

OBJECTIVE:

Build a contact book application using Python that allows users to store, manage, and search for contact information.

FEATURES:

1. **Contact Information:**
Store the following for each contact:
 - Name
 - Phone number
 - Email
 - Address
 2. **Add Contact:**
Allow users to input and save new contact information.
 3. **View Contact List:**
Display a list of all saved contacts showing **Name** and **Phone Number**.
 4. **Search Contact:**
Enable users to search contacts by **name** or **phone number**.
 5. **Update Contact:**
Allow editing/updating of any contact's information.
 6. **Delete Contact:**
Provide a way to delete a contact from the list.
 7. **User Interface:**
Command-line based, clean and easy-to-use prompts and feedback.
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SAMPLE PYTHON CODE:

python

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contacts = []

def add_contact():
    name = input("Name: ")
    phone = input("Phone Number: ")
    email = input("Email: ")
    address = input("Address: ")
    contacts.append({
        "name": name,
        "phone": phone,
        "email": email,
        "address": address
    })
    print("Contact added successfully!\n")

def view_contacts():
    if not contacts:
        print("No contacts found.\n")
        return
    for i, contact in enumerate(contacts, 1):
        print(f"{i}. {contact['name']} - {contact['phone']}")

def search_contact():
    query = input("Enter name or phone number to search: ").lower()
    found = False
    for contact in contacts:
        if query in contact['name'].lower() or query in
contact['phone']:
            print(f"\nName: {contact['name']}")
            print(f"Phone: {contact['phone']}")
            print(f>Email: {contact['email']}")
            print(f>Address: {contact['address']}\n")
            found = True
    if not found:
        print("Contact not found.\n")

def update_contact():
    name = input("Enter the name of the contact to update: ").lower()
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    for contact in contacts:
        if contact['name'].lower() == name:
            contact['phone'] = input("New Phone: ")
            contact['email'] = input("New Email: ")
            contact['address'] = input("New Address: ")
            print("Contact updated successfully!\n")
            return
    print("Contact not found.\n")

def delete_contact():
    name = input("Enter the name of the contact to delete: ").lower()
    for contact in contacts:
        if contact['name'].lower() == name:
            contacts.remove(contact)
            print("Contact deleted successfully!\n")
            return
    print("Contact not found.\n")

def main():
    while True:
        print("\n--- CONTACT BOOK MENU ---")
        print("1. Add Contact")
        print("2. View Contacts")
        print("3. Search Contact")
        print("4. Update Contact")
        print("5. Delete Contact")
        print("6. Exit")

        choice = input("Choose an option: ")

        if choice == '1':
            add_contact()
        elif choice == '2':
            view_contacts()
        elif choice == '3':
            search_contact()
        elif choice == '4':
            update_contact()

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elif choice == '5':  
    delete_contact()  
elif choice == '6':  
    print("Exiting Contact Book. Goodbye!")  
    break  
else:  
    print("Invalid option. Try again.")  
  
if __name__ == "__main__":  
    main()
```