

CRIME REPORTING SOFTWARE



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Last but not the least I would like to thank all those who directly or indirectly helped me and my group members in completion of our project.

CONTENTS

INTRODUCTION

- The "Crime Reporting Software" has been developed to improve the efficiency of reporting crime. This software is supported to initiate a quick response whenever a crime is reported. Moreover, this system is designed for the masses to report any crime they come across at the moment's notice. It's designed in a user-friendly manner, with descriptive evidence provided on the spot, will help the police with access to adequate and reliable evidence. .
- This software is made with portability in mind. All features can be accessed within a few seconds after installation

SCOPE OF THE PROGRAM

- The program is divided into two main sections:-
 1. **Users**:- which includes admins and registered members.
 2. **Crimes**:- which includes all reported data.

All information regarding the users is stored in a database "login" which includes userno, name, password, phoneno and admin details.

All details are stored and fetched from MySQL database "Login".

SOURCE CODE

```
#Imports and Startup definitions for Crime Reporting Software
import mysql.connector as c
import time
import os
from datetime import date
today=date.today()
cnx=c.connect(host="localhost",user="root",password="root",charset="utf8")
crs=cnx.cursor()
crs.execute("create database if not exists login")
crs.execute("use login")
def startup():
    crs.execute("create table if not exists login (Num int(2) primary key AUTO_INCREMENT,User
varchar(25) unique,Pass varchar(12),Phoneno int(10),Admin varchar(1))")
    crs.execute("insert ignore into login values(1,'root','root',100,'y')")
    crs.execute("create table if not exists crime (Num int(2) primary key AUTO_INCREMENT,Crime
varchar(25),Location varchar(12),Date DATE,Description varchar(125),User varchar(25))")
    cnx.commit()
    menu()
#Login and Register purposes
def login():
    os.system('CLS')
    user=input("Enter your Username: ")
    print()
    passs=input("Enter your Password: ")
    crs.execute("select pass from login where user='{ }'".format(user))
    check=crs.fetchall()
    for i in check:
        if i[0]==str(passs):
            global x
            x=user
            mainmenu(user)
def register():
    os.system('CLS')
    user=input("Enter your Username: ")
    print()
    passs=input("Enter your Password: ")
    print()
    pass_check=input("ReEnter your Password: ")
    print()
    phno=int(input("Enter your Phone Number: "))
    ad="n"
    if passs==pass_check:
        crs.execute("insert into login (user,pass,phoneno,admin) values('{ }','{ }',
{ },'{ }')".format(user,passs,phno,ad))
        cnx.commit()
        os.system('CLS')
        print("Registering...")
        time.sleep(3)
        print("Registered Successfully!")
        menu()
    else:
        os.system('CLS')
        print("Recheck Failed, Retry!")
        time.sleep(2)
        register()
def chngpass(user):
    os.system('CLS')
    usr=input("Enter the Password: ")
    crs.execute("update login set pass='{ }' where user='{ }'".format(usr,x))
    cnx.commit()
    os.system('CLS')
    print("Changing Password.....")
    time.sleep(1)
    print("Successfully Changed!")
    time.sleep(2)
```

```

def menu():
    os.system('CLS')
    print('\n'*10)
    print("+-----+\n")
    print("MENU".center(25))
    print('-'*28)
    print()
    print("1.Login(Sign IN)\n".center(12))
    print("2.Register(Sign UP)          (3.exit)".center(12))
    print("+-----+\n")
    while True:
        try:
            r=int(input("Enter your choice: "))
            break
        except ValueError:
            os.system('CLS')
            print("Errored!. Reconnecting....")
            time.sleep(2)
            menu()

    if r==1:
        login()
    elif r==2:
        register()
    elif r==3:
        os.system('CLS')
        print("Call 100 For Further Assistance")
        time.sleep(2)
        os.system('CLS')
        exit()
    else:
        print("Returning to menu.....")
        time.sleep(3)
        menu()

#Mainmenu for all users to report crimes
def mainmenu(user=7):
    crs.execute("select admin from login where user='{ }'".format(user))
    check=crs.fetchall()
    if user==7:
        menu()
    os.system('cls')
    print("Logging in!")
    time.sleep(1)
    os.system('cls')
    print("+-----+\n")
    print("MAINMENU".center(25))
    print('-'*28)
    print()
    print("1.Crime Reporting\n\n2.History\n\n3.Change Password\n\n4.Logout")
    for i in check:
        if i[0]=="y":
            print("\n5.Admin Menu")
    print("+-----+\n")
    while True:
        try:
            r=int(input("Enter your choice: "))
            break
        except ValueError:
            os.system('CLS')
            print("Errored!. Reconnecting....")
            time.sleep(2)
            mainmenu(user)

    if r==1:
        crime()
    elif r==2:
        history()
    elif r==3:
        print(user)
        chngpass(user)
    elif r==4:
        print("Logging Out!....")
        global x
        del x
        time.sleep(3)
        menu()
    elif r==5:
        for i in check:
            if i[0]=="y":
                admin()
    else:
        mainmenu(x)

```

```

#Shows all reported crime by the logged in user
def history():
    crs.execute("select * from crime where user='{ }'".format(x))
    check=crs.fetchall()
    print("+-----+\\n")
    for i in check:
        print(" | Crime Number      : ",i[0],"\\n | Crime              : ",i[1],"\\n | Location          : ",i[2],"\\n | Date              : ",i[3],"\\n | Description        : ",i[4],"\\n | User Reported     : ",i[5],"\\n")
        print("+-----+\\n")
    c=input("Enter To Continue")
    mainmenu(x)

#Crime reporting menu
def crime():
    os.system('CLS')
    print('\\n'*10)
    print("+-----+\\n")
    print("TYPES OF CRIMES".center(25))
    print('-'*25)
    print("1.TRAFFIC\\n\\n2.ASSAULT\\n\\n3.THEFT\\n\\n4.CYBER\\n\\n5.TRAFFICKING\\n\\n6.DRUGS")
    print("+-----+\\n")
    while True:
        try:
            crime=int(input("Enter your choice: "))
            break
        except ValueError:
            os.system('CLS')
            print("Errored!. Reconnecting...")
            time.sleep(2)
            mainmenu(x)

    if crime==1:
        crm="Traffic"
    elif crime==2:
        crm="Assault"
    elif crime==3:
        crm="Theft"
    elif crime==4:
        crm="Cyber"
    elif crime==5:
        crm="Trafficking"
    elif crime==6:
        crm="Drugs"
    #os.system('cls')
    print()
    loc=input("Enter the location of the crime: ")
    date=today.strftime("%d/%m/%Y")
    print()
    desc=input("Enter a description for further evidence: ")
    crs.execute("insert into crime (crime,location,date,description,user)
values('{ }','{ }',now(),'{ }','{ }')".format(crm,loc,desc,x))
    cnx.commit()
    os.system('cls')
    print("Reporting Crime ....")
    time.sleep(2)
    os.system('cls')
    print("Thank You For Your Service!")
    time.sleep(3)
    mainmenu(x)

#Admin section
def admin():
    os.system('cls')
    print("Logging in!")
    time.sleep(1)
    os.system('cls')
    print('\\n'*10)
    print("+-----+\\n")
    print("ADMIN MENU".center(25))
    print('-'*25)
    print("1.USER DATA\\n\\n2.CRIME DATA")
    print("+-----+\\n")
    while True:
        try:
            r=int(input("Enter your choice: "))
            break
        except ValueError:
            os.system('CLS')
            print("Errored!. Reconnecting...")
            time.sleep(2)
            mainmenu(x)

    if r==1:
        userdata()
    if r==2:
        crimedata()
    else:
        mainmenu(x)

```


#Records of user data

```
def userdata():
    os.system('cls')
    print('\n'*10)
    print("+-----+\n")
    print("USER DATA".center(25))
    print('-'*25)
    print("1.SHOW ALL USERS\n2.SEARCH BY USERNAME\n3.SEARCH BY PHONE NO\n4.CHANGE USERDATA")
    print("+-----+\n")
    while True:
        try:
            r=int(input("Enter your choice: "))
            break
        except ValueError:
            os.system('CLS')
            print("Errored!. Reconnecting...")
            time.sleep(2)
            userdata()

    if r==1:
        crs.execute("select * from login")
        check=crs.fetchall()
        print("+-----+\n")
        for i in check:
            print(" | User Number : ",i[0],"\n | User Name : ",i[1],"\n | Phone Number : ",i[3],"\n
| Admin : ",i[4],"\n")
            print("+-----+\n")
        c=input("Enter To Continue")
        userdata()

    elif r==2:
        c=input("Enter the UserName to search: ")
        crs.execute("select * from login where user='{ }'.format(c)")
        check=crs.fetchall()
        print("+-----+\n")
        for i in check:
            print(" | User Number : ",i[0],"\n | User Name : ",i[1],"\n | Phone Number : ",i[3],"\n
| Admin : ",i[4],"\n")
            print("+-----+\n")
        c=input("Enter To Continue")
        userdata()

    elif r==3:
        c=input("Enter the Phone No to search: ")
        crs.execute("select * from login where phoneno={ }".format(c))
        check=crs.fetchall()
        print("+-----+\n")
        for i in check:
            print(" | User Number : ",i[0],"\n | User Name : ",i[1],"\n | Phone Number : ",i[3],"\n
| Admin : ",i[4],"\n")
            print("+-----+\n")
        c=input("Enter To Continue")
        userdata()

    elif r==4:
        os.system('cls')
        print('\n'*10)
        print("+-----+\n")
        print("USER DATA".center(25))
        print('-'*25)
        print("1.CHANGE USERNAME\n2.CHANGE PASSWORD\n3.CHANGE ADMIN PRIVILAGES\n4.DELETE USER")
        print("+-----+\n")
        while True:
            try:
                k=int(input("Enter your choice: "))
                break
            except ValueError:
                os.system('CLS')
                print("Errored!. Reconnecting...")
                time.sleep(2)
                userdata()
```



```
if k==1:
    os.system('CLS')
    chng=input("Enter the User to change: ")
    print()
    usr=input("Enter the UserName: ")
    crs.execute("update login set user='{}' where user='{}'".format(usr,chng))
    cnx.commit()
    os.system('CLS')
    print("Changing UserName.....")
    time.sleep(1)
    print("Successfully Changed!")
    time.sleep(2)
elif k==2:
    os.system('CLS')
    chng=input("Enter the User to change: ")
    print()
    usr=input("Enter the Password: ")
    crs.execute("update login set pass='{}' where user='{}'".format(usr,chng))
    cnx.commit()
    os.system('CLS')
    print("Changing Password.....")
    time.sleep(1)
    print("Successfully Changed!")
    time.sleep(2)
elif k==3:
    os.system('CLS')
    chng=input("Enter the User to change: ")
    print()
    usr=input("Change Admin Privilages(y/n): ")
    crs.execute("update login set admin='{}' where user='{}'".format(usr,chng))
    cnx.commit()
    os.system('CLS')
    print("Changing Privilages.....")
    time.sleep(1)
    print("Successfully Changed!")
    time.sleep(2)
elif k==4:
    os.system('CLS')
    chng=input("Enter the User to DELETE: ")
    print()
    crs.execute("delete from login where user='{}'".format(chng))
    cnx.commit()
    os.system('CLS')
    print("Deleting User.....")
    time.sleep(1)
    print("Successfully Deleted!")
    time.sleep(2)
else:
    userdata()
else:
    admin()
```

```

#Records of crime data
def crimedata():
    os.system('CLS')
    print('\n'*10)
    print("+-----+\\n")
    print("CRIME DATA".center(25))
    print('-'*25)
    print("1.SHOW ALL REPORTS\\n\\n2.SEARCH BY CRIME\\n\\n3.SEARCH BY USER\\n\\n4.SEARCH BY CRIME NUMBER")
    print("+-----+\\n")
    while True:
        try:
            k=int(input("Enter your choice: "))
            break
        except ValueError:
            os.system('CLS')
            print("Errored!.   Reconnecting...")
            time.sleep(2)
            crimedata()

    if k==1:
        crs.execute("select * from crime")
        check=crs.fetchall()
        print("+-----+\\n")
        for i in check:
            print(" | Crime Number      : ",i[0],"\\n | Crime              : ",i[1],"\\n | Location          : ",i[2],"\\n | Date              : ",i[3],"\\n | Description        : ",i[4],"\\n | User Reported     : ",i[5],"\\n")
            print("+-----+\\n")
            c=input("Enter To Continue")
            crimedata()

    elif k==2:
        c=input("Enter the Crime to search: ")
        crs.execute("select * from crime where crime='{ }'".format(c))
        check=crs.fetchall()
        print("+-----+\\n")
        for i in check:
            print(" | Crime Number      : ",i[0],"\\n | Crime              : ",i[1],"\\n | Location          : ",i[2],"\\n | Date              : ",i[3],"\\n | Description        : ",i[4],"\\n | User Reported     : ",i[5],"\\n")
            print("+-----+\\n")
            c=input("Enter To Continue")
            crimedata()

    elif k==3:
        c=input("Enter the User to search: ")
        crs.execute("select * from crime where user='{ }'".format(c))
        check=crs.fetchall()
        print("+-----+\\n")
        for i in check:
            print(" | Crime Number      : ",i[0],"\\n | Crime              : ",i[1],"\\n | Location          : ",i[2],"\\n | Date              : ",i[3],"\\n | Description        : ",i[4],"\\n | User Reported     : ",i[5],"\\n")
            print("+-----+\\n")
            c=input("Enter To Continue")
            crimedata()

    elif k==4:
        c=input("Enter the Crime Number to search: ")
        crs.execute("select * from crime where num='{ }'".format(c))
        check=crs.fetchall()
        print("+-----+\\n")
        for i in check:
            print(" | Crime Number      : ",i[0],"\\n | Crime              : ",i[1],"\\n | Location          : ",i[2],"\\n | Date              : ",i[3],"\\n | Description        : ",i[4],"\\n | User Reported     : ",i[5],"\\n")
            print("+-----+\\n")
            c=input("Enter To Continue")
            crimedata()

    else:
        admin()

#For error checking
startup()
while True:
    try:
        x
        time.sleep(3)
        mainmenu(x)
    except NameError:
        time.sleep(3)
        menu()

```


SAMPLE OUTPUTS

+-----+

MENU

1.Login(Sign IN)

2.Register(Sign UP) (3.exit)

+-----+

Enter your choice:

+-----+

MAINMENU

1.Crime Reporting

2.History

3.Change Password

4.Logout

5.Admin Menu

+-----+

Enter your choice: █

CRIME REPORTING MENU

+-----+

TYPES OF CRIMES

1.TRAFFIC

2.ASSAULT

3.THEFT

4.CYBER

5.TRAFFICKING

6.DRUGS

+-----+

Enter your choice: 1

Enter the location of the crime: Thrissur

Enter a description for further evidence: Hit and Run by a white sadan.■

Reporting Crime

Thank You For Your Service!

ADMIN MENU AND USER DATA MENU

+-----+

ADMIN MENU

1.USER DATA

2.CRIME DATA

+-----+

Enter your choice:

+-----+

USER DATA

1.SHOW ALL USERS

2.SEARCH BY USERNAME

3.SEARCH BY PHONE NO

4.CHANGE USERDATA

+-----+

Enter your choice:

SUBMENUS FOR USER DATA AND CRIME DATA

+-----+

USER DATA

- 1.CHANGE USERNAME
- 2.CHANGE PASSWORD
- 3.CHANGE ADMIN PRIVILAGES
- 4.DELETE USER

+-----+

Enter your choice:

+-----+

CRIME DATA

- 1.SHOW ALL REPORTS
- 2.SEARCH BY CRIME
- 3.SEARCH BY USER
- 4.SEARCH BY CRIME NUMBER

+-----+

Enter your choice:

HISTORY MENU FOR CRIME AND USER RECORDS

+-----+

Crime Number	:	11
Crime	:	Traffic
Location	:	Thrissur
Date	:	2022-11-14
Description	:	Hit and Run by a white sadan.
User Reported	:	root

+-----+

+-----+

User Number	:	1
User Name	:	root
Phone Number	:	100
Admin	:	y

+-----+

REGISTER MENU

Enter your Username: Admin

Enter your Password: pass123

ReEnter your Password: pass123

Enter your Phone Number: 8929417766_

Registering....

EXCEPTION HANDLING WITH RETRY

Errored!. Reconnecting....

Logging in!

Enter your choice: 8
Returning to menu.....

CONCLUSION

BILBIOGRAPHY

1. STACKOVERFLOW.COM

2. GITHUB.COM

3. YOUTUBE.COM