This project includes 7 files:

图形用户界面, 文本, 应用程序

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File structure:

Main.py: This is the main program the user should open it and run it, this main program could handle user interactions and invoke another programs and csv files.

Contact.py: This file is used to define a contact class, which could encapsulate all the attributes of the contact (First name, Last name, Phone number, email, address.)

Phonebook.py: This file is defined a phonebook class, which could manage the phonebook system (CRUD).

Contacts.csv: All contacts saved in this file.

ADD.csv: If you want to Import contacts from CSV file, you could add contact info in this file

Delate sample.csv: if you want to delete contacts from CSV file, you could add contact name in this file.

Phonebook.log: Record operate info in this file.

Data structure:

String: users’ input info (name phone number email address etc.)

Boolean: Judge the info that user input could be found or not in the program and Judge the phone number format that user input is right or not.

List: contacts info has been stored in a list.

Dictionary: when update info, new contact info uses the dictionary to transfer.

Class: Encapsulating the attributes of each contact.

Function introduction

After you run this program the first one is main menu.

文本

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You can choose the function that you want to by inputting the number.

1. Add contact:

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If you choose add contact, then the program will let you input info and will judge if the phone number is the correct format.

1. Add contacts from CSV

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If you choose number 2, then you need to copy the csv path and if the program find phone numbers that are not match the format, those contacts’ info will not import to the phonebook. But the other contacts info will add to the phonebook.

1. View Current contacts

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If you choose this option, you will find all contacts info.

1. Search contact

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If you choose this option, you could input contacts’ name or phone number or part or it to find the person that you want to find.

1. Search contact by date

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You could find contact when you enter start date and end date by using this option, and it will show all result that in those dates.

1. Update contact info

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In this part, you need to enter the first name or last name that saved in the phonebook, if the program did not find it, it will notice you, and if it finds, it you could update all the information for this contact.

1. Delate contact:

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In this function, you need to enter the name that you want to delate, again, if the program did not find it, it will notice you, and if it finds, it you could input yes or no to do the next step.

1. Delate contacts from CSV file

电脑屏幕的截图

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This part is similar with import contacts from csv, you need enter the path and then if the contacts in the file are not in phonebook, it will notice you and if it matches the phone book it will delate it.

1. Save and exit

After all operate that you want to do you need to save it and quit

1. Logging

You could open phonebook.log to find all log in this program

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