Contact book

Introduction:

The Contact Management System (CMS) is a simple and efficient application that allows users to store, manage, and retrieve contact information. It enables users to add, view, search, update, and delete contact details effortlessly through a user-friendly interface.

Features:

* Contact Information
* Each contact entry includes the following details:
* Name: name of person
* Phone Number: Contact number for communication.
* Email: Email address for correspondence.
* Address: Physical address of the contact.

Add Contact:

* Allows users to create a new contact by entering all required details.
* Ensures no duplicate phone numbers exist.

View Contact List:

* Displays a list of all saved contacts.
* Shows contact names and phone numbers in a structured format.

Search Contact:

* Users can search for contacts by name or phone number.
* Displays matching results from the saved contact list.

Update Contact:

* Allows users to modify existing contact details.
* Updates store name, phone number, email, or address as needed.

Delete Contact:

* Provides an option to remove unwanted contacts.
* Asks for confirmation before deleting a contact permanently.

User Interface (UI):

* Simple and intuitive interface for easy navigation.
* Clear buttons for each functionality.
* Displays messages for successful actions or errors

Implementation Details:

* Technology Stack
* Programming Language: Python
* Database: SQLite (or JSON file for small-scale storage)
* Interface: Tkinter (GUI) or Command Line Interface (CLI

Project Structure:

(main.py) Main script to run the application

( contact\_manager.py ) Functions for adding, searching, updating, and deleting contacts

(ui.py )User interface implementation (if using Tkinter)

(contacts.json ) Storage file for contacts (if using JSON)

Running the Application:

1. Clone or download the project repository.

2. Navigate to the project directory.

3. Run the following command:

python main.py

Adding a Contact

1. Click on "Add Contact" button.

2. Enter the store name, phone number, email, and address.

3. Click "Save" to store the contact.

Viewing Contact List:

Click on "View Contacts" to display all stored contacts.

Searching a Contact:

1. Enter a name or phone number in the search bar.

2. Click "Search" to view matching results.

Updating a Contact:

1. Select the contact you want to update.

2. Modify the required fields.

3. Click "Update" to save changes.

Deleting a Contact:

1. Select the contact from the list.

2. Click "Delete" and confirm the action.

Future Enhancements

* Cloud Integration: Sync contacts across multiple devices.
* Export Contacts: Allow users to export contact details as CSV files.
* User Authentication: Secure contacts with login credentials.

Conclusion

The Contact Management System provides an efficient way to manage business and personal contacts. With its intuitive interface and essential functionalities, it simplifies the process of storing, retrieving, and updating contact details.