Criminal investigation system

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Introduction

Our program is designed to handle records and crimes in sorted data structures and arrays. The user must register first and make an account or multiple accounts and login by one of them. Then, the program will give the user an ID to handle multiple users with their records. Then, you can do many operations like adding, deleting, updating, printing your records. the user will have access to her data only otherwise the admin will have the privileges to show all data of the system. The program will continuously loop until the user chose to exit.

```
░░░░░░░░ Criminal Investigation System ░░░░░░░░

      ▓1-  Register

      ▓2-  LOGIN

      ▓3-  Add new record

      ▓4-  Delete a record

      ▓5-  Display all the crimes/criminals

      ▓6-  update record

      ▓0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>1
```

Register:

The first operation can the program did is Register a New User The user should Enter the Username and His password and this Username password will save To be specific to this user only, and when he wants to log in to the program, he just must enter them to log in to the program.

If the user is admin, his username must be admin, and then he registers the password he wants and the.

login:

After Register. You can log in using the username and the password entered in the register, and you will be given an ID number, which will be the ID that represents the username you entered and the password and, in the case, you enter another wrong password or another wrong username, you will be alerted to re-login because the password or username is wrong.

```
██████████ Criminal Investigation System ██████████

                ██ Your current Id is :> 1 ██

        ██1-  Register

        ██2-  LOGIN

        ██3-  Add new record

        ██4-  Delete a record

        ██5-  Display all the crimes/criminals

        ██6-  update record

        ██0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>2

██Enter user name :>mohamed
██Enter your password :>5555
                    ██ NOT found please Register >>>


██████████ Criminal Investigation System ██████████
```
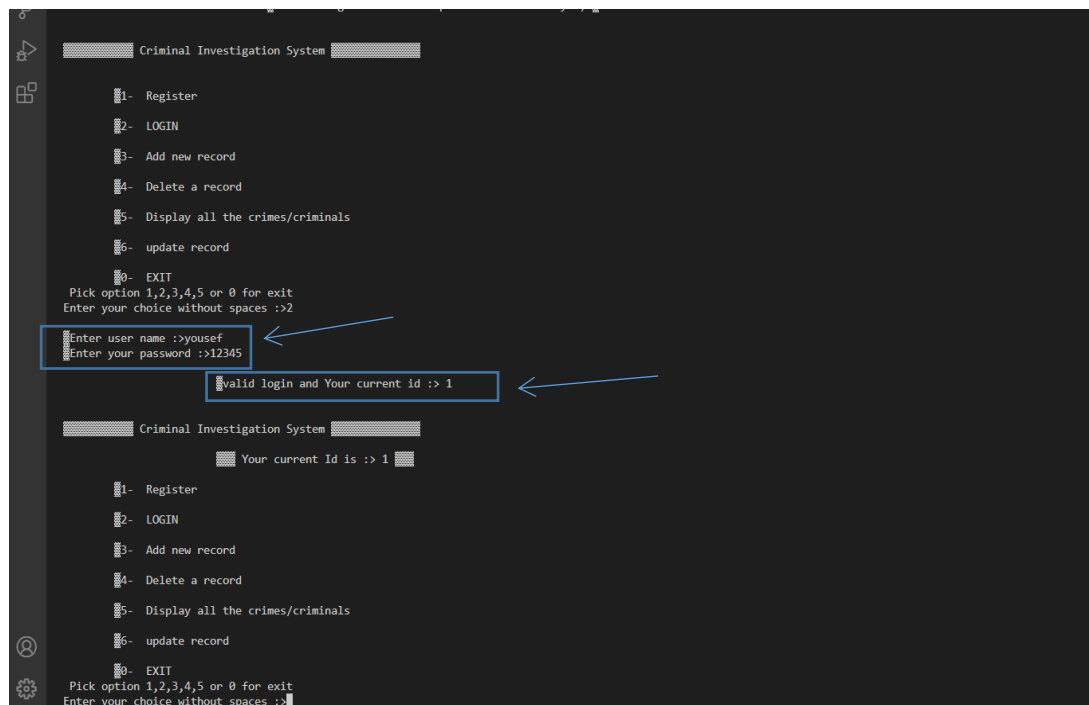
In case user is admin the program will display a different option only the admin can use them, and the program will give the admin his ID.

```
░░░░░░░░░ Criminal Investigation System ░░░░░░░░░░░░░

      ░1-  Register

      ░2-  LOGIN

      ░3-  Add new record

      ░4-  Delete a record

      ░5-  Display all the crimes/criminals

      ░6-  update record

      ░0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>2
░Enter user name :>admin
░Enter your password :>11111
                           ░valid login and Your current id :> 1

░░░░░░░░░ Criminal Investigation System ░░░░░░░░░░░░░
                    ░You are an admin now
      ░1- show all records

      ░2-  show all crminals

      ░3-  show records by name of criminal

      ░0-  EXIT
 Pick option 1,2,3 or 0 for exit
```

After the first step, which is registration and login (as officer), the second step comes, which is adding a new record, and we can add a new record by choosing option number 3 as shown in the following figure:

```
◈◈◈◈◈◈◈◈◈◈ Criminal Investigation System ◈◈◈◈◈◈◈◈◈◈◈◈◈

        ◈1-  Register

        ◈2-  LOGIN

        ◈3-  Add new record

        ◈4-  Delete a record

        ◈5-  Display all the crimes/criminals

        ◈6-  update record

        ◈0-  EXIT
Pick option 1,2,3,4,5 or 0 for exit
```

The record consists of (the criminal's name, age, date of commission of the crime and the crime) as shown in the following figure

```
              ◈◈...... Adding record .......◈◈

◈ Enter name of criminal :> ahmed_salem
◈ Enter age of criminal :> 56
◈ Enter date of record :> 2000
◈ Enter his crime :> killed_his_friend


              ◈◈...... NEW Record created :) .......◈◈
```

and certainly, we can add more than one record (each record has a number to call it when you want) as shown in the following record:

```
          ◊◊...... Adding record .......◊◊

◊ Enter name of criminal :> mohamed_hassan
◊ Enter age of criminal :> 45
◊ Enter date of record :> 2008
◊ Enter his crime :> stole_country_bank


          ◊◊...... NEW Record created :) .......◊◊
```

Then using option number 5 from the following list

```
◊◊◊◊◊◊◊◊◊◊◊ Criminal Investigation System ◊◊◊◊◊◊◊◊◊◊◊◊◊◊


    ◊1-  Register

    ◊2-  LOGIN

    ◊3-  Add new record

    ◊4-  Delete a record

    ◊5-  Display all the crimes/criminals

    ◊6-  update record

    ◊0-  EXIT
Pick option 1,2,3,4,5 or 0 for exit
```

To **display all records** as shown in the following figure:

```
Enter your choice without spaces :>5

◆There are 2 records belong to you enter one index of them or enter 0 for all
0

                    ◈◈...... Record #1 .......◈◈

      ◆The criminal is : ahmed_salem
      ◆The criminal age is : 56
      ◆The record date is : 2000
      ◆The crim activity is : killed_his_friend

              ◈◈.............................................◈◈


                    ◈◈...... Record #2 .......◈◈

      ◆The criminal is : mohamed_hassan
      ◆The criminal age is : 45
      ◆The record date is : 2008
      ◆The crim activity is : sthole_coumtru_bank

              ◈◈.............................................◈◈
```

In case the user entered invalid record number (4) there will be a record appear as shown below.

```
                    ▓ Your current Id is :> 1 ▓

        ▓1-  Register

        ▓2-  LOGIN

        ▓3-  Add new record

        ▓4-  Delete a record

        ▓5-  Display all the crimes/criminals

        ▓6-  update record

        ▓0-  EXIT
   Pick option 1,2,3,4,5 or 0 for exit
  Enter your choice without spaces :>5

  ▓ There are 3 records belong to you enter one index of them or enter 0 for all
   4

                    ▓...... Record #4 .......▓

        ▓ The criminal is :
        ▓ The criminal age is : 0
        ▓ The record date is : 0
        ▓ The crim activity is :

              ▓.............................................▓
```

Delete a record:

After adding more than one record, we can delete one of them by choosing option number 4 from the following list:

```
????????????? Criminal Investigation System ?????????????????

        ?1-    Register

        ?2-    LOGIN

        ?3-    Add new record

        ?4-    Delete a record

        ?5-    Display all the crimes/criminals

        ?6-    update record

        ?0-    EXIT
 Pick option 1,2,3,4,5 or 0 for exit
```

Then the program ask user to enter several records he wants to delete

```
Enter your choice without spaces :>4


        ?? Enter the number of the record you want to remove :>2

                ?? Record removed successfully  :)

????????????? Criminal Investigation System ?????????????????

                ??? Your current Id is :> 1 ???
```

Here user enters a record number 2 so if user displays all records now the program display record1 only:

```
Enter your choice without spaces :>5

�There are 1 records belong to you enter one index of them or enter 0 for all
0

                      ��...... Record #1 .......��

        �The criminal is : ahmed_salem
        �The criminal age is : 56
        �The record date is : 2000
        �The crim activity is : killed_his_friend

              ��.............................................��
```

Display all criminals/crimes:

you can display criminals/crimes by picking option number 5 in the criminal investigation system. If there are no records belongs to you on the system, the program will tell you that there are 0 records and asked you to create your record first.

```
    5-  Display all the crimes/criminals

    6-  update record

    0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>5

  There are 0 records belong to you create your records first  ⟵


         Criminal Investigation System

                    Your current Id is :> 1

    1-  Register

    2-  LOGIN

    3-  Add new record

    4-  Delete a record

    5-  Display all the crimes/criminals

    6-  update record

    0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>
```

In case there are already records that belongs to you, the program will ask you to enter the index of the crime you want to display or to enter 0 to display all crimes.

```
Enter date of record :> 2020
Enter his crime :> rubbed


                    ....... NEW Record created :) .......


          Criminal Investigation System
                    Your current Id is :> 1
        1-  Register

        2-  LOGIN

        3-  Add new record

        4-  Delete a record

        5-  Display all the crimes/criminals

        6-  update record

        0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>5

  There are 3 records belong to you enter one index of them or enter 0 for all
```

For example: if you entered 1 the first record will be displayed to you.

```
                      ....... Record #1 .......

        The criminal is : Criminal1
        The criminal age is : 25
        The record date is : 2010
        The crim activity is : Killing

                ..............................................


          Criminal Investigation System
                    Your current Id is :> 1
        1-  Register

        2-  LOGIN

        3-  Add new record

        4-  Delete a record

        5-  Display all the crimes/criminals

        6-  update record

        0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>
```

And in case you entered 0, all records will be displayed to you.

```
                  ...... Record #1 ......

   The criminal is : Criminal1
   The criminal age is : 25
   The record date is : 2010
   The crim activity is : Killing

         .........................................


                  ...... Record #2 ......

   The criminal is : Criminal2
   The criminal age is : 30
   The record date is : 2016
   The crim activity is : Kidnapping

         .........................................


                  ...... Record #3 ......

   The criminal is : Criminal3
   The criminal age is : 38
   The record date is : 2020
   The crim activity is : rubbed

         .........................................
```

Update a record:

You can update a record by choosing option number 6 in the criminal investigation system. Then the program will ask you to enter the number of the record you want to modify.

```
   The criminal age is : 38
   The record date is : 2020
   The crim activity is : rubbed

         .........................................


         Criminal Investigation System

                  Your current Id is :> 1

   1-  Register

   2-  LOGIN

   3-  Add new record

   4-  Delete a record

   5-  Display all the crimes/criminals

   6-  update record

   0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>6


   Enter number of the record to modify :>
```

For example: if you entered number 1, you will be able to modify the data of record number 1, Then the record will be updated.

```
Enter name of criminal :> Criminal111
Enter age of criminal :> 48
Enter date of record :> 2018
Enter his crime :> Kidnapping


               ....... Record updated .......


        Criminal Investigation System
                 Your current Id is :> 1
     1-  Register
     2-  LOGIN
     3-  Add new record
     4-  Delete a record
     5-  Display all the crimes/criminals
     6-  update record
     0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>
```

For checking: you can display the record number 1 again after being updated (by choosing option number 5) to check that the displayed data is the new data.

```
               ....... Record #1 .......

    The criminal is : Criminal111
    The criminal age is : 48
    The record date is : 2018
    The crim activity is : Kidnapping
               ...........................................


        Criminal Investigation System
                 Your current Id is :> 1
     1-  Register
     2-  LOGIN
     3-  Add new record
     4-  Delete a record
     5-  Display all the crimes/criminals
     6-  update record
     0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>
```

Exit:

Finally in case you want to exit the program, you can pick option number 0 in the system.

Admin options:

After Register and login as an admin there's an option only the admin can use it:

show all records:

when admin press 1:

All the record that had saved in program will display to the admin
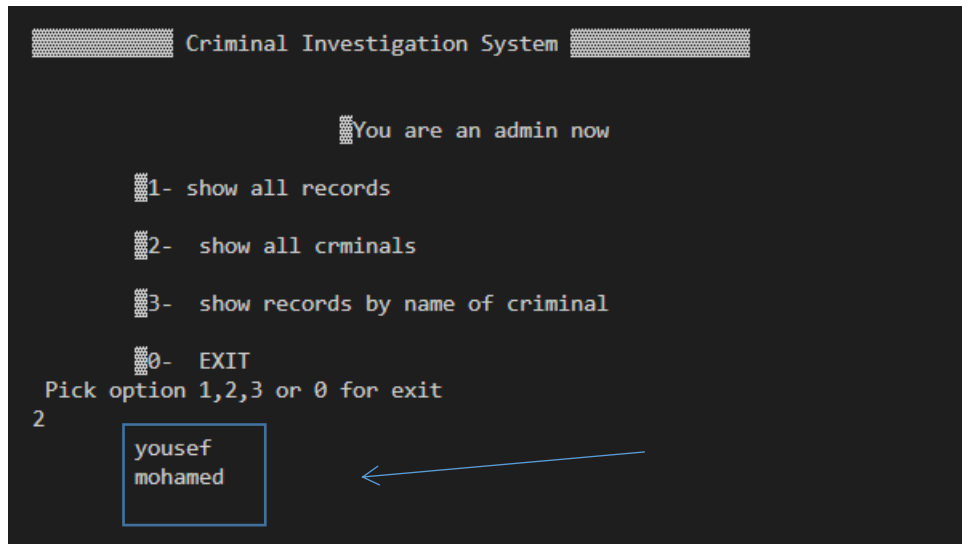
when admin press 2 All names of the criminal will display

show records by name of criminal (search for a record):

When the Admin press 3: he can search for a record by name of Criminal:

```
░░░░░░░░░░░░ Criminal Investigation System ░░░░░░░░░░░░

                        ░You are an admin now

        ░1- show all records

        ░2-  show all crminals

        ░3-  show records by name of criminal

        ░0-  EXIT
 Pick option 1,2,3 or 0 for exit
3
 Entre name of crimminal
yousef
                        ░....... Record #1 .......░

      ░ The criminal is : yousef
      ░ The criminal age is : 35
      ░ The record date is : 2003
      ░ The crim activity is : killed

                    ░...........................................░
```
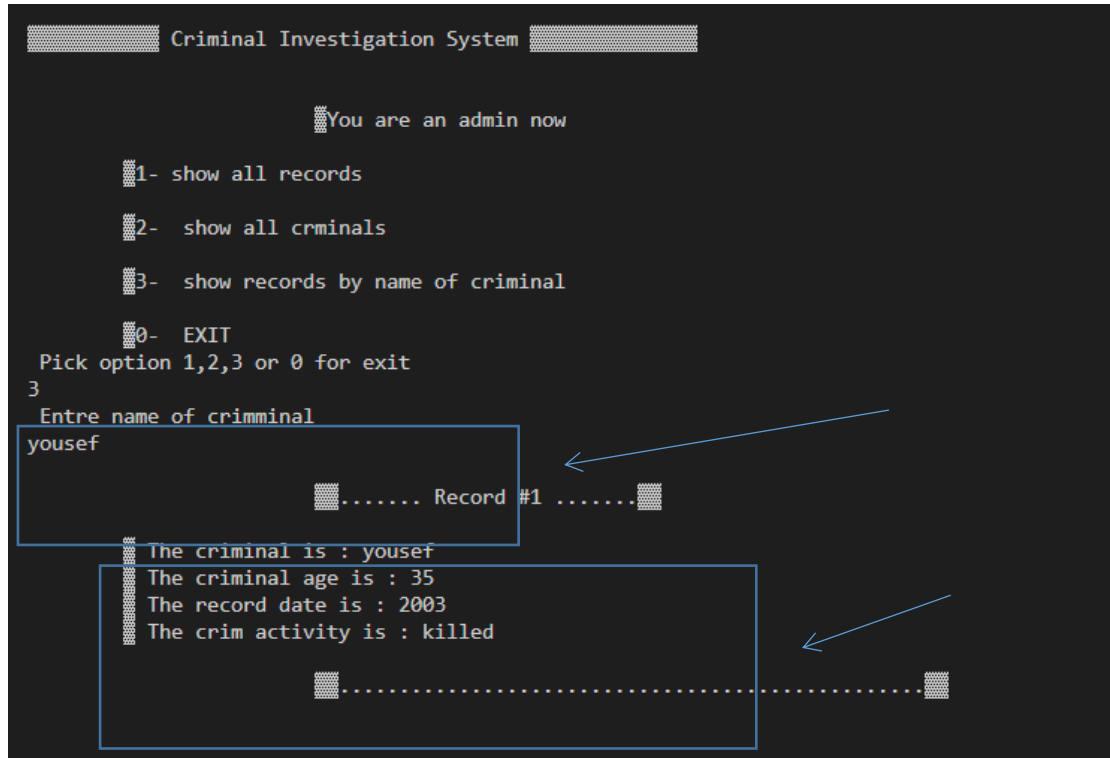
If you enter the name of a criminal that does not exist, you will be alerted that the entered name is wrong
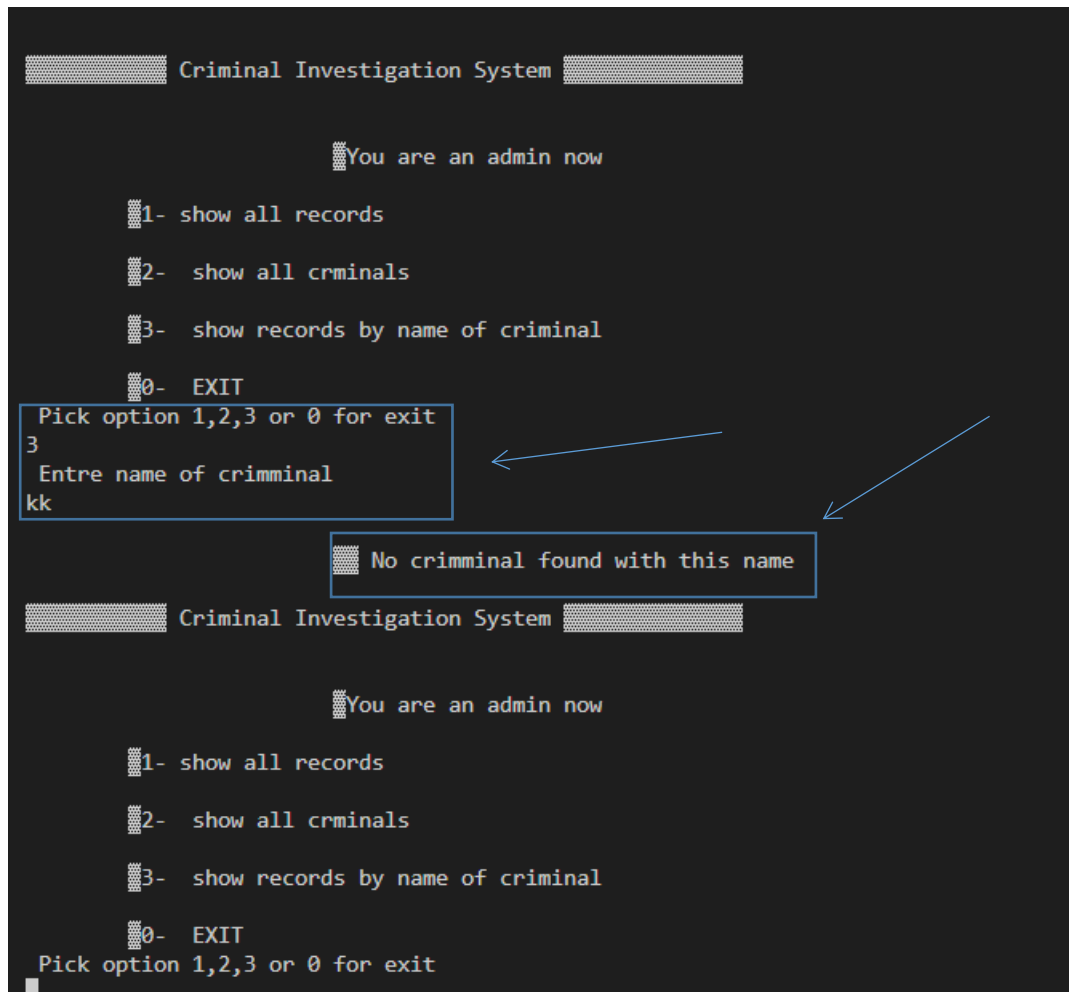
```
░░░░░░░░░ Criminal Investigation System ░░░░░░░░░

                    ░You are an admin now

        ░1- show all records

        ░2-  show all crminals

        ░3-  show records by name of criminal

        ░0-  EXIT
 Pick option 1,2,3 or 0 for exit
3
 Entre name of crimminal
kk
                    ░ No crimminal found with this name
░░░░░░░░░ Criminal Investigation System ░░░░░░░░░

                    ░You are an admin now

        ░1- show all records

        ░2-  show all crminals

        ░3-  show records by name of criminal

        ░0-  EXIT
 Pick option 1,2,3 or 0 for exit
```

Exit from admin mode:

when admin press 0

```
████████████  Criminal Investigation System  ████████████

                    █You are an admin now

        █1- show all records

        █2-  show all crminals

        █3-  show records by name of criminal

        █0-  EXIT
 Pick option 1,2,3 or 0 for exit
0                    ←────────────────


████████████  Criminal Investigation System  ████████████

                    ███ Your current Id is :> 1 ███

        █1-  Register

        █2-  LOGIN

        █3-  Add new record            ←──────────

        █4-  Delete a record

        █5-  Display all the crimes/criminals

        █6-  update record

        █0-  EXIT
 Pick option 1,2,3,4,5 or 0 for exit
Enter your choice without spaces :>█
```