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A Project Report On

BLOOD DONATION BANK MANAGEMENT SYSTEM

For AISSCE 2022 Examination

[As a part of the Computer Science Course (083)]

SUBMITTED BY:

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Roll no:

Under the Guidance of:

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PGT (Csc)

Internal Examiner

External Examiner

Certificate

This is to certify that the project entitled **BLOOD DONATION BANK MANAGEMENT SYSTEM** is a bonafide work done by **Darsh Marothi** of class XII Session 2021-2022 in partial fulfillment of CBSE's **AISSCE Examination 2022** has been carried out under my direct supervision and guidance. This report or a similar report on the report on the topic has not been submitted for any other examination and does not form a part of any other course undergone by the candidate.

_____ _____

Signature of the student Signature of the teacher

Acknowledgement

I would like to express my special thanks & gratitude to my Computer Science teacher **Mrs. Akhila B** for guiding me through the course of the project. She always evinced keen interest in my work. Her encouragement and support has largely contributed to the successful completion of this project.

I also thank my team members **Abhinav Binoy, Sai sidharthan, Nithin R** for their suggestions and ideas throughout the project.

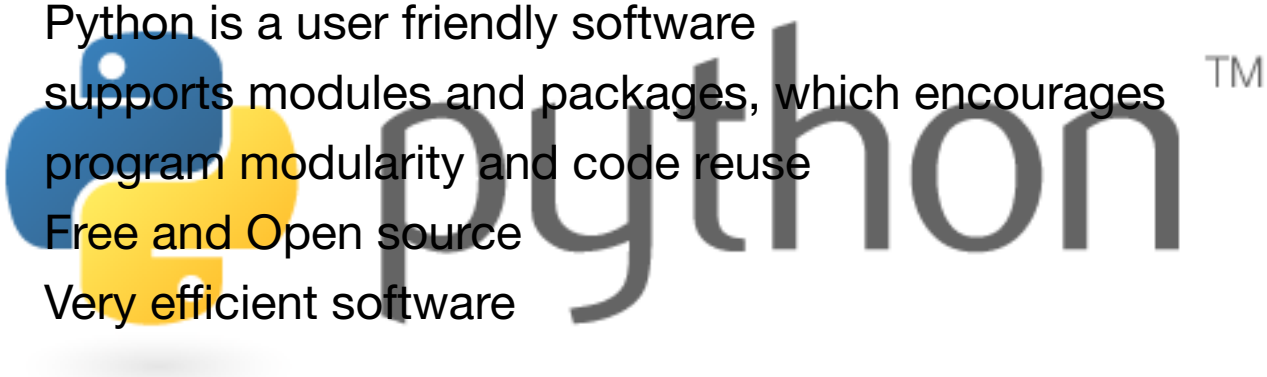
Contents

Introduction

Python

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics developed by Guido Van Rossum in 1991. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together.

- Python is a user friendly software
- supports modules and packages, which encourages program modularity and code reuse
- Free and Open source
- Very efficient software



Guido van Rossum began working on Python in the late 1980s, as a successor to the ABC programming language, and first released it in 1991 as Python 0.9.0. Python 2.0 was released in 2000 and introduced new features, such as list comprehensions and a cycle-detecting garbage collection system (in addition to reference counting). Python 3.0 was released in 2008 and was a major revision of the language that is not completely backward-compatible. Python 2 was discontinued with version 2.7.18 in 2020.

Python consistently ranks as one of the most popular programming languages.

Modules Used

Mysql.connector

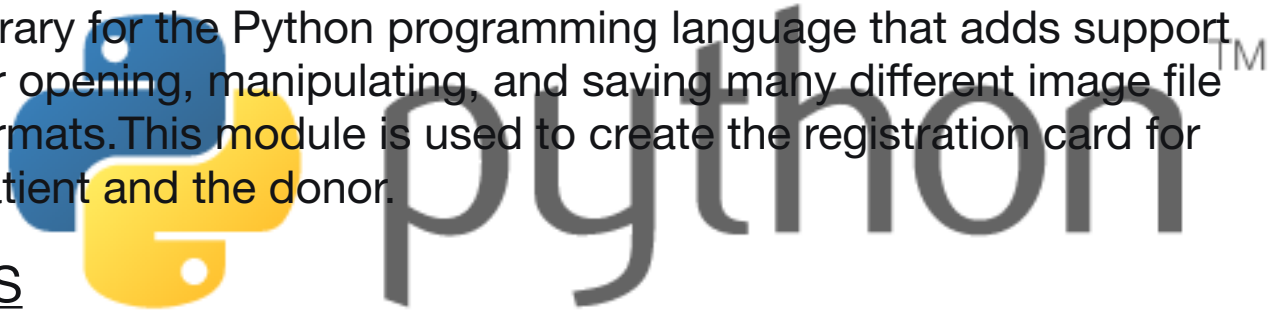
MySQL Connector/Python enables Python programs to access MySQL databases.It is written in pure Python and does not have any dependencies except for the Python StandardLibrary.

Random

Python Random module is an in-built module of Python which is used to generate random numbers.This module is used to generate a random number for the donor id and patient id.

Pil

Python Imaging Library is a free and open-source additional library for the Python programming language that adds support for opening, manipulating, and saving many different image file formats.This module is used to create the registration card for patient and the donor.



OS

The OS module in Python provides functions for interacting with the operating system. OS comes under Python's standard utility modules. This module provides a portable way of using operating system dependent functionality.

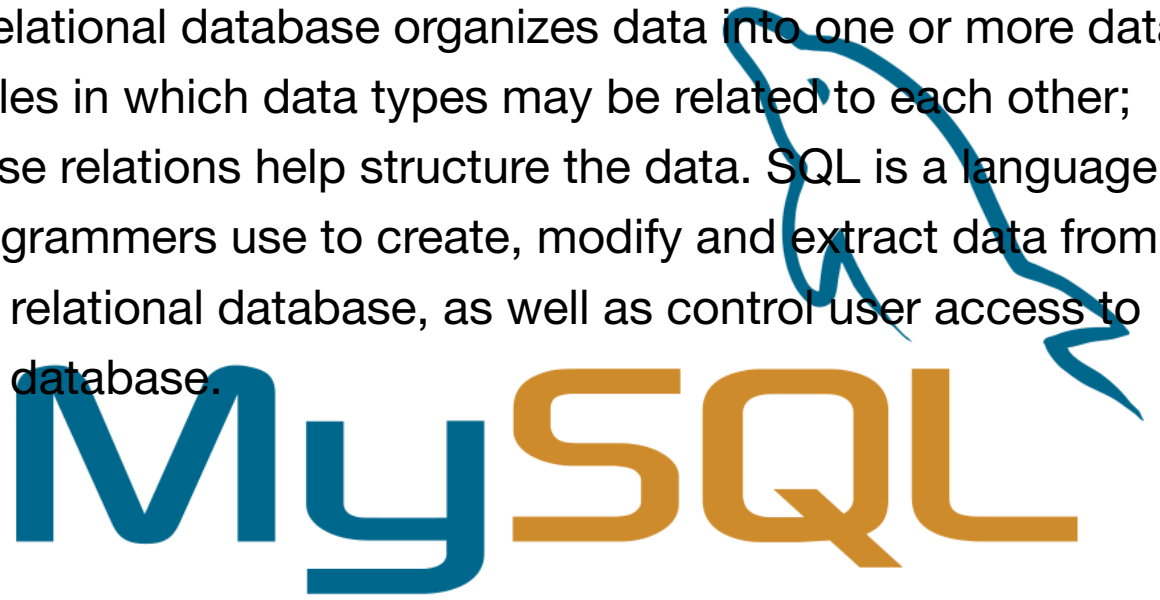
Qrcode

Qrcode module is a QR code generator. The module automates most of the building process for creating QR codes..This module is used to generate a qrcode for the registration card.The user can access the id's of donor or patient on scanning the qrcode.

MySql

Mysql is an open-source relational database management system (RDBMS).Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language.

A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database.



In addition to relational databases and SQL, an RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups.

About the Project

This project is based on a **Blood Bank Donation System Database**. In our project we created multiple tables with multiple attributes each. In this evolving society storing large amount of data has become very complicated and time consuming.

Our purpose was to create a database that stored information about **the Donor, the Recipient, Blood Volume**, how much and when the blood was donated. All tables are linked together under a single database and We created **three different views: Donor Records, Patient Records, and Avlb**. The Donor and Patient records tables are similar to each other. They both include the unique id given to them, his/her name, gender, address, phone number, and blood type. The Donor_Id and Patient_Id are the primary keys of the respective tables which provide an unique ID the individual based on their purpose. It also allows them to retrieve or update their data (such as phone number,address,etc).

By using such kind of a database one can easily store, update, and retrieve large amounts of data just by a keystroke. The program is user friendly and provides the user a range of choices which will direct him/her to the required part of the program.

1) Main Menu

In the main menu, the user has to enter whether he is a donor or a patient or wants to check availability.

2) Sub menu

After the user enters donor or patient,he now has the option to register or update.

3) Donor/Patient Registration

In registration , an donor/patient id is generated from the random module and all other data entered by the user such as name, blood group etc along with the generated ID is stored to the table and a registration card is generated with a bar code (the barcode can be scanned to access the donor/patient id) .

4) Donor/Patient Updation

In update, the donor or patient details can be updated based on the user's choice and the same will be reflected in the main table.

5) Checking Availability

This option enables the user to view the availability, the user can see which blood group is available in what quantity and also the donor's details.

Software and Hardware Requirements

1. Operating System: Windows 10 and above.
2. Processor: Pentium (Any) or AMD Athlon (3800+-4200u+Dual Core)
3. RAM: 512MB +Hard Disk: Sata 40GB or above.
4. Any Personal Computer or Laptop
5. Python IDLE 3.8 or above.
6. Mysql software connected with Python IDLE

Program Code

```
from PIL import Image, ImageDraw, ImageFont
import mysql.connector as sqlid
import os
import qrcode
mycon=sqlid.connect(host='localhost',user='root',passwd='Abhinav@28',databa
se='project')
if mycon.is_connected():
   print("WELCOME TO".center(70))
else:
   print("error")
s='BLOOD DONATION CENTRE'
m=s.center(65)
print(m)


#Functions
def donor_r():
   ds=input("\n\n\nDo you have a history of the mentioned diseases : \nHIV-1,
HIV-2, human T-lymphotropic virus (HTLV)-I, HTLV-II, \nhepatitis C virus,
hepatitis B virus, \nWest Nile Virus (WNV), and T. pallidum (syphilis)? Y/N")
   if ds=='Y' or ds=='y':
        print("Sorry ,you are ineligible to donate blood :( ")
   else:
         import random
         a=random.randint(6,20)
         b=random.randint(1,5)
         d='D'+str(a)+str(b)
         d_nam=input("\nEnter donor name:")
         d_bg=input("\nEnter blood group:")
         gen=input("\nEnter gender:")
         age1=int(input("\nEnter age"))
         dob1=input("\nEnter dob")
         ph=input("\nEnter phone number:")
         add=input("\nEnter address:")
         qt=float(input("\nEnter volume donated(ml):"))
         c=mycon.cursor()
         ab="insert into donor_records1 values(%s,%s,%s,%s,%s,%s)"
         t=(d,d_nam,d_bg,gen,ph,add)
         c.execute(ab,t)
         bb="insert into Avlb values(%s,%s,%s,%s,%s)"
```

```
t1=(d,d_nam,ph,d_bg,qt)
c.execute(bb,t1)
mycon.commit()
print("\n\n\n** Donor Registered Successfully **",end='\n')
print("\n\nDonor id is:",d)

# retrieving data for card
image = Image.new('RGB', (1000,900), (255, 255, 255))
draw = ImageDraw.Draw(image)
font = ImageFont.truetype('//Users//Admin//Desktop//arial.ttf', size=50)
(x, y) = (50, 50)
#id  no
id_no='Id no:'+''+d
color = 'rgb(0, 0, 0)'# black color
font = ImageFont.truetype('//Users//Admin//Desktop//arial.ttf', size=50)
draw.text((x, y), id_no, fill=color, font=font)
(x, y) = (50, 250)
#name
name='Name:'+''+d_nam
color = 'rgb(0, 0, 0)' # black color
font = ImageFont.truetype('//Users//Admin//Desktop//arial.ttf', size=50)
draw.text((x, y), name, fill=color, font=font)
(x, y) = (50, 350)
#gender
gender = 'Gender:'+''+gen
color = 'rgb(0, 0, 0)' # black color
draw.text((x, y), gender, fill=color, font=font)
(x, y) = (50, 450)
#age
age = 'Age:'+''+str(age1)
color = 'rgb(0, 0, 0)' # black color
draw.text((x, y), age, fill=color, font=font)
(x, y) = (50, 550)
#dob
dob= 'D.O.B:'+''+dob1
color = 'rgb(0, 0, 0)' # black color
draw.text((x, y), dob, fill=color, font=font)
(x, y) = (50, 650)
#bg
blood_group = 'Blood Group:'+''+d_bg
color = 'rgb(255, 0, 0)' # red colour
draw.text((x, y), blood_group, fill=color, font=font)
```

```
        (x, y) = (50, 750)
        #phone number
        ph_number = 'Phone:'+"+str(ph)
        color = 'rgb(0, 0, 0)' # black color
        draw.text((x, y), ph_number, fill=color, font=font)
        (x, y) = (50, 850)
        # address
        address = 'Address:'+"+add
        color = 'rgb(0, 0, 0)' # black color
        draw.text((x, y), address, fill=color, font=font)
        #qrcode
        img = qrcode.make(str(id_no))   # this info. is added in QR code, also
add other things
        img.save(str(id_no)+'.bmp')
        im = Image.open(str(id_no)+'.bmp') #25x25
        image.paste(im,(600,350))
        image.save(name+'.png')
        image.show(name+'.png')
        print(('\n\n\nYour ID Card Successfully created in a PNG file
'+name+'.png, Print it for future reference'))


def donor_u():
    cursor=mycon.cursor()
    d=input("enter donor_id:")
    ch1=input("What do you want to update?\nn for name\nb for blood group\ng
for gender\np for phone no\na for address")
    if ch1=='n' or ch1=='N':
        st=input("enter new name:")
        s="Update donor_records set donor_name=%s where donor_id=%s"
        t1=(st,d)
        cursor.execute(s,t1)
        mycon.commit()
        print("Your data has been updated successfully :)",end='\n')
    elif ch1=='b' or ch1=='B':
        st=input("enter new blood group:")
        s="Update donor_records set blood_group=%s where donor_id=%s"
        t1=(st,d)
        cursor.execute(s,t1)
        mycon.commit()
        print("Your data has been updated successfully :)",end='\n')
    elif ch1=='p' or ch1=='P':
```

```
            st=input("enter new phone no:")
            s="Update donor_records set phone_no=%s where donor_id=%s"
            t1=(st,d)
            cursor.execute(s,t1)
            mycon.commit()
            print("Your data has been updated successfully :)",end='\n')
    elif ch1=='a' or ch1=='A':
            st=input("enter new address:")
            s="Update donor_records set address=%s where donor_id=%s"
            t1=(st,d)
            cursor.execute(s,t1)
            mycon.commit()
            print("Your data has been updated successfully :)",end='\n')
    else:
           print("Invalid choice")


def patient_r():
    import random
    a=random.randint(6,10)
    b=random.randint(1,5)
    p='P'+str(a)+str(b)
    p_nam=input("Enter patient name:")
    p_bg=input("Enter blood group:")
    gen=input("Enter gender:")
    age1=input("Enter  Age")
    dob1=input('Enter Date of birth')
    ph=input("Enter phone number:")
    add=input("Enter address:")
    c=mycon.cursor()
    ab="insert into patient_records values(%s,%s,%s,%s,%s,%s)"
    t=(p,p_nam,p_bg,gen,ph,add)
    c.execute(ab,t)
    mycon.commit()
    print('** Patient Registered Successfully **')
    print("Patient Id is:",p)
    # retreiveing data for card
    image = Image.new('RGB', (1000,900), (255, 255, 255))
    draw = ImageDraw.Draw(image)
    font = ImageFont.truetype('//Users//abhinavbinoy//Desktop//arial.ttf',
size=50)
    (x, y) = (50, 50)
```

```
    #id  no
    id_no='Id no:'+"+p
    color = 'rgb(0, 0, 0)'# black color
    font = ImageFont.truetype('//Users//abhinavbinoy//Desktop//arial.ttf',
size=50)
    draw.text((x, y), id_no, fill=color, font=font)
    (x, y) = (50, 250)
    #name
    name='Name:'+"+p_nam
    color = 'rgb(0, 0, 0)' # black color
    font = ImageFont.truetype('//Users//abhinavbinoy//Desktop//arial.ttf',
size=50)
    draw.text((x, y), name, fill=color, font=font)
    (x, y) = (50, 350)
    #gender
    gender = 'Gender:'+"+gen
    color = 'rgb(0, 0, 0)' # black color
    draw.text((x, y), gender, fill=color, font=font)
    (x, y) = (50, 450)
    #age
    age = 'Age:'+"+str(age1)
    color = 'rgb(0, 0, 0)' # black color
    draw.text((x, y), age, fill=color, font=font)
    (x, y) = (50, 550)
    #dob
    dob= 'D.O.B:'+"+dob1
    color = 'rgb(0, 0, 0)' # black color
    draw.text((x, y), dob, fill=color, font=font)
    (x, y) = (50, 650)
    #bg
    blood_group = 'Blood Group:'+"+p_bg
    color = 'rgb(255, 0, 0)' # red colour
    draw.text((x, y), blood_group, fill=color, font=font)
    (x, y) = (50, 750)
    #phone number
    ph_number = 'Phone:'+"+str(ph)
    color = 'rgb(0, 0, 0)' # black color
    draw.text((x, y), ph_number, fill=color, font=font)
    (x, y) = (50, 850)
    # address
    address = 'Address:'+"+add
    color = 'rgb(0, 0, 0)' # black color
```

```
    draw.text((x, y), address, fill=color, font=font)
    #qrcode
    img = qrcode.make(str(id_no))   # this info. is added in QR code, also add
other things
    img.save(str(id_no)+'.bmp')
    im = Image.open(str(id_no)+'.bmp') #25x25
    image.paste(im,(600,350))
    image.save(name+'.png')
    image.show(name+'.png')
    print(('\n\n\nYour ID Card Successfully created in a PNG file '+name+'.png,
Print it for future reference'))



def patient_u():
        cursor=mycon.cursor()
        d=input("enter patient_id:")
        ch1=input("What do you want to update?\nn for name\nb for blood
group\ng for gender\np for phone no\na for address")
        if ch1=='n' or ch1=='N':
            st=input("enter new name:")
            s="Update patient_records set Patient_Name=%s where
Patient_Id=%s"
            t1=(st,d)
            cursor.execute(s,t1)
            mycon.commit()
            print("Your data has been updated successfully :)")
        elif ch1=='b' or ch1=='B':
            st=input("enter new blood group:")
            s="Update patient_records set Bloodgrp=%s where Patient_Id=%s"
            t1=(st,d)
            cursor.execute(s,t1)
            mycon.commit()
            print("Your data has been updated successfully :)")
        elif ch1=='p' or ch1=='P':
            st=input("enter new phone no:")
            s="Update patient_records set Phone_no=%s where Patient_Id=%s"
            t1=(st,d)
            cursor.execute(s,t1)
            mycon.commit()
            print("Your data has been updated successfully :)")
        elif ch1=='a' or ch1=='A':
```

```
            st=input("enter new address:")
            s="Update patient_records set Address=%s where Patient_Id=%s"
            t1=(st,d)
            cursor.execute(s,t1)
            mycon.commit()
            print("Your data has been updated successfully :)")
        else:
          print("Invalid choice")


def main_pgm():
    ch=input("\n\n\nEnter d for DONOR \np for PATIENT\nEnter a to Check
BLOOD AVAILABILITY:")
    if ch=='d'or ch=="D":
      s=input('\n\nEnter R to Register \nU to Update:')
      if s=='R' or s=='r':
        donor_r()
        ch5=input('\n\nReturn to main menu y/n')
        if ch5=='y':
           main_pgm()
        else:
          print("\n\n^^  Thank you , Have a nice day!   ^^ ")



      elif s=='U' or s=='u':
         donor_u()
         ch5=input('Return to main menu y/n')
         if ch5=='y':
           main_pgm()
         else:
          print("^^  Thank you , Have a nice day!   ^^ ")


    elif ch=='p' or ch=='P':
        ch2=input("Enter R To Register \nEnter U To Update ")
        if ch2=='R' or ch2=='r':
              patient_r()
              ch5=input('Return to main menu y/n')
              if ch5=='y':
                main_pgm()
              else:
```

```
                print("^^  Thank you , Have a nice day!   ^^ ")

        elif ch2=='u' or ch2=='U':
                patient_u()
                ch5=input('Return to main menu y/n')
                if ch5=='y':
                 main_pgm()
                else:
                 print("^^ Thank you , Have a nice day!   ^^ ")

    elif ch=='a' or 'A':
            cursor=mycon.cursor()
            p=input("\nEnter patient id:")
            s='select Bloodgrp from patient_records where patient_id=%s'
            t1=(p,)
            cursor.execute(s,t1)
            data=cursor.fetchall()
            x=data[0][0]
            s2='select * from Avlb where blood_grp=%s'
            t2=(x,)
            cursor.execute(s2,t2)
            d2=cursor.fetchall()
            print("\n")
            print("\n\n\nAvailability for the patient:-")
            print("\n\n\nDonor Id\tDonor Name\tPhone no\t\tBlood
group\tQuantity")
            for j in d2:
                print(j[0],'\t','-','\t',j[1],'\t','-','\t',j[2],'\t','-','\t',j[3],'\t','-','\t',j[4])
            ch5=input('\nReturn to main menu y/n')
            if ch5=='y':
                main_pgm()
            else:
                print("^^  Thank you , Have a nice day!   ^^ ")


    else:
     print("invalid input")

main_pgm()
```

Output

Donor Registration:

```
                    WELCOME TO
              BLOOD DONATION CENTRE


Enter d for DONOR
p for PATIENT
Enter a to Check BLOOD AVAILABILITY:d


Enter R to Register
U to Update:r



Do you have a history of the mentioned diseases :
HIV-1, HIV-2, human T-lymphotropic virus (HTLV)-I, HTLV-II,
hepatitis C virus, hepatitis B virus,
West Nile Virus (WNV), and T. pallidum (syphilis)? Y/Nn

Enter donor name:Akash

Enter blood group:o+ve

Enter gender:m

Enter age17

Enter dob20/10/2004

Enter phone number:908736342

Enter address:Royal Avenue,Chennai

Enter volume donated(ml):120



** Donor Registered Successfully **

Donor id is: D85


Your ID Card Successfully created in a PNG file Name:Akash.png, Print it for future reference

Return to main menu y/nn

^^  Thank you , Have a nice day!   ^^
```

Donor's ID card:

Id no:D85

Name:Akash

Gender:m

Age:17

D.O.B:20/10/2004

Blood Group:o+ve

Phone:908736342

Address:Royal Avenue,Chennai

Patient's Registration:

```
                    WELCOME TO
                BLOOD DONATION CENTRE


Enter d for DONOR
p for PATIENT
Enter a to Check BLOOD AVAILABILITY:p


Enter R To Register
Enter U To Update r


Enter patient name:Adam


Enter blood group:o-ve


Enter gender:m


Enter  Age36


Enter Date of birth04/12/1996


Enter phone number:7895464356


Enter address:Defence Colony,Bangalore


** Patient Registered Successfully **
```

```
** Patient Registered Successfully **

Patient Id is: P65


Your ID Card Successfully created in a PNG file Name:Adam.png, Print it for future reference

Return to main menu y/n
```

Id no:P65

Name:Adam

Gender:m

Age:36

D.O.B:04/12/1996

Blood Group:o-ve

Phone:7895464356

Address:Defence Colony,Bangalore

```
mysql> select * from donor_records1;
+----------+------------+-------------+--------+------------+----------------------------+
| donor_id | donor_name | blood_group | gender | phone_no   | address                    |
+----------+------------+-------------+--------+------------+----------------------------+
| D112     | Daksh      | o+ve        | m      | 9585192929 | Pallakaad,Kerala           |
| D113     | Tanisha    | b+ve        | f      | 9873635173 | Mehra,Sulur                |
| D115     | Rita       | a+ve        | f      | 9876453210 | Sai Baba Colony,Sulur      |
| D121     | Justin     | b+ve        | m      | 9879812374 | Gandhinagar,Gujarat        |
| D124     | Shyam      | ab+ve       | m      | 9870251678 | Unishire,Banglore          |
| D133     | Krishan    | b+ve        | m      | 9801267240 | Abdul Rahim Road,Coimbatore |
| D153     | Tanusri    | b-ve        | f      | 9870374651 | Ramnathapuram,Coimbatore   |
| D175     | Iann Boggs | ab+ve       | m      | 9874563421 | Sungam,Coimbatore          |
| D61      | Kina       | o+ve        | f      | 9870914237 | Perur,Coimbatore           |
| D62      | Aman       | b+ve        | m      | 8927262622 | Kalpa Vihar,Chennai        |
| D65      | Shrivanth  | o-ve        | m      | 9875643201 | Race Course Road,Coimbatore |
| D73      | Ben        | b-ve        | m      | 7895672537 | Vayu vihar,Chennai         |
| D75      | Ariana     | a-ve        | f      | 9876074321 | Gandhipuram,Coimbatore     |
| D83      | Billy      | a+ve        | m      | 9870678932 | Chandni Chauk,Delhi        |
| D85      | Akash      | o+ve        | m      | 908736342  | Royal Avenue,Chennai       |
| D91      | Darshan    | o+ve        | m      | 9014876208 | Kalampalayam,Coimbatore    |
| D92      | Sam        | b+ve        | f      | 9870456789 | RS Puram,Coimbatore        |
| D94      | Adam       | b-ve        | m      | 9870689234 | Avinashi,Coimbatore        |
+----------+------------+-------------+--------+------------+----------------------------+
18 rows in set (0.00 sec)
```

```
mysql> select * from Avlb;
+----------+------------+------------+-----------+----------+
| donor_id | donor_name | phone_no   | blood_grp | Quantity |
+----------+------------+------------+-----------+----------+
| D85      | Akash      | 908736342  | o+ve      |   120.00 |
| D62      | Aman       | 8927262622 | b+ve      |   134.00 |
| D73      | Ben        | 7895672537 | b-ve      |   100.50 |
| D124     | Shyam      | 9870251678 | ab+ve     |   112.50 |
| D113     | Tanisha    | 9873635173 | b+ve      |   115.30 |
| D175     | Iann Boggs | 9874563421 | ab+ve     |   123.90 |
| D115     | Rita       | 9876453210 | a+ve      |   101.10 |
| D153     | Tanusri    | 9870374651 | b-ve      |   120.80 |
| D65      | Shrivanth  | 9875643201 | o-ve      |   150.90 |
| D92      | Sam        | 9870456789 | b+ve      |   101.30 |
| D83      | Billy      | 9870678932 | a+ve      |   200.10 |
| D121     | Justin     | 9879812374 | b+ve      |   109.90 |
| D75      | Ariana     | 9876074321 | a-ve      |   123.60 |
| D94      | Adam       | 9870689234 | b-ve      |   179.70 |
| D61      | Kina       | 9870914237 | o+ve      |   152.90 |
| D152     | Sachin     | 9870931679 | c+ve      |   172.90 |
| D133     | Krishan    | 9801267240 | b+ve      |   200.80 |
| D91      | Darshan    | 9014876208 | o+ve      |   162.40 |
| D112     | Daksh      | 9585192929 | o+ve      |   250.70 |
+----------+------------+------------+-----------+----------+
```

Checking Availability:

```
Enter d for DONOR
p for PATIENT
Enter a to Check BLOOD AVAILABILITY:a


nter patient id:P102



Availability for the patient:-


Donor Id        Donor Name              Phone no                Blood group     Quantity
D65      -       Shrivanth       -       9875643201      -       o-ve    -       150.90

Return to main menu y/nn

^^  Thank you , Have a nice day!   ^^
```

Donor Updation:

```
                    WELCOME TO
                BLOOD DONATION CENTRE


Enter d for DONOR
p for PATIENT
Enter a to Check BLOOD AVAILABILITY:d


Enter R to Register
U to Update:u
enter donor_id:D65
What do you want to update?
n for name
b for blood group
g for gender
p for phone no
a for addressp


Enter new phone no:8787555666


Your data has been updated successfully :)


Return to main menu y/n
```

Patient updation:

```
                        WELCOME TO
                  BLOOD DONATION CENTRE


Enter d for DONOR
p for PATIENT
Enter a to Check BLOOD AVAILABILITY:p


Enter R To Register
Enter U To Update u


Enter patient_id:P93
What do you want to update?
n for name
b for blood group
g for gender
p for phone no
a for addressn


Enter new name:Anna


Your data has been updated successfully :)


Return to main menu y/n
```

Updated Tables:

```
mysql> select * from patient_records;
+------------+--------------+----------+--------+------------+--------------------------+
| patient_id | Patient_name | Bloodgrp | gender | Phone_no   | Address                  |
+------------+--------------+----------+--------+------------+--------------------------+
| P102       | Priya        | o-ve     | f      | 9087654321 | Delhi cantt,Delhi        |
| P193       | Niveditha    | ab-ve    | f      | 7676754545 | Amar vilas,Trivandrum    |
| P195       | Joseph       | ab-ve    | m      | 9863567832 | 100ft road,Coimbatore    |
| P65        | Adam         | o-ve     | m      | 7895464356 | Defence Colony,Bangalore |
| P72        | Dhvani       | b+ve     | f      | 8928332222 | Andheri west,Mumbai      |
| P83        | Nivin        | o+ve     | m      | 9872727291 | Gulmohar,Kolkata         |
| P85        | Alice        | ab+ve    | f      | 7890333222 | Vayu vihar,Chennai       |
| P92        | Akhil        | o+ve     | m      | 8927282    | gandhinagar              |
| P93        | Anna         | b+ve     | f      | 903838221  | south st                 |
| P94        | Akram        | b-ve     | m      | 9585378301 | Race Course,Coimbatore   |
+------------+--------------+----------+--------+------------+--------------------------+
10 rows in set (0.00 sec)

mysql> select * from donor_records1;
+----------+------------+-------------+--------+------------+-----------------------------+
| donor_id | donor_name | blood_group | gender | phone_no   | address                     |
+----------+------------+-------------+--------+------------+-----------------------------+
| D112     | Daksh      | o+ve        | m      | 9585192929 | Pallakaad,Kerala            |
| D113     | Tanisha    | b+ve        | f      | 9873635173 | Mehra,Sulur                 |
| D115     | Rita       | a+ve        | f      | 9876453210 | Sai Baba Colony,Sulur       |
| D121     | Justin     | b+ve        | m      | 9879812374 | Gandhinagar,Gujarat         |
| D124     | Shyam      | ab+ve       | m      | 9870251678 | Unishire,Banglore           |
| D133     | Krishan    | b+ve        | m      | 9801267240 | Abdul Rahim Road,Coimbatore |
| D153     | Tanusri    | b-ve        | f      | 9870374651 | Ramnathapuram,Coimbatore    |
| D175     | Iann Boggs | ab+ve       | m      | 9874563421 | Sungam,Coimbatore           |
| D61      | Kina       | o+ve        | f      | 9870914237 | Perur,Coimbatore            |
| D62      | Aman       | b+ve        | m      | 8927262622 | Kalpa Vihar,Chennai         |
| D65      | Shrivanth  | o-ve        | m      | 8787555666 | Race Course Road,Coimbatore |
| D73      | Ben        | b-ve        | m      | 7895672537 | Vayu vihar,Chennai          |
| D75      | Ariana     | a-ve        | f      | 9876074321 | Gandhipuram,Coimbatore      |
| D83      | Billy      | a+ve        | m      | 9870678932 | Chandni Chauk,Delhi         |
| D85      | Akash      | o+ve        | m      | 908736342  | Royal Avenue,Chennai        |
| D92      | Sam        | b+ve        | f      | 9870456789 | RS Puram,Coimbatore         |
| D94      | Adam       | b-ve        | m      | 9870689234 | Avinashi,Coimbatore         |
| D95      | Saran      | o+ve        | m      | 9827228282 | Red fields,Coimbatore       |
+----------+------------+-------------+--------+------------+-----------------------------+
18 rows in set (0.00 sec)

mysql>
```

Reference

1. https://pypi.org/
2. https://en.wikipedia.org/wiki/
3. Computer Science With Python (Sumita Arora Class 12)