**INTRODUCTION**

Phone Directory is a project that is provide by technical assignment help to us in that we get a dimple SQL based solution to store our contacts. We can use it to replace our hand phonebook or even use it as an office-wide phone directory. This will help user to easily search and manage contacts using this system.

This System is developed using the general need required by the user while using the phone directorybook.In order to keep updated the phone book directory. The admin will have the authority to add and delete as well as modify the existing records within the phone book directory.The users of the directory will only have the authority to search any particular

Record and listing details of all available records.

To provide the search result within short interval of time optimized search algorithm code have been used that will able to provide the results within seconds.

**HARDWARE USED**

⮞SSD Western Digital 1TB SSD

# ⮞RAM Corsair Vengeance LPX 8GB(x2) DDR4 3000mhz

# ⮞Processor AMD Ryzen 7 2700X

# ⮞Motherboard Asus Rog Strix B-450e series

# ⮞Graphic Card Zotac Gaming RTX 2070

# ⮞SMPS Corsair CX650

# ⮞OS Windows 10 PRO

**SOFTWARE USED**

⮞Python 3.8(64-bit)

⮞MSQL Command Line Client

**lIMITATIONS**

⮞System works in all platforms and its compatible environments.

⮞Advanced techniques are not used to check the authorization

⮞ No offline mode

**FUTURE ENHANCEMENTS**

⮞ As the technology emerges, it is possible to upgrade the system and can be online.

⮞Because it is based on object-oriented design, any further changes can be easily adaptable.

⮞Based on the future security issues, security can be improved using emerging technologies.

⮞GPS can be added

⮞ Online with offline mode.

**ADVANTAGES**

⮞Phone directory facilitates a standard record of contact info.

⮞ They provide contact info.

⮞You can use a directory to get emergency help.

⮞Directories provide useful geographical information.

⮞ The accounts prepared with the use of computerized accounting system are usually uniform, neat, accurate, and more legible than a manual job.

⮞Computer is a reliable and time-saving device. The [volume](https://www.toppr.com/guides/maths/how-big-how-heavy/volume/) of job handled with the help of computerized system results in economy and lower operating costs. The overall operating [cost](https://www.toppr.com/guides/business-economics/theory-of-cost/cost-concepts/) of this system is low in comparison to the traditional system.

⮞This system is more efficient in comparison to the traditional system. The computer makes sure speed and accuracy in preparing the records and accounts and thus, increases the efficiency of employees.

⮞Computerized accounting make sure accuracy in accounting records and statements. It prevents clerical errors and omissions in records.

## ****Need for Computerisation****

Its need arises from the benefits of speed, accuracy and lower cost of handling the business transactions. Also, it has the [capability](https://www.toppr.com/guides/accountancy/application-of-computers-in-accounting/capabilities-and-limitations-of-computer-systems/) to record a large number of transactions with speed and accuracy. It allows quick and quality reporting because of its [speec](https://www.toppr.com/guides/quantitative-aptitude/time-and-speed/distance-speed-relation/) and [accuracy](https://www.toppr.com/guides/physics/units-and-measurement/accuracy-precision-instruments-errors-measurement/). Manual accounting system requires large storage to keep accounting records, and vouchers. The requirement of books and stationery and books of accounts along with vouchers and documents is dependent on the volume of [transactions](https://www.toppr.com/guides/accountancy/recording-transactions/business-transaction-and-source-document/).

## Features ****Computerisation****

⮞**Simple and Integrated**

⮞**Accuracy & Speed**

⮞**Scalability**

⮞**Instant Reporting**

⮞**Security**

⮞**Quick Decision Making**

⮞**Reliability**

**SOURCE CODE**

**import mysql.connector as mys**

**mydb=mys.connect(host="localhost",user="root",passwd="admin")**

**myc = mydb.cursor()**

**#INSERTION**

**def insert():**

**myc.execute("CREATE DATABASE PHONE DIRECTORY")**

**myc.execute("USE PHONE DIRECTORY")**

**myc.execute("CREATE TABLE CONTACTS(SNO.int PRIMARY KEY, NAME VARCHAR(20) UNIQUE NOT NULL, PHONE NUMBER INT UNIQUE NOT NULL")**

**n= int (input("ENTER NUMBER OF CONTACTS TO BE INSERTED:"))**

**for i in range(n):**

**sno=int(input("ENTER S.NO:"))**

**name=input("ENTER NAME OF THE CONTACT:")**

**no=int(input("ENTER PHONE NUMBER:"))**

**myc.execute("INSERT INTO CONTACTS VALUES ({},'{}',{})format(sno,name,no)")**

**mydb.commit()**

**print("CONTACTS INSERTED SUCCESSFULLY")**

**#SEARCHING CONTACT IN TABLE**

**def search():**

**name=input("ENTER NAME OF CONTACTS TO BE SEARCHED:")**

**data=myc.fetchall()**

**for i in data:**

**if i[1]==name:**

**print("CONTACT SUCESSFULLY FOUND")**

**#UPDATING A CONTACT IN TABLE**

**def update():**

**number=int(input("ENTER NUMBER TO BE UPDATED:"))**

**name=input("ENTER NAME OF CONTACT:")**

**myc.execute("UPDATE CONTACTS SET PHONE NUMBER={} WHERE NAME='{}'format(number,name)")**

**mydb.commit()**

**print("CONTACT SUCESSFULLY UPDATED")**

**#DELETING A CONTACT FROM TABLE**

**def delete():**

**name=input("ENTER NAME OF CONTACT TO BE DELETED:")**

**myc.execute("DELETE FROM CONTACTS WHERE NAME='{}format(name)")**

**mydb.commit()**

**print("CONTACT SUCESSFULLY DELETED")**

**#DISPLAYING CONTENT OF TABLE**

**def display():**

**print("TABLE AFTER PERFORMING PREVIOUS TASKS")**

**myc.execute ("SELECT\*FROM CONTACTS")**

**for i in myc:**

**print(i)**

**#\_\_main\_\_**

**ans='y'**

**while ans.lower()=='y':**

**print("MENU AVAILABLE")**

**print("ENTER 1 TO INSERT CONTACTS")**

**print("ENTER 2 TO SEARCH A CONTACTS")**

**print("ENTER 3 TO UPDATE A CONTACT")**

**print("ENTER 5 TO DISPLAY THE CONTENT OF THE TABLE")**

**print("ENTER 6 TO EXIT")**

**n=int(input("ENTER A NUMBER (1-5):"))**

**if n==1:**

**insert()**

**ans=input("DO YOU WANT TO CONTINUE (y/n):")**

**elif n==2:**

**search()**

**ans=input("DO YOU WANT TO CONTINUE(y/n):")**

**elif n==3:**

**update()**

**ans=input("DO YOU WANT TO CONTINUE(y/n):")**

**elif n==4:**

**delete()**

**ans=input("DO YOU WANT TO CONTINUE(y/n):")**

**elif n==5:**

**display()**

**ans=input("DO YOU WANT TO CONTINUE(y/n):")**

**elif n==6:**

**break**

**else:**

**print("INVALID CHOICE")**

**ans=input("DO YOU WANT TO CONTINUE(y/n):")**

**print("THANK YOU...")**