

NAME – Aditya Rahul Pahurkar  
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INPUT:

```
customers = []
def add_customer(customer_name, customer_age, customer_gender):
    customer = {
        'name': customer_name,
        'age': customer_age,
        'gender': customer_gender
    }
    customers.append(customer)
    print("Customer added successfully!")

def search_customer_by_name(customer_name):
    for customer in customers:
        if customer['name'].lower() == customer_name.lower():
            return customer
    return None

def update_customer_age(customer_name, new_age):
    customer = search_customer_by_name(customer_name)
    if customer:
        customer['age'] = new_age
        print("Customer age updated successfully!")
    else:
        print("Customer not found.")

def display_all_customers():
    print("List of all customers:")
    for customer in customers:
        print("Name:", customer['name'])
        print("Age:", customer['age'])
        print("Gender:", customer['gender'])
        print("----- ")

while True:
    print("Customer Management System")
    print("----- ")
    print("1. Add Customer")
    print("2. Search Customer by Name")
    print("3. Update Customer Age")
    print("4. Display All Customers")
    print("5. Exit")

    choice = input("Enter your choice (1-5): ")
```

```

if choice == '1':
    name = input("Enter customer name: ")
    age = int(input("Enter customer age: "))
    gender = input("Enter customer gender: ")
    add_customer(name, age, gender)
elif choice == '2':
    name = input("Enter customer name to search: ")
    found_customer = search_customer_by_name(name)
    if found_customer:
        print("Customer found!")
        print("Name:", found_customer['name'])
        print("Age:", found_customer['age'])
        print("Gender:", found_customer['gender'])
    else:
        print("Customer not found.")
elif choice == '3':
    name = input("Enter customer name to update age: ")
    new_age = int(input("Enter new age: "))
    update_customer_age(name, new_age)
elif choice == '4':
    display_all_customers()
elif choice == '5':
    print("Exiting the program. Goodbye!")
    break
else:
    print("Invalid choice. Please try again.")
print("\n")

```

OUTPUT -----

Customer Management System

```

-----
1. Add Customer
2. Search Customer by Name
3. Update Customer Age
4. Display All Customers
5. Exit
Enter your choice (1-5): 1
Enter customer name: Aditya Rahul Pahurkar
Enter customer age: 19
Enter customer gender: MALE
Customer added successfully!

```

Customer Management System

```

-----
1. Add Customer
2. Search Customer by Name
3. Update Customer Age
4. Display All Customers
5. Exit
Enter your choice (1-5): 1
Enter customer name: Ratan Tata

```

Enter customer age: 85  
Enter customer gender: MALE  
Customer added successfully!

## Customer Management System

-----

1. Add Customer
2. Search Customer by Name
3. Update Customer Age
4. Display All Customers
5. Exit

Enter your choice (1-5): 2  
Enter customer name to search: Aditya  
Customer not found.

## Customer Management System

-----

1. Add Customer
2. Search Customer by Name
3. Update Customer Age
4. Display All Customers
5. Exit

Enter your choice (1-5): 2  
Enter customer name to search: Aditya Rahul Pahurkar  
Customer found!  
Name: Aditya Rahul Pahurkar  
Age:19  
Gender: MALE

## Customer Management System

-----

1. Add Customer
2. Search Customer by Name
3. Update Customer Age
4. Display All Customers
5. Exit

Enter your choice (1-5): 4  
List of all customers:  
Name: Aditya Rahul Pahurkar  
Age:19  
Gender: MALE

-----

Name: Ratan Tata  
Age:85  
Gender: MALE

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## Customer Management System

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1. Add Customer
2. Search Customer by Name

3. Update Customer Age
4. Display All Customers
5. Exit