

## **Documentation for ABC Company Employee Management System**

### **Key Features**

- 1.Add Employee
- 2.Update Employee
- 3.Delet Employee
- 4.Search Employee
- 5.Serach Employee

### **Description of the Features**

#### **Add Employee**

User can add an employee by entering their name position, number and phone number. All the information will store in an employee list.

#### **Update Employee**

Updates an existing employee's information based on their name. If the employee is found, the user can update their position, number, and phone. Otherwise it prints not found.

#### **Delete Employee**

Deletes an employee from the list by name. If the employee is found, they are removed, and a success message is displayed.

#### **Display Employees**

Lists all employees currently in the system with their details name, position, number, and phone. If the list is empty, informs the user that no employees are available.

#### **Search an Employee**

Searches for an employee by their name. Displays the employee's information if found, or informs the user if no such employee exists.

#### **Exit**

Allows the user to exit the program.

### **Error Handling**

#### **Invalid Input**

Ensures that the user enters a valid integer for menu choices. Displays an error message if a non-numeric input is provided.

#### **Employee Not Found**

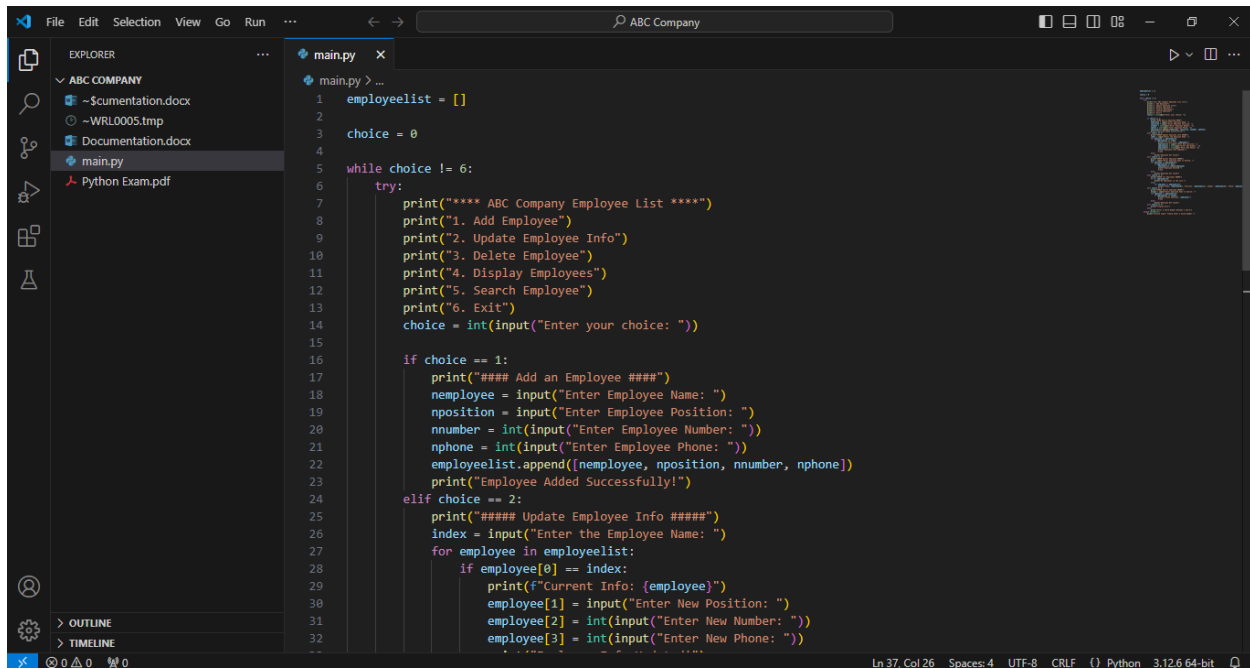
Informs the user when attempting to update, delete, or search for an employee who does not exist in the list.

## Empty List

Handles cases where operations (e.g., display, search, delete) are attempted on an empty list.

Screenshot of Output and Code

## Code



```
File Edit Selection View Go Run ...
ABC Company
EXPLORER
  ABC COMPANY
    ~$documentation.docx
    ~WRL0005.tmp
    Documentation.docx
    main.py
    Python Exam.pdf
  OUTLINE
  TIMELINE
main.py
1  employeeelist = []
2
3  choice = 0
4
5  while choice != 6:
6      try:
7          print("**** ABC Company Employee List ****")
8          print("1. Add Employee")
9          print("2. Update Employee Info")
10         print("3. Delete Employee")
11         print("4. Display Employees")
12         print("5. Search Employee")
13         print("6. Exit")
14         choice = int(input("Enter your choice: "))
15
16     if choice == 1:
17         print("### Add an Employee ###")
18         nemployee = input("Enter Employee Name: ")
19         nposition = input("Enter Employee Position: ")
20         nnumber = int(input("Enter Employee Number: "))
21         nphone = int(input("Enter Employee Phone: "))
22         employeeelist.append([nemployee, nposition, nnumber, nphone])
23         print("Employee Added Successfully!")
24     elif choice == 2:
25         print("### Update Employee Info ###")
26         index = input("Enter the Employee Name: ")
27         for employee in employeeelist:
28             if employee[0] == index:
29                 print(f"Current Info: {employee}")
30                 employee[1] = input("Enter New Position: ")
31                 employee[2] = int(input("Enter New Number: "))
32                 employee[3] = int(input("Enter New Phone: "))
```

```
22 employeeelist.append([nemployee, nposition, nnumber, nphone])
23 print("Employee Added Successfully!")
24
25 elif choice == 2:
26     print("#### Update Employee Info ####")
27     index = input("Enter the Employee Name: ")
28     for employee in employeeelist:
29         if employee[0] == index:
30             print(f"Current Info: {employee}")
31             employee[1] = input("Enter New Position: ")
32             employee[2] = int(input("Enter New Number: "))
33             employee[3] = int(input("Enter New Phone: "))
34             print("Employee Info Updated!")
35             break
36     else:
37         print("Employee Not Found")
38
39 elif choice == 3:
40     print("#### Delete Employee ####")
41     dtar = input("Enter Employee Name to Delete: ")
42     for employee in employeeelist:
43         if employee[0] == dtar:
44             employeeelist.remove(employee)
45             print("Employee Deleted!")
46             break
47     else:
48         print("Employee Not Found")
49
50 elif choice == 4:
51     print("#### All Employees ####")
52     if not employeeelist:
53         print("No Employees in the List.")
54     else:
55         for employee in employeeelist:
56             print(f"Name: {employee[0]}, Position: {employee[1]}, Number: {employee[2]}, Phone: {employee[3]}")
57
58
59
60
61
62
63
64
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66
67
68
69
```

```
40
41 for employee in employeeelist:
42     if employee[0] == dtar:
43         employeeelist.remove(employee)
44         print("Employee Deleted!")
45         break
46     else:
47         print("Employee Not Found")
48
49 elif choice == 4:
50     print("#### All Employees ####")
51     if not employeeelist:
52         print("No Employees in the List.")
53     else:
54         for employee in employeeelist:
55             print(f"Name: {employee[0]}, Position: {employee[1]}, Number: {employee[2]}, Phone: {employee[3]}")
56
57 elif choice == 5:
58     print("#### Search Employee ####")
59     target = input("Enter Employee Name to Search: ")
60     for employee in employeeelist:
61         if employee[0] == target:
62             print(f"Found Employee: {employee}")
63             break
64     else:
65         print("Employee Not Found")
66
67 elif choice == 6:
68     print("Program Exit")
69
70 else:
71     print("Enter a Valid Number Between 1 and 6")
72 except ValueError:
73     print("Invalid Input! Please Enter a Valid Number.")
74
```

## Outputs



```
File Edit Selection View Go Run ... ABC Company
EXPLORER
ABC COMPANY
  ~$documentation.docx
  ~WRL0005.tmp
  Documentation.docx
  main.py
  Python Exam.pdf
main.py
Python Exam.pdf
OUTLINE
TIMELINE
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Enter your choice: 1
#### Add an Employee ####
Enter Employee Name: b
Enter Employee Position: cto
Enter Employee Number: 2
Enter Employee Phone: 0149451
Employee Added Successfully!
**** ABC Company Employee List ****
1. Add Employee
2. Update Employee Info
3. Delete Employee
4. Display Employees
5. Search Employee
6. Exit
Enter your choice: 2
#### Update Employee Info ####
Enter the Employee Name: a
Current Info: ['a', 'ceo', 1, 1254]
Enter New Position: MD
Enter New Number: 3
Enter New Phone: 0569874
Employee Info Updated!
**** ABC Company Employee List ****
1. Add Employee
2. Update Employee Info
3. Delete Employee
4. Display Employees
5. Search Employee
6. Exit
Enter your choice: 
```

```
File Edit Selection View Go Run ... ABC Company
EXPLORER
ABC COMPANY
  ~$documentation.docx
  ~WRL0005.tmp
  Documentation.docx
  main.py
  Python Exam.pdf
main.py
Python Exam.pdf
OUTLINE
TIMELINE
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
**** ABC Company Employee List ****
1. Add Employee
2. Update Employee Info
3. Delete Employee
4. Display Employees
5. Search Employee
6. Exit
Enter your choice: 4
#### All Employees ####
Name: a, Position: MD, Number: 3, Phone: 569874
Name: b, Position: cto, Number: 2, Phone: 149451
**** ABC Company Employee List ****
1. Add Employee
2. Update Employee Info
3. Delete Employee
4. Display Employees
5. Search Employee
6. Exit
Enter your choice: 3
#### Delete Employee ####
Enter Employee Name to Delete: a
Employee Deleted!
**** ABC Company Employee List ****
1. Add Employee
2. Update Employee Info
3. Delete Employee
4. Display Employees
5. Search Employee
6. Exit
Enter your choice: 
```

