
DATABASE SYSTEMS SEMESTER PROJECT:

Group Members:

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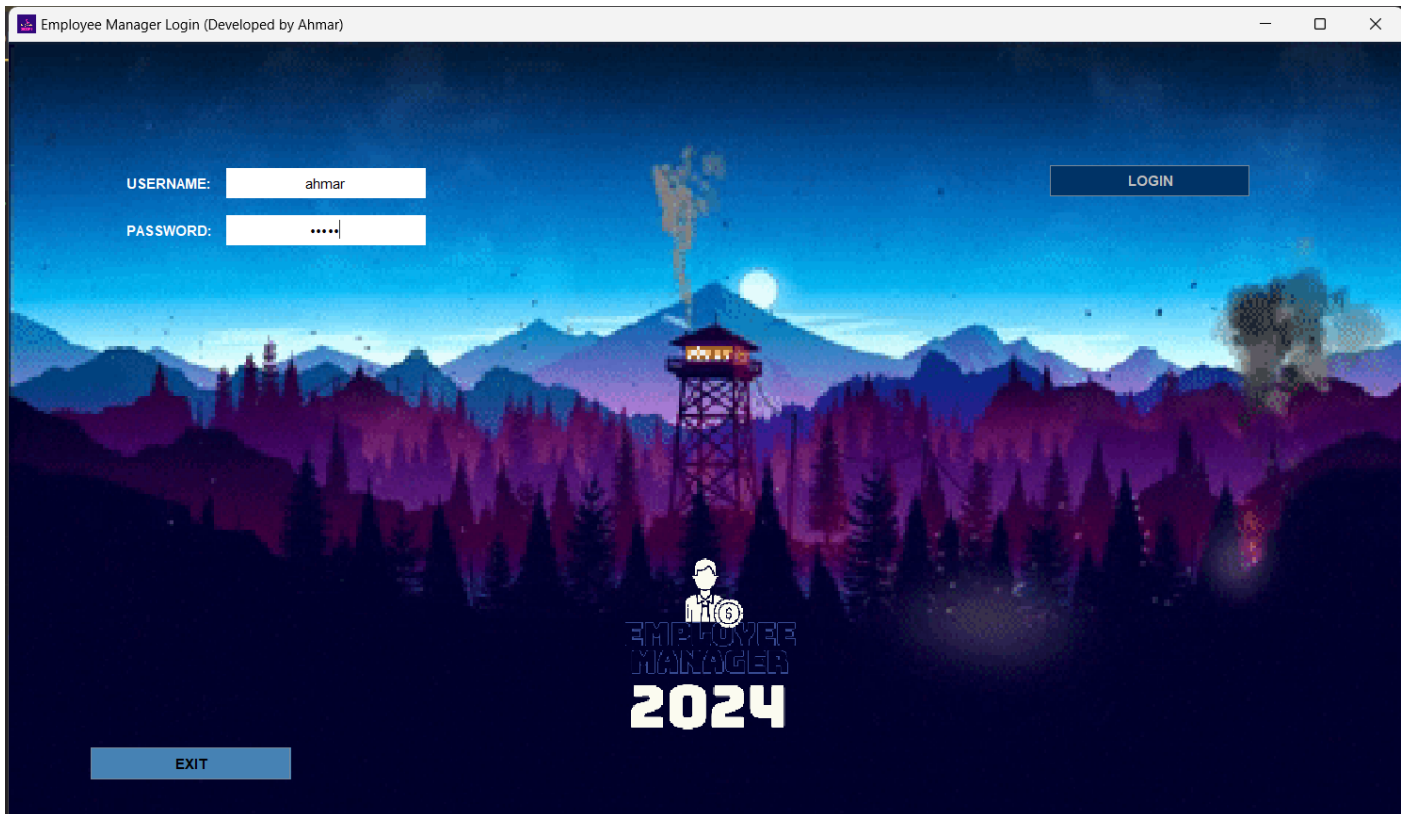
Class and Program: BSCSev – II – C

TITLE: EMPLOYEE MANAGER WITH JAVA & SQL

INTRODUCTION:

The goal is to develop a robust system that efficiently manages employee data within organizations. Leveraging Java and SQL, this project aims to streamline tasks such as adding new employees, editing details, and deleting records. By centralizing information and automating processes, the system aims to enhance efficiency and accuracy in personnel management, ultimately contributing to improved organizational effectiveness. Join me as I explore the development of an intuitive and efficient Employee Management System tailored to meet the needs of modern organizations.

LOGIN PAGE:



```
CREATE DATABASE employeeManager;
USE employeeManager;

CREATE TABLE login (
    username VARCHAR(25),
    password VARCHAR(30)
);

INSERT INTO login VALUES ("ahmar", "12345");
```

JAVA QUERY:

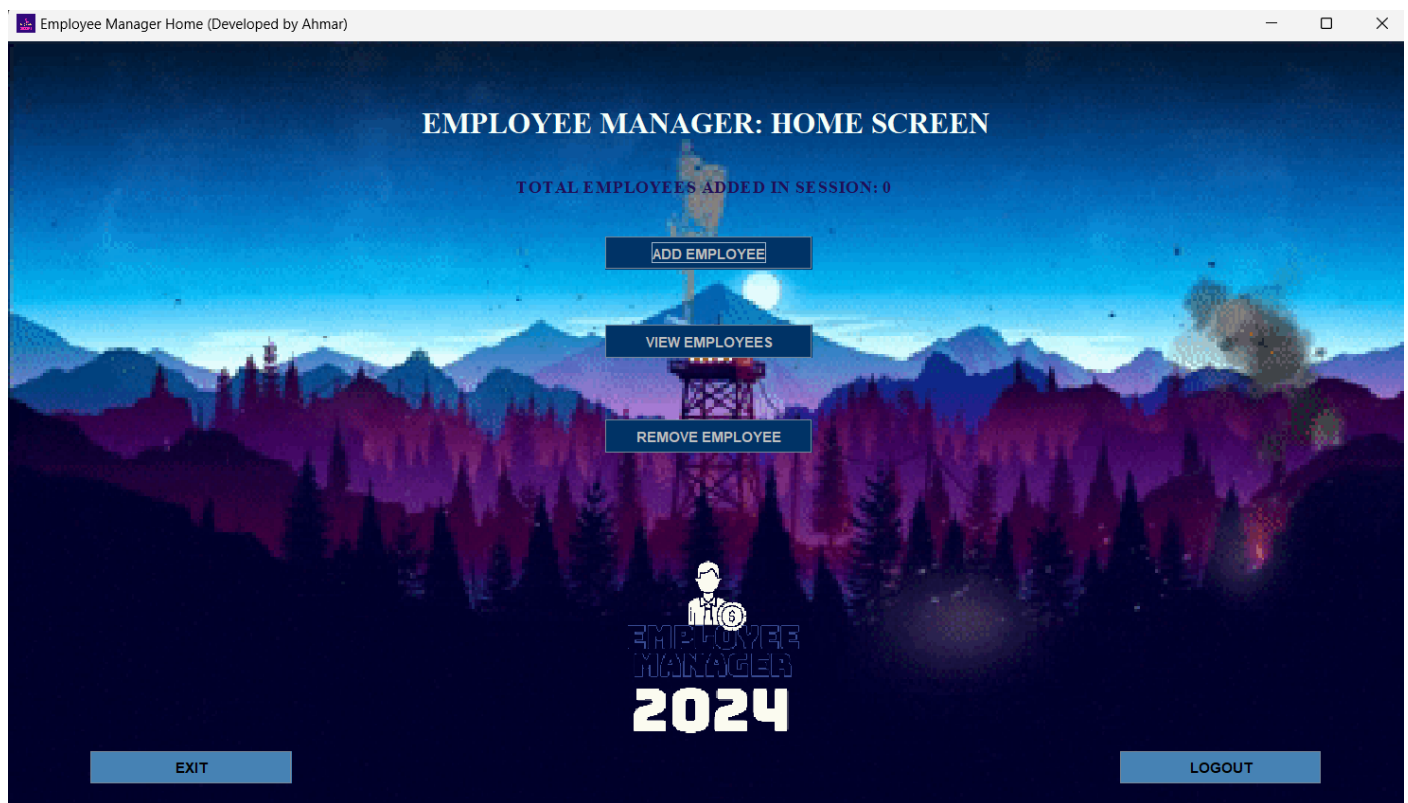
```
con = new conn();
query = "SELECT * FROM login WHERE username = '" + sUsername + "' AND password = '" + sPassword + "'";
result = con.statement.executeQuery(query);

if(result.next()) {
    setVisible(false);
    Home homeScreen = new Home();
```

- On the login page, the admin has to enter his username and password which is only saved in the database directly.

- *If the username and password match, the Home Page Opens.*

HOME PAGE:



- *The Home Page provides the main features of the Program.*
- *Each feature further leads to other options and features embedded within.*
- *All of these features are connected directly to the local database.*
- *The Home Page also shows the Total Number of Employees added in a single session.*

ADD EMPLOYEE PAGE:

Add Employee Portal (Developed by Ahmar)

ADD EMPLOYEE PORTAL

NAME: FATHER NAME:

PHONE: EMAIL:

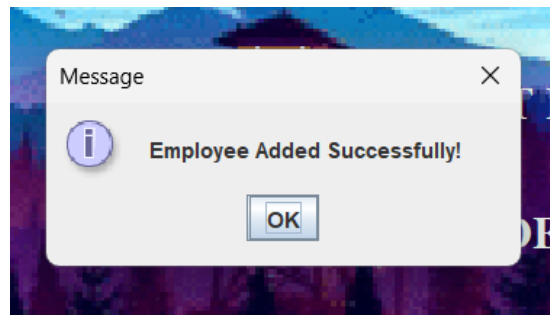
CNIC: HIGHEST EDUCATION:

SALARY: DESIGNATION:

ADDRESS: DATE OF BIRTH:

EMPLOYEE ID: 6671

EMPLOYEE MANAGER 2024



```

CREATE TABLE addEmployee (
CNIC VARCHAR(14) PRIMARY KEY NOT NULL,
Emp_ID VARCHAR(30),
Name VARCHAR(50),
Father_Name VARCHAR(50),
Date_Of_Birth VARCHAR(40),
Education VARCHAR(40),
Address VARCHAR(100),
Phone_Number VARCHAR(40),
Email VARCHAR(50),
Designation VARCHAR(30),
Salary VARCHAR(40)
);

-- Stored Procedure to Add Employee
DELIMITER //
CREATE PROCEDURE AddEmployeeProc (
IN p_CNIC VARCHAR(14),
IN p_Emp_ID VARCHAR(30),
IN p_Name VARCHAR(50),
IN p_Father_Name VARCHAR(50),
IN p_Date_Of_Birth VARCHAR(40),
IN p_Education VARCHAR(40),
IN p_Address VARCHAR(100),
IN p_Phone_Number VARCHAR(40),
IN p_Email VARCHAR(50),
IN p_Designation VARCHAR(30),
IN p_Salary VARCHAR(40)
)
BEGIN
INSERT INTO addEmployee (CNIC, Emp_ID, Name, Father_Name, Date_Of_Birth, Education, Address, Phone_Number, Email, Designation, Salary)
VALUES (p_CNIC, p_Emp_ID, p_Name, p_Father_Name, p_Date_Of_Birth, p_Education, p_Address, p_Phone_Number, p_Email, p_Designation, p_Salary);
END //
DELIMITER ;

```

Result Grid											Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
	CNIC	Emp_ID	Name	Father_Name	Date_Of_Birth	Education	Address	Phone_Number	Email	Designation	Salary			
▶	3740500000000	6671	ahmar muzaffar	muzaffar ali	Sep 16, 2005	BS CS	ISLAMABAD	03105165055	232475@students.au.edu.pk	Student	1000			
*	3740565420009	4368	Ahmar	Muzaffar Ali	Sep 16, 2005	BS CS	AU, Main Campus, E-9, Islamabad.	03105165055	ahmarhoonmein@gmail.com	Jr. Software Engg	105000			
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL			

JAVA CODE for ADDING EMPLOYEE with a Query:

```

connection = new conn();
query = "INSERT INTO addEmployee VALUES ('"+cnic+"', '"+id+"', '"+name+"', '"+fatherName+"', '"+dateOfBirth+"', '"+edu+"', '"+address+"', '"+phone+"', '"+email+"', '"+designation+"', '"+salary+"');";
System.out.println("SQL Query: " + query); // Print the SQL query
connection.statement.executeUpdate(query);
JOptionPane.showMessageDialog(null, "Employee Added Successfully!");
setVisible(false);

```

- The Add Employee Page provides the interface for the user to add his/her details to add an employee.
- This page adds an employee to the local database.

VIEW EMPLOYEES PAGE:

CNIC	Emp_ID	Name	Father_Name	Date_Of_Bi...	Education	Address	Phone_Nu...	Email	Designation	Salary
374050000...	6671	ahmar muz...	muzaffar ali	Sep 16, 2005	BS CS	ISLAMABAD	03105165055	232475@st...	Student	1000

- This page provides a search box for searching for employees through their CNIC (IDs) and displays all their details by fetching them from the local database.

JAVA QUERY:

```

query = "SELECT * FROM addEmployee WHERE cnic = '" + employeeChoice.getSelectedItemAt() + "'";

```

UPDATE EMPLOYEE PAGE:

Update Employee Details Portal (Developed by Ahmar)

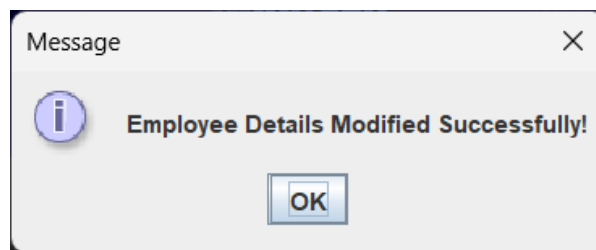
EDIT EMPLOYEE PORTAL

NAME:	ahmar muzaffar	FATHER NAME:	muzaffar ali
PHONE:	03105165055	EMAIL:	3@students.au.edu.pk
CNIC:	3740500000000	HIGHEST EDUCATION:	BS CS
SALARY:	1000	DESIGNATION:	Student
ADDRESS:	ISLAMABAD	DATE OF BIRTH:	Sep 16, 2005

EMPLOYEE ID: 6671

BACK CONFIRM DETAILS

THE POWER MANAGER 2024



JAVA QUERY:

```
connection2 = new conn();
query2 = "UPDATE addEmployee SET Father Name = '" + fatherName + "', Education = '" +
edu + "', Address = '" + address + "', Phone_Number = '" + phone + "', Email = '" +
email + "', Designation = '" + designation + "', Salary = '" + salary + "' WHERE CNIC =
'" + number + "';";
connection2.statement.executeUpdate(query2);
JOptionPane.showMessageDialog(null, "Employee Details Modified Successfully!");
setVisible(false);
```

- This page Modifies/edits the existing employee details in case of error while entering the details before.
- Note that this page only lets you edit some specific values.

REMOVE EMPLOYEE PAGE:

Employee ID:

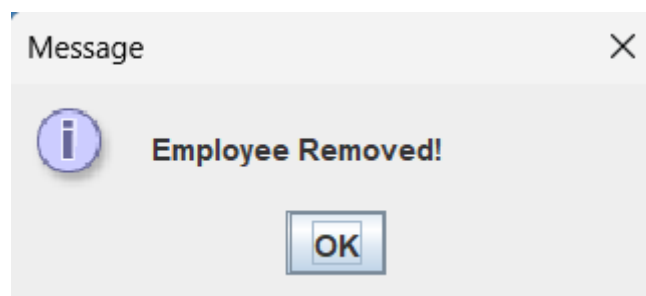
Employee Name: ahmar muzaffar

Phone Number: 03105165055

Email Address: 232475@students.au.e...

EMPLOYEE
MANAGER
2024

BACK Remove Employee



```
-- Stored Procedure to Delete Employee
DELIMITER //
CREATE PROCEDURE DeleteEmployeeProc (
    IN p_Emp_ID VARCHAR(30)
)
BEGIN
    DELETE FROM addEmployee WHERE Emp_ID = p_Emp_ID;
END //
DELIMITER ;
```

JAVA QUERY:

```
ncon = new conn();
query = "DELETE FROM addEmployee WHERE CNIC = '"+employeeChoice.getSelectedItemAt()+"'";
ncon.statement.executeUpdate(query);
JOptionPane.showMessageDialog( parentComponent: null, message: "Employee Removed!");
```

- *This page lets the admin select an employee via the search box with their CNIC ID and delete them from the local database.*
