

Mobile Contact List Management System

Problem Statement

You are working as a software developer for a telecommunication company. The Company wants to develop a C program to manage a mobile contact list for its customers. The program should allow users to perform various operations such as adding, deleting, updating , searching for contacts and displaying all contacts. Each contact in the list should have fields for name, phone number and email address.

Menu displaying the following operations:

1. Add Contact :

- a) Get the input from the user to create new contact's details including name, phone number and email address and then print "Contact Added Successfully"
- b) After entering the details, place the contact in such a way that the contact names are in alphabetical order.

2. Delete Contact :

- a) Ask the user name of the contact that has to be deleted
- b) If the Contact exists in the list , it is deleted, after deleting the contact push the contacts below it one place up. otherwise display the message "Contact was not found" if it doesn't exist.

3. Update Contact :

- a) In order to update the contact list, users have to enter the contact's name first.
- b) If the contact is found in the list then the program allows the user to update the contact's email address and phone number. After updating the contact details, display the message "Updated Successfully"
- c) Otherwise display the message "Contact was not found"

4. Searching Contact :

- a) Ask the user the name of the contact to be searched
- b) If the contact is found in the list . its details name , phone number and email address are displayed
- c) Otherwise display the message "Contact was not found"

5. Display Contacts :

- a) The program displays the details of all contacts in the contact list

6. Exit :

- a) Print the message "Exiting...." and terminate the program

7. If the user inputs the choice other than (1-6) print the message "Invalid Input, try again" Get the input from the user whether he wishes to continue. If the input is "Y" or "y" continue the operation or else terminate the program.

Sample Input/Output:

1. Add Contact

2. Delete Contact
3. Update Contact
4. Search Contact
5. Display Contacts
6. Exit

Enter your choice: 1

Enter name: Samuel

Enter phone number: 1234567891

Enter email address: samuel@gmail.com

Contact Added Successfully

Do you want to continue(y/n)? Y

Enter your choice: 1

Enter name: Ram

Enter phone number: 9513456789

Enter email address: ram@gmail.com

Contact Added Successfully

Do you want to continue(y/n)? Y

Enter your choice: 5

Contact List :

Name: Samuel

Phone number: 1234567891

Email Address: samuel@gmail.com

Name: Ram

Phone number: 9513456789

Email Address: ram@gmail.com

Do you want to continue(y/n)? Y

Enter your choice: 6

Exiting....