# Contact Manager version.1

Command line contact manager

Programmed by C++-OOP

Version 1 available commands are

- Add user (Creates new contact)
- Edit user (add/edit/delete new data to user)
- Delete user (delete user from contacts)
- Search user (find users using a keyword)
- Count users (print contacts count)
- Show all users (print all users data)
- Save into file (save users data in file)

This report file is just about program commands, if you want to see how it works you will find a [Github] URL for source code.

This program is a project for OOP (Programming 2) in Zagazig University 2022.

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# Main menu (First screen)

```
################################################################
#                                                              #
#                                                              #
#           1 - Add User                                       #
#           2 - Edit User                                      #
#           3 - Delete User                                    #
#           4 - Search User                                    #
#           5 - Count Users                                    #
#           6 - Show All Users                                 #
#           7 - Save into file                                 #
#           0 - Exit                                           #
#                                                              #
#                                                              #
#                                                              #
################################################################
>>  ▄
```

Here is the screen you see when you start the program

Let's add new user.

# 1 – Add User

```
        >> 1

        New User Added! ID: [ 1 ]

Enter user FirstName :  Zyad

Enter user LastName :  Ayad

Enter user Gender [male | female] :  male

Enter user city :  Zagazig

Enter user Phone [01xxxxxxxxxx]:  01010

Enter user Phone Type : Vodafone

Enter user Phone description : --

Enter user Email :  Example@domain.com

Enter user Email Type : email

Enter user Email description : --

Enter user Address :  Alsalam ST.

Enter user Address Type : Apartment

Enter user Address description : --

        Done!
```

Here what happens when you add new user

The program asks for general data ,one email data, one phone data and one address data

Later you can delete, add or edit and of your phones , emails and addresses

Let's check how to edit user.

# 3 - Edit User

```
        >> 2
Enter user id to edit : 1

        Choose data to edit!..

[ 1 ] - General data

[ 2 ] - Phones data

[ 3 ] - Emails data

[ 4 ] - Addresses data
>>
```

Here we choose what to edit.

I want to add new email address let's try that

```
    [ 2 ] - Phones data

    [ 3 ] - Emails data

    [ 4 ] - Addresses data
    >> 3

    Choose ..

[ 1 ]- Edit existing Email
[ 2 ]- Add new Email
[ 3 ]- Remove existing Email
[ 0 ]- Back

>> 2

    Enter user Email :

    Enter user Email :  Zyad@domain.com


    Enter user Email Type : my email


    Enter user Email description : --
```

Here we see other options [edit, remove]

I added new email.

Delete user is just a function that deletes user of given id

But what if we don't have user id ?

We can search for user.

# 4 – Search user



```
          >>  4

     Enter keyword[one word] to search for: Zyad


===========================================

User ID : 1
First Name  : Zyad
Last Name   : Ayad
Full Name   : Zyad Ayad
Gender      : male
City        : Zagazig
Added Date  : 2022 - 3 - 15
            -----------=[ Phones ]=-----------
Phone [1]        : 01010
Type [1]         : Vodafone
Description [1] : --
                 ------
            -----------=[ Emails ]=-----------
Email [1]        : Example@domain.com
Type [1]         : email
Description [1] : --
                 ------
Email [2]        : Zyad@domain.com
Type [2]         : my email
Description [2] : --
                 ------
            -----------=[ Addresses ]=-----------
Address [1]       : Alsalam ST.
Type [1]          : Apartment
Description [1] : --
                 ------

===========================================
```

So search function print all users who has the keyword in any of their data

You can see that it even prints the added email

If we forgot everything about all users we have?

We can get users count of show all users.

# 6 – Show All Users



Here we see all users data

Now if we closed the program we will lose all data

Let's try saving data in text File

# 7- Save into file

```
##############################################################
#                                                            #
#                                                            #
#              1 - Add User                                  #
#              2 - Edit User                                 #
#              3 - Delete User                               #
#              4 - Search User                               #
#              5 - Count Users                               #
#              6 - Show All Users                            #
#              7 - Save into file                            #
#              0 - Exit                                      #
#                                                            #
#                                                            #
#                                                            #
##############################################################

     >>  7


   Enter file name : testfile

##############################################################
#                                                            #
#                                                            #
#              1 - Add User                                  #
#              2 - Edit User                                 #
#              3 - Delete User                               #
#              4 - Search User                               #
#              5 - Count Users                               #
#              6 - Show All Users                            #
#              7 - Save into file                            #
#              0 - Exit                                      #
#                                                            #
#                                                            #
#                                                            #
##############################################################

     >>
```
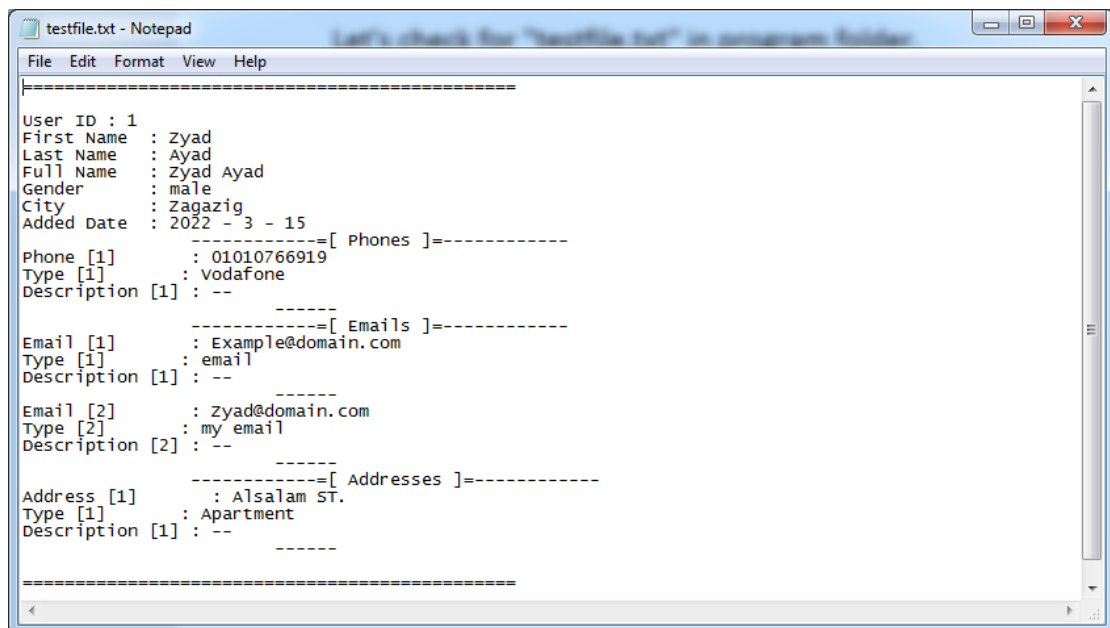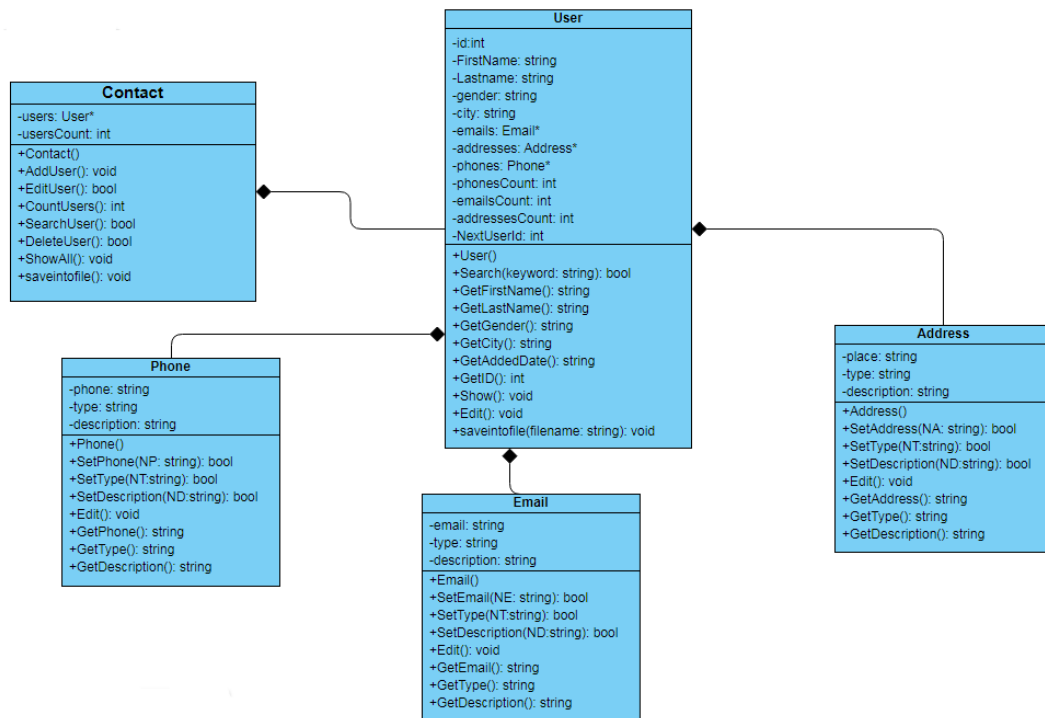
Let's check for "testfile.txt" in program folder.

testfile.txt - Notepad

File   Edit   Format   View   Help

```
==========================================
User ID : 1
First Name  : Zyad
Last Name   : Ayad
Full Name   : Zyad Ayad
Gender      : male
City        : Zagazig
Added Date  : 2022 - 3 - 15
            ------------=[ Phones ]=------------
Phone [1]         : 01010766919
Type [1]          : Vodafone
Description [1] : --
                  ------
            ------------=[ Emails ]=------------
Email [1]         : Example@domain.com
Type [1]          : email
Description [1] : --
                  ------
Email [2]         : Zyad@domain.com
Type [2]          : my email
Description [2] : --
                  ------
            ------------=[ Addresses ]=------------
Address [1]        : Alsalam ST.
Type [1]          : Apartment
Description [1] : --
                  ------

==========================================
```

Fine !

# UML diagram



That was a quick look over the program.

For more information check the source code where you will fine more explaining in header files commented by every function.

This is program code ➔

https://github.com/Zyad-Ayad/Contact-Manager-V.1

That's All.