, 255, 250));
tfpos.setOpaque(true);
image.add(tfpos);

JLabel labelsal=new JLabel(" Salary");
labelsal.setBounds(100,600,150,40);
labelsal.setFont(new Font("serif",Font.BOLD,30));
labelsal.setForeground(Color.black);
labelsal.setBackground(new Color(255, 255, 255, 200));
labelsal.setOpaque(true);
image.add(labelsal);

tfsal=new JTextField();
tfsal.setBounds(300,600,300,40);
tfsal.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfsal.setForeground(Color.black);
tfsal.setBackground(new Color(255, 255, 255, 250));
tfsal.setOpaque(true);
image.add(tfsal);

JLabel labeldoj=new JLabel(" Join date");
labeldoj.setBounds(700,600,150,40);
labeldoj.setFont(new Font("serif",Font.BOLD,30));
labeldoj.setForeground(Color.black);
labeldoj.setBackground(new Color(255, 255, 255, 200));
labeldoj.setOpaque(true);
image.add(labeldoj);

JLabel dcdoj=new JLabel();
dcdoj.setBounds(900,600,150,40);
dcdoj.setFont(new Font("serif",Font.BOLD,30));
dcdoj.setForeground(Color.black);
dcdoj.setBackground(new Color(255, 255, 255, 200));
dcdoj.setOpaque(true);
image.add(dcdoj);

JLabel labelempid=new JLabel(" Employee ID");
labelempid.setBounds(479,300,200,40);
labelempid.setFont(new Font("serif",Font.BOLD,30));
labelempid.setForeground(Color.black);
labelempid.setBackground(new Color(255, 255, 255, 200));
labelempid.setOpaque(true);
image.add(labelempid);

empid=new JLabel(EmpID);
empid.setBounds(680,300,150,40);
empid.setFont(new Font("serif",Font.BOLD,30));
empid.setForeground(Color.black);
empid.setBackground(Color.white);
empid.setOpaque(true);
image.add(empid);

try

```

```

{
    Connect c=new Connect();
    String query="select * from employee where id = '"+EmpID+"' ";
    ResultSet rs=c.s.executeQuery(query);
    while(rs.next())
    {
        tfname.setText(rs.getString("name"));
        dcdoj.setText(rs.getString("doj"));
        tfadd.setText(rs.getString("address"));
        tfph.setText(rs.getString("phno"));
        tfpos.setText(rs.getString("job"));
        tfsal.setText(rs.getString("salary"));
        tfadd.setText(rs.getString("address"));
    }
}
catch(Exception e)
{
    e.printStackTrace();
}

update=new JButton("Update Details");
update.setBounds(535,800,250,40);
update.setBackground(new Color(255, 255, 255, 200));
update.setForeground(Color.black);
update.setFont(new Font("serif",Font.BOLD, 30));
update.addActionListener(this);
image.add(update);

back=new JButton("Employee page");
back.setBounds(400,900,250,40);
back.setBackground(new Color(255, 255, 255, 200));
back.setForeground(Color.black);
back.setFont(new Font("serif",Font.BOLD, 30));
back.addActionListener(this);
image.add(back);

backhome=new JButton("Exit");
backhome.setBounds(700,900,250,40);
backhome.setBackground(new Color(255, 255, 255, 200));
backhome.setForeground(Color.black);
backhome.setFont(new Font("serif",Font.BOLD, 30));
backhome.addActionListener(this);
image.add(backhome);

setSize(1920,1080);
setExtendedState(JFrame.MAXIMIZED_BOTH);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==update)
    {
        String address=tfadd.getText();
        String phno=tfph.getText();
        String job=tfpos.getText();
        String sal=tfsal.getText();
        try
        {

```

```

        Connect c=new Connect();
        String query="update employee set address='"+address+"',
phno='"+phno+"',job='"+job+"',salary='"+sal+"' where id='"+EmpID+"'";
        c.s.executeUpdate(query);
        JOptionPane.showMessageDialog(null,"Details updated successfully.");
        setVisible(false);
        new Employee();
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }

}
else if(ae.getSource()==backhome)
{
    setVisible(false);
    System.exit(0);
}
else
{
    setVisible(false);
    new Employee();
}
}

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

```

## RemoveEmployee:

```

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

public class RemoveEmployee extends JFrame implements ActionListener
{
    Choice cempid;
    JButton remove,back,backhome;
    RemoveEmployee()
    {
        ImageIcon i1=new ImageIcon(ClassLoader.getResource("Image/download.jpg"));
        Image i2 = i1.getImage().getScaledInstance(
            Toolkit.getDefaultToolkit().getScreenSize().width,
            Toolkit.getDefaultToolkit().getScreenSize().height,
            Image.SCALE_SMOOTH
        );
        JLabel image = new JLabel(new ImageIcon(i2));
        Dimension screenSize = getToolkit().getScreenSize();
        image.setSize(screenSize.width, screenSize.height);
        getContentPane().add(image);
    }
}

```

```

JLabel heading=new JLabel("Your Business Assistant");
heading.setBounds(100,60,600,60);
heading.setFont(new Font("serif",Font.PLAIN,60));
heading.setForeground(Color.black);
heading.setBackground(new Color(255, 255, 255, 150));
heading.setOpaque(true);
image.add(heading);

JLabel heading2=new JLabel("Remove Employee");
heading2.setBounds(100,150,600,60);
heading2.setFont(new Font("serif",Font.PLAIN,40));
heading2.setForeground(Color.black);
heading2.setBackground(new Color(255, 255, 255, 150));
heading2.setOpaque(true);
image.add(heading2);

JLabel labelempid=new JLabel("Employee ID");
labelempid.setBounds(479,300,200,40);
labelempid.setFont(new Font("serif",Font.BOLD,30));
labelempid.setForeground(Color.black);
labelempid.setBackground(new Color(255, 255, 255, 200));
labelempid.setOpaque(true);
image.add(labelempid);

cempid=new Choice();
cempid.setBounds(680,300,150,60);
image.add(cempid);

try
{
    Connect c=new Connect();
    String query="select * from employee";
    ResultSet rs=c.s.executeQuery(query);
    while(rs.next())
        cempid.add(rs.getString("id"));
}
catch(Exception e)
{
    e.printStackTrace();
}

JLabel labelname=new JLabel(" Name");
labelname.setBounds(100,400,150,40);
labelname.setFont(new Font("serif",Font.BOLD,30));
labelname.setForeground(Color.black);
labelname.setBackground(new Color(255, 255, 255, 200));
labelname.setOpaque(true);
image.add(labelname);

JLabel tfname=new JLabel();
tfname.setBounds(300,400,300,40);
tfname.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfname.setForeground(Color.black);
tfname.setBackground(new Color(255, 255, 255, 250));
tfname.setOpaque(true);
image.add(tfname);

JLabel labeladd=new JLabel(" Address");
labeladd.setBounds(700,400,150,40);

```

```

labeladd.setFont(new Font("serif",Font.BOLD,30));
labeladd.setForeground(Color.black);
labeladd.setBackground(new Color(255, 255, 255, 200));
labeladd.setOpaque(true);
image.add(labeladd);

JLabel tfadd=new JLabel();
tfadd.setBounds(900,400,300,40);
tfadd.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfadd.setForeground(Color.black);
tfadd.setBackground(new Color(255, 255, 255, 250));
tfadd.setOpaque(true);
image.add(tfadd);

JLabel labelph=new JLabel(" Ph no.");
labelph.setBounds(100,500,150,40);
labelph.setFont(new Font("serif",Font.BOLD,30));
labelph.setForeground(Color.black);
labelph.setBackground(new Color(255, 255, 255, 200));
labelph.setOpaque(true);
image.add(labelph);

JLabel tfph=new JLabel();
tfph.setBounds(300,500,300,40);
tfph.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfph.setForeground(Color.black);
tfph.setBackground(new Color(255, 255, 255, 250));
tfph.setOpaque(true);
image.add(tfph);

JLabel labelpos=new JLabel(" Job");
labelpos.setBounds(700,500,150,40);
labelpos.setFont(new Font("serif",Font.BOLD,30));
labelpos.setForeground(Color.black);
labelpos.setBackground(new Color(255, 255, 255, 200));
labelpos.setOpaque(true);
image.add(labelpos);

JLabel tfpos=new JLabel();
tfpos.setBounds(900,500,300,40);
tfpos.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfpos.setForeground(Color.black);
tfpos.setBackground(new Color(255, 255, 255, 250));
tfpos.setOpaque(true);
image.add(tfpos);

JLabel labelsal=new JLabel(" Salary");
labelsal.setBounds(100,600,150,40);
labelsal.setFont(new Font("serif",Font.BOLD,30));
labelsal.setForeground(Color.black);
labelsal.setBackground(new Color(255, 255, 255, 200));
labelsal.setOpaque(true);
image.add(labelsal);

JLabel tfsal=new JLabel();
tfsal.setBounds(300,600,300,40);
tfsal.setFont(new Font("Segoe UI light",Font.PLAIN,30));
tfsal.setForeground(Color.black);
tfsal.setBackground(new Color(255, 255, 255, 250));
tfsal.setOpaque(true);

```



```

image.add(tfsal);

JLabel labeldoj=new JLabel("Date of Joining");
labeldoj.setBounds(700,600,150,40);
labeldoj.setFont(new Font("serif",Font.BOLD,30));
labeldoj.setForeground(Color.black);
labeldoj.setBackground(new Color(255, 255, 255, 200));
labeldoj.setOpaque(true);
image.add(labeldoj);

JLabel dcdoj=new JLabel();
dcdoj.setBounds(900,600,300,40);
dcdoj.setFont(new Font("Segoe UI light",Font.PLAIN,30));
dcdoj.setForeground(Color.black);
dcdoj.setBackground(new Color(255, 255, 255, 200));
dcdoj.setOpaque(true);
image.add(dcdoj);

try
{
    Connect c=new Connect();
    String query="select * from employee where id= '"+cempid.getSelectedItemAt()+" ";
    ResultSet rs=c.s.executeQuery(query);
    while(rs.next())
    {
        tfname.setText(rs.getString("name"));
        tfadd.setText(rs.getString("address"));
        tfph.setText(rs.getString("phno"));
        tfpos.setText(rs.getString("job"));
        tfsal.setText(rs.getString("salary"));
        dcdoj.setText(rs.getString("doj"));
    }
}
catch(Exception e)
{
    e.printStackTrace();
}

cempid.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent ie)
    {
        try
        {
            Connect c=new Connect();
            String query="select * from employee where id= '"+cempid.getSelectedItemAt()+" ";
            ResultSet rs=c.s.executeQuery(query);
            while(rs.next())
            {
                tfname.setText(rs.getString("name"));
                tfadd.setText(rs.getString("address"));
                tfph.setText(rs.getString("phno"));
                tfpos.setText(rs.getString("job"));
                tfsal.setText(rs.getString("salary"));
                dcdoj.setText(rs.getString("doj"));
            }
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}

```

```

    }
}
});

remove=new JButton("Remove Employee");
remove.setBounds(535,800,270,40);
remove.setBackground(new Color(255, 255, 255, 200));
remove.setForeground(Color.black);
remove.setFont(new Font("serif",Font.BOLD, 30));
remove.addActionListener(this);
image.add(remove);

back=new JButton("Employee page");
back.setBounds(400,900,250,40);
back.setBackground(new Color(255, 255, 255, 200));
back.setForeground(Color.black);
back.setFont(new Font("serif",Font.BOLD, 30));
back.addActionListener(this);
image.add(back);

backhome=new JButton("Exit");
backhome.setBounds(700,900,250,40);
backhome.setBackground(new Color(255, 255, 255, 200));
backhome.setForeground(Color.black);
backhome.setFont(new Font("serif",Font.BOLD, 30));
backhome.addActionListener(this);
image.add(backhome);

setSize(1920,1080);
setExtendedState(JFrame.MAXIMIZED_BOTH);
setUndecorated(true);
setVisible(true);
}

public void actionPerformed(ActionEvent ae)
{
    if(ae.getSource()==remove)
    {
        try
        {
            Connect c=new Connect();
            String query="delete from employee where id= '"+cempid.getSelectedItem()+"' ";
            c.s.executeUpdate(query);
            JOptionPane.showMessageDialog(null,"Employee removed successfully.");
            setVisible(false);
            new Employee();
        }
        catch(Exception e)
        {
            e.printStackTrace();
        }
    }
    else if(ae.getSource()==backhome)
    {
        setVisible(false);
        System.exit(0);
    }
    else
    {

```

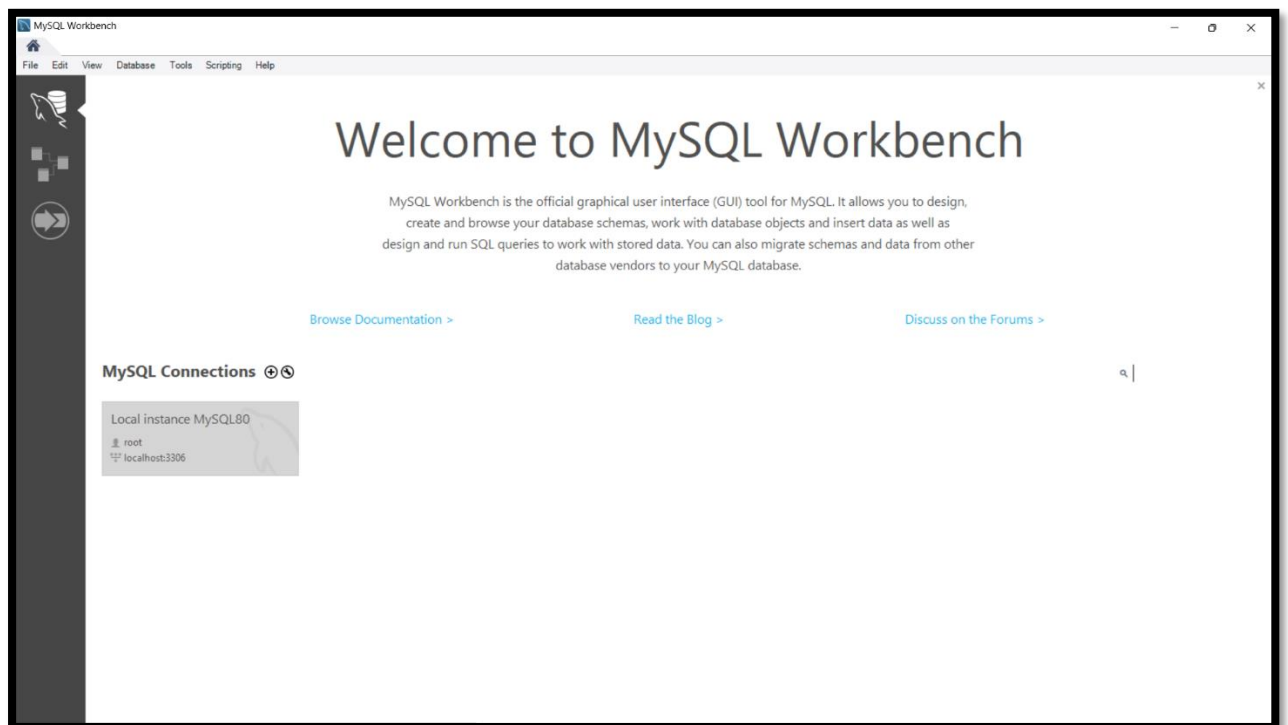
```
        setVisible(false);
        new Employee();
    }

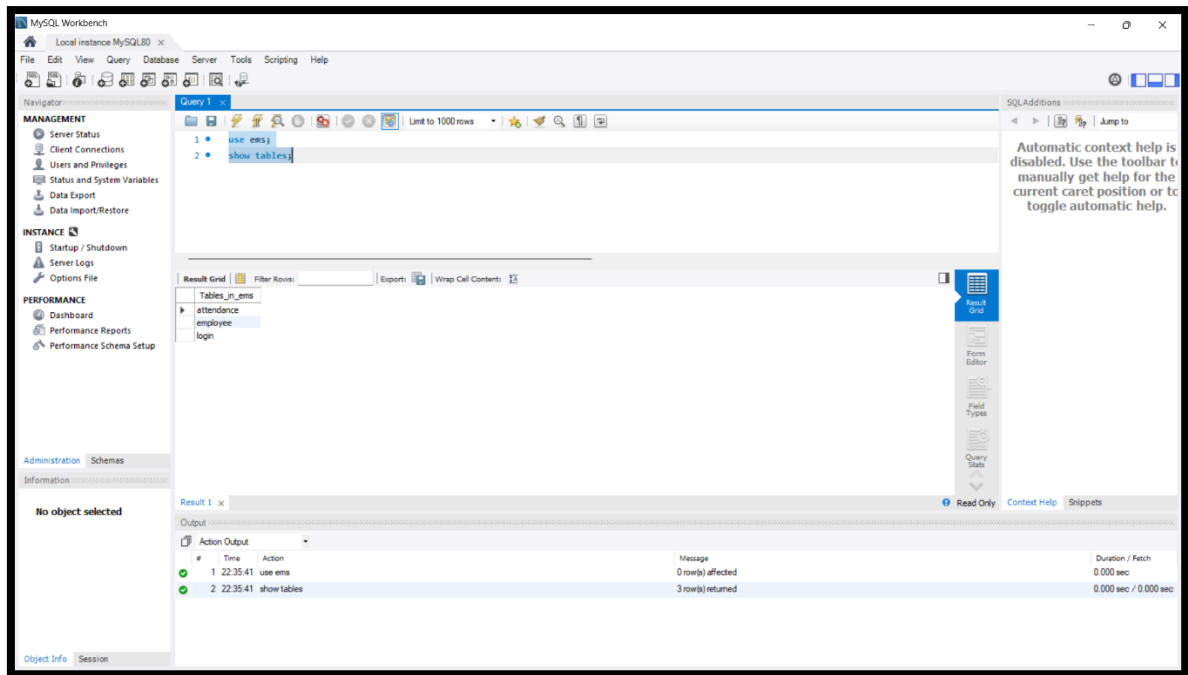
}

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

}
```

## SCREEN SHOTS:





MY SQL

## YOUR BUSINESS ASSISTANT

Indian women are increasingly contributing to small businesses in the country. They are venturing into various fields, including handicrafts, textiles, beauty products, and food. They are also breaking the gender barriers and stereotypes associated with the business world.


Studies have shown that women-run small businesses have a positive impact on society as socially responsible, with a greater focus on environmental sustainability and community development.

Despite numerous challenges such as lack of financial and resource access and struggle with managing finances, inventory, and customer data, they are determined to succeed. They are utilizing technology and business management tools to improve their operations and compete globally.

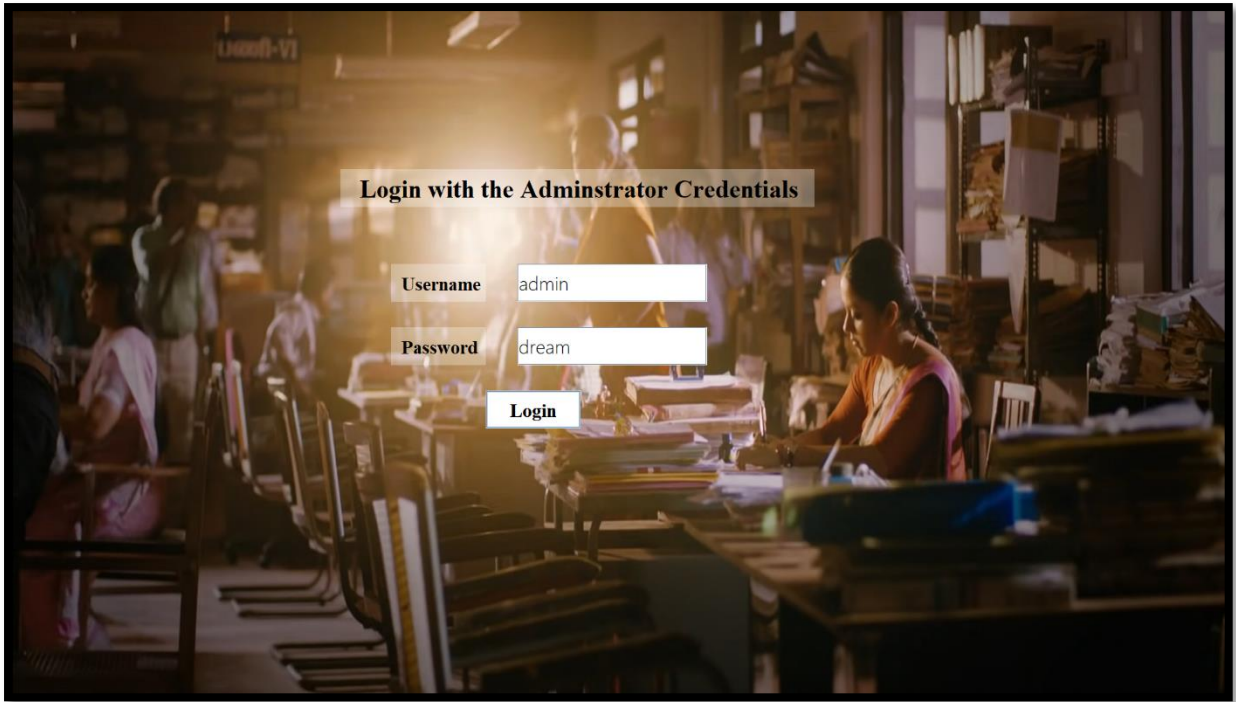
That's where "Your Business Assistant" comes in as a game-changing solution for small business owners, particularly women entrepreneurs.

Made with Love

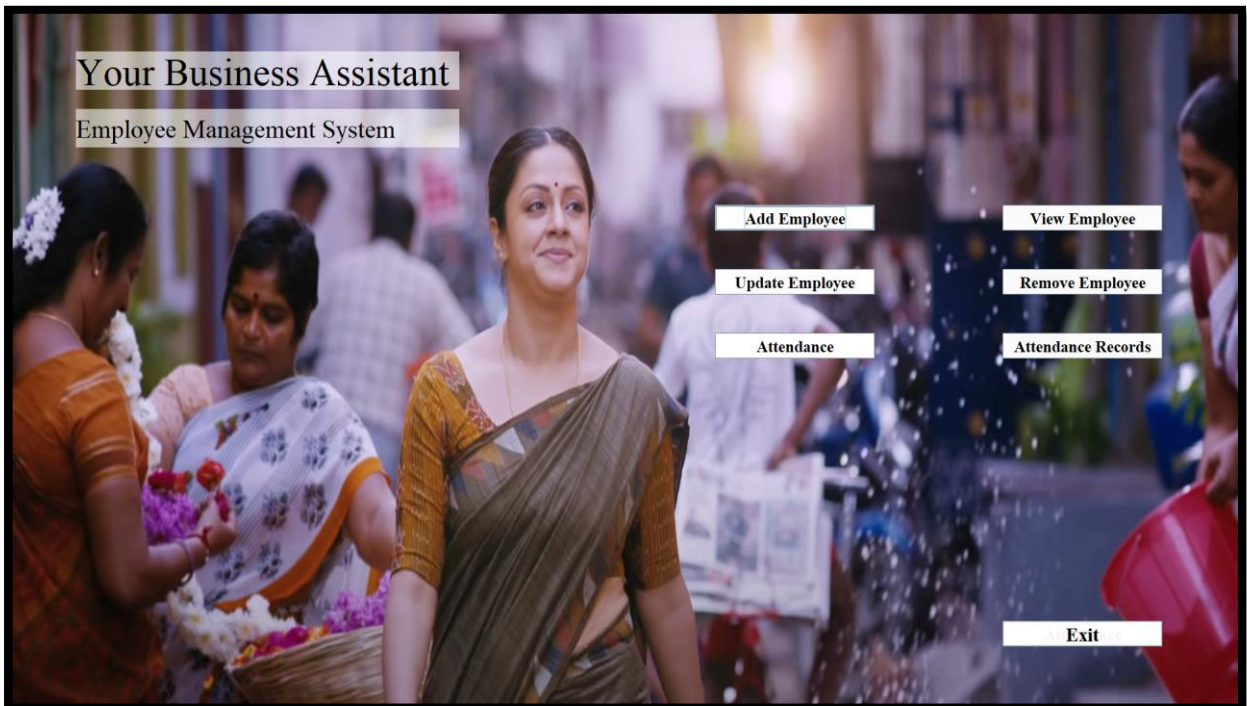
Proceed to Grow with us



Splash



*LOGIN PAGE*



*HOME PAGE*



**Your Business Assistant**

Add Employee

Employee ID 563

Name Sudhir Address Jodhpur, Rajasthan

Ph no. 6350559755 Job Marketing Intern

Salary 10000 Join date 15 Apr, 2023

Add Details

Employee page Exit

*ADD EMPLOYEE PAGE*

**Your Business Assistant**

Update Employee

Employee ID 740

Name sowmya Address pollachi 642003

Ph no. 6369006176 Job Marketing Intern

Salary 10000 Join date 25 Mar, 2023

Update Details

Employee page Exit

Message  
Details updated successfully.  
OK

*UPDATE EMPLOYEE PAGE*

**Your Business Assistant**

Remove Employee

Employee ID 740

Name  Address

Ph no.  Job

Salary  Join date

Remove Employee

Employee page Exit

*REMOVE EMPLOYEE PAGE*

**Your Business Assistant**

Employee Management

Search by Employee ID

740  
140  
101

| name   | address            | phno       | job               | salary | doj          | id  |
|--------|--------------------|------------|-------------------|--------|--------------|-----|
| sowmya | pollachi 642003    | 6369006176 | Software engineer | 10000  | 25 Mar, 2023 | 740 |
| Budhir | Jodhpur, Rajasthan | 6350550755 | Marketing Intern  | 10000  | 16 Apr, 2023 | 101 |

*EMPLOYEE DETAILS PAGE*



Your Business Assistant

Employee Attendance

Employee ID

101

Name

Sudhir

Date

2023-04-16

Attendance

Present

Submit

Employee page

Exit

EMPLOYEE ATTENDANCE PAGE

Your Business Assistant

Attendance Records

Search by Employee ID

740

740

101

Search

Print

Employee page

Exit

| date       | id  | att     |
|------------|-----|---------|
| 2023-03-26 | 740 | Absent  |
| 2023-03-27 | 740 | Absent  |
| 2023-04-16 | 740 | Present |
| 2023-04-16 | 101 | Present |
| 2023-04-16 | 101 | Present |
| 2023-04-16 | 840 | Present |
| 2023-04-16 | 740 | Present |

ATTENDANCE RECORD PAGE



## 5. **Conclusion**

In conclusion, Your Business Assistant Project in Java provides an excellent opportunity for students and developers to enhance their skills in programming, database management, and desktop application development.

By providing a modern and innovative solution for managing employee data, the project aims to improve efficiency and streamline employee data management in organizations.

## 6. **REFERENCES**

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<https://docs.oracle.com/javase/tutorial/uiswing/>

2. MySQL Documentation:

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4. JavaFX Documentation: <https://openjfx.io/documentation/>

5. Java GUI Programming Books:

- "Java Swing" by Marc Loy, Robert Eckstein, and Dave Wood
- "JavaFX 8: Introduction by Example" by Carl Dea, Mark Heckler, Gerrit Grunwald, José Pereda, and Sean Phillips
- "Java GUI Development" by A.P. Rajshekhar and T. Nagarajan