# Employee Management System

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## 1. Intro

- -> An employee management system that allows for employee registration, login, update, and removal.
- ->Streamline employee management tasks and provide an efficient way to handle employee data.

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# **Project Features:**

**Employee Registration:** New employees can register with details like name, location, joining date, salary, and password.

**Employee Login:** Allows employees to log in using their ID and password.

**Update Details:** Employees can update their own details (name, location, salary) after logging in.

Remove Employee: Admin (Shilpi) can remove employees after logging in.

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## **Tech Stack**

**Frontend:** Not applicable (CLI-based application)

**Backend:** Python with PostgreSQL

**Database:** PostgreSQL

#### **User Interaction Flow**

 Admin Login: Provides options for updating and removing employees.

• **Employee Login:** Provides options for viewing and updating personal details.

New User: Registers and views own details.

```
from functions import EmployeeRegister, EmployeeLogin, EmployeeUpdate, EmployeeRemove
     def show main menu():
         print("Choose an option:")
         print("1. Admin Login")
         print("2. User Login")
         print("3. Register as New User")
     def show admin menu():
         print("Admin Menu:")
         print("1. Update Employee Details")
         print("2. Remove Employee")
14 def show user menu():
         print("User Menu:")
         print("1. View Your Details")
     def main():
         while True:
             show_main_menu()
             choice = int(input("Enter your choice: "))
             if choice == 1:
                 admin = EmployeeLogin()
                 if admin:
                     show admin menu()
                     admin_choice = int(input("Enter your choice: "))
                     if admin_choice == 1:
                         EmployeeUpdate()
                     elif admin choice == 2:
                         EmployeeRemove()
                         print("Invalid choice")
             elif choice == 2:
                 # User Login
                 user = EmployeeLogin()
                 if user:
                     show user menu()
                     user_choice = int(input("Enter your choice: "))
                     if user choice == 1:
                         print(user) # Display user details
                         print("Invalid choice")
             elif choice == 3:
                 # Register as New User
49
                 EmployeeRegister()
                 print("Registration successful. You can now login to view your details.")
                 print("Invalid choice")
54 if __name__ == "__main__":
         main()
```

```
cur = conn.cursor()
    cur.execute("INSERT INTO employee (name, location, doj, salary, password) VALUES (%s, %s, %s, %s, %s) RETURNING id;"
                (name, location, doj, salary, password))
    rows = cur.fetchall()
    print(f"Your employee ID is: {rows[0][0]}")
    conn.commit()
    conn.close()
def EmployeeLogin():
    id = int(input("Enter your ID: "))
    cur = conn.cursor()
    cur.execute("SELECT * FROM employee WHERE id = %s", (id,))
    rows = cur.fetchall()
    if not rows:
        print("User not found.")
        return None
    password = input("Enter your password: ")
    if password != rows[0][5]: # Assuming the sixth column (index 5) is the password
        print("Incorrect password")
        return None
    return rows [0] # Return the user details
def EmployeeUpdate():
    id = int(input("Enter your employee ID: "))
    cur = conn.cursor()
    cur.execute("SELECT * FROM employee WHERE id = %5", (id,))
    rows = cur.fetchall()
    1f not rows:
        print("Employee not found")
    password = input("Enter your current password: ")
    if password != rows[0][5]:
        print("Incorrect password")
    print("What would you like to update?")
    print("1. Name")
    print("2. Location")
    print("3. Salary")
    choice = int(input("Enter your choice (1/2/3): "))
    if choice == 1:
        new name = input("Enter new name: ")
        cur.execute("UPDATE employee SET name = %% WHERE 1d = %%", (new name, 1d))
    elif choice == 2:
        new location = input("Enter new location: ")
        cur.execute("UPDATE employee SET location = %s WHERE id = %s", (new_location, id))
    elif choice == 3:
        new salary = int(input("Enter new salary: "))
        cur.execute("UPDATE employee SET salary = %s WHERE id = %s", (new_salary, id))
```

doj = input("Enter your joining date (yyyy-mm-dd): ")
salary = int(input("Enter your salary: "))
password = input("Enter your password: ")

## **Functionalities**

Registration

Login

Update

Remove

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### **Code Output**

```
TERMINAL
    PROBLEMS 1 OUTPUT DEBUG CONSOLE
                                                                                                                    /≥/ python + ∨ Ш Ш ···
    PS C:\Users\lenovo\OneDrive\Documents\EmployeeMgmtSystem> python app.py
    <connection object at 0x00000163EF1E5AD0; dsn: 'user=postgres password=xxx dbname=EmployeeTable host=localhost', closed: 0>
    Choose an option:
    1. Admin Login
    2. User Login
    3. Register as New User
    Enter your choice:
PS C:\Users\lenovo\OneDrive\Documents\EmployeeMgmtSystem> python app.py
<connection object at 0x00000163EF1E5AD0; dsn: 'user=postgres password=xxx dbname=EmployeeTable host=localhost', closed: 0>
Choose an option:
1. Admin Login
2. User Login
3. Register as New User
Enter your choice: 1
Enter your ID: 1
Enter your password: Shilpi@123
Admin Menu:
1. Update Employee Details
2. Remove Employee
Enter your choice: 1
Enter your employee ID: 3
Enter your current password: Urusha@123
What would you like to update?
1. Name
2. Location
3. Salary
Enter your choice (1/2/3): 3
Enter new salary: 87000
Employee information updated successfully
Choose an option:
1. Admin Login
2. User Login
3. Register as New User
Enter your choice:
```

# Thank You