## PRESIDENCY UNIVERSITY

## **PYTHON PROJECT**

ON

## BLOOD BANK MANAGEMENT SYSTEM



#### **PROJECT**

#### BY

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# <u>ABSTRACT</u>

As we being living in the contemporary world should keenly give approach to the Health issues typically. The number of persons who are in need of blood are increasing in large number day by day. In order to help people who are in need of blood, Online Blood Bank Management can be used effectively for getting the details of blood donors having the same blood group.

## **INTRODUCTION**

The process of building systems has always been complex with system becoming larger, the costs and complexities get multiplied. So the need for better methods for developing systems is widely recognized to be effective and the applied model should meet a few basic requirements. The model should be structured and cover the entire system development process from feasibility study to programming, testing and implementation.

# **DESCRIPTION**

The Donor and the Recipient plays the major role. There are types of blood that we have to notice when the recipient indulges in it. The emphasis is given more on the Blood Group.

### TYPES OF BLOOD GROUP

- > Abpositive
- > Abnegative
- > Opositive
- > Onegative
- > Apositive
- > Anegative
- > Bpositive
- > Bnegative

# **WORKING ENVIRONMENT**

## **Software Configuration:**

Operating System : Windows 10

Web server : Personal Web Server

Web Browser : Internet Explorer

Designing Tool : Python

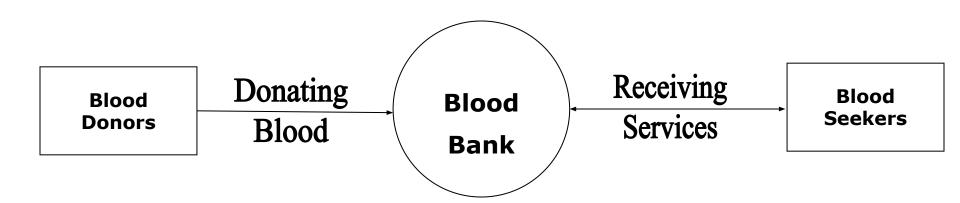
Server Side Scripting: Python 3.6

Backend : Spyder

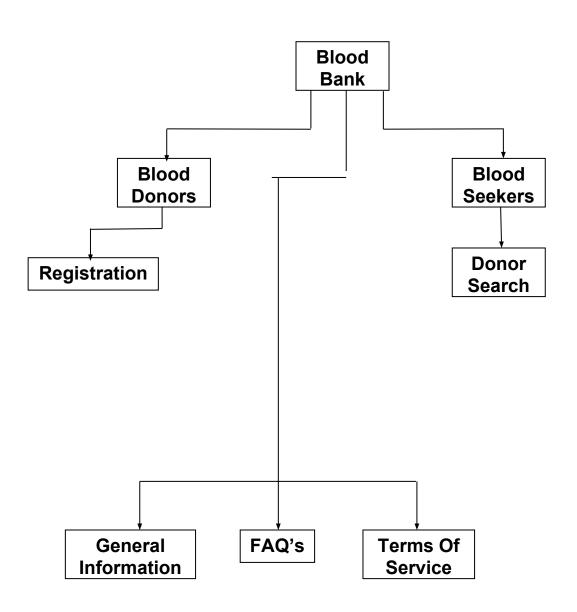
# **PACKAGES USED**

- 1. xlrd
- 2. openpyxl
- 3. datetime

## **DATA FLOW DIAGRAM**



#### SYSTEM FLOW MODEL

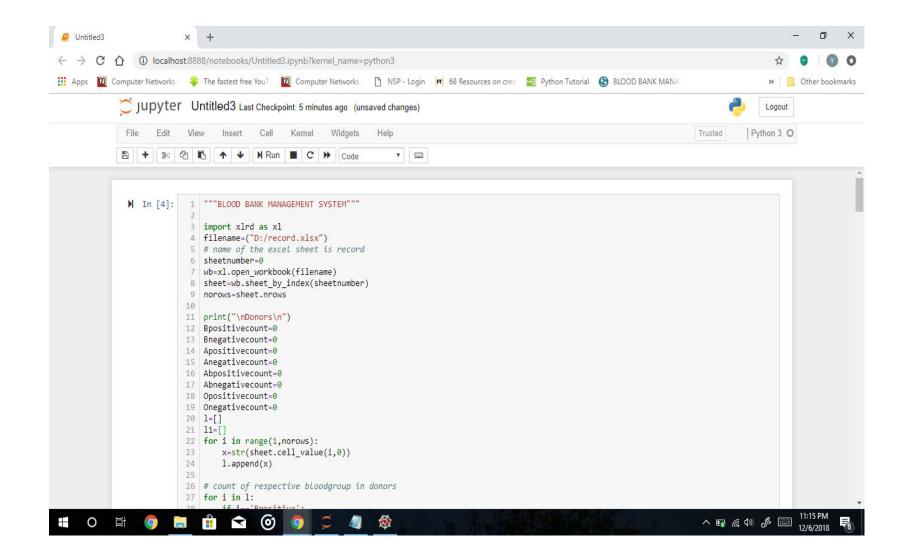


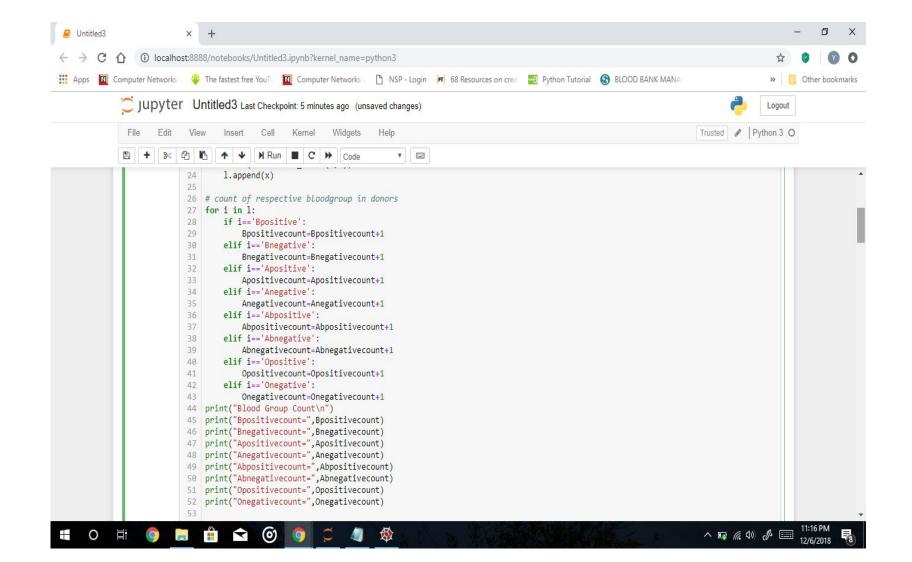
## **DATABASE**

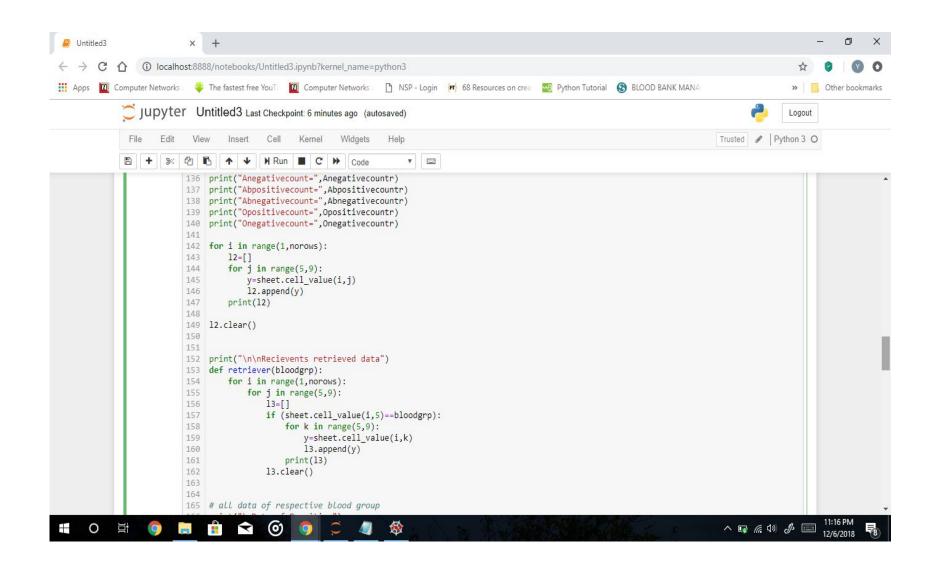
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	A	В	С	D	E	F	G	Н	İ	J
1	BLOOD GROUP	DONORS NAME	DONORS AGE	DATE		R_BLOOD GROUP	RECIPIENT NAME	RECIPIENT	DATE	
2	Bpositive	Jeny	31	2016		Opositive	Suman	21	2016	
3	Bnegative	Akshay	42	2016		Bpositive	Kumari	32	2016	
4	Bpositive	Satish	50	2016		Anegative	Rajashwari	24	2016	
5	Opositive	Mahesh	26	2016		Bnegative	Likitha	34	2016	
3	Onegative	Ramesh	23	2016		Abpositive	Karunya	26	2016	
7	Abpositive	Kamlesh	29	2016		Opositive	Nawaz	74	2016	
3	Opositive	Nagesh	32	2016		Apositive	Jishnu	45	2016	
9	Onegative	Ramya	36	2016		Bpositive	Mownesh	65	2016	
0	Bpositive	Rohit	30	2016		Opositive	Divya	45	2016	
1	Abnegative	Rakesh	25	2016		Abnegative	Varshini	35	2016	
2	Apositive	Hari	27	2016		Onegative	Keerthana	35	2016	
3	Anegative	Sankalp	24	2016		Onegative	Shrujana	65	2016	
4	Opositive	Shaila	25	2016		Anegative	Daksh	24	2017	
5	Bnegative	Manjula	33	2017		Bpositive	Bhavik	68	2017	
6	Apositive	Raju	32	2017		Apositive	Vignesh	45	2017	
7	Bpositive	kousalya	24	2017		Opositive	Sheetal	65	2017	
8	Onegative	Gangalakshmi	23	2017		Abnegative	Reena	66	2017	
9	Anegative	Sangeetha	19	2017		Bpositive	Shawn	73	2017	
0	Abnegative	Maharaj	32	2017		Onegative	Rinz	25	2017	
1	Bpositive	Luvina	37	2017		Bnegative	Damodaran	34	2017	
2	Opositive	Michael	26	2017		Bnegative	Salman	55	2017	
3	Bnegative	Sony	33	2017		Abpositive	Joanah	64	2017	
4	Abpositive	Shiny	31	2017		Apositive	Jotham	69	2018	
5	Bnegative	Pushpa	23	2017		Opositive	Julia	70	2018	
6	Apositive	Nikhil	22	2018		Bpositive	Akila	77	2018	
7	Abpositive	Sushanth	19	2018		Bnegative	Neha	34	2018	
8	Bnegative	Antony	43	2018		Abpositive	Alsenan	55	2018	
9	Opositive	Divesh	23	2018		Anegative	Sarah	43	2018	
0	Bpositive	Mohammad	34	2018		Onegative	Joel	18	2018	

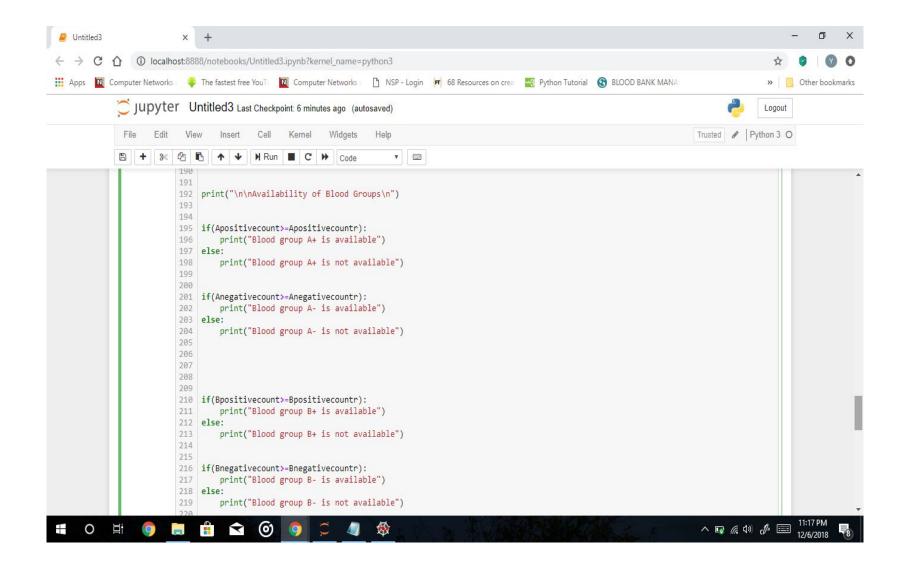
Explore

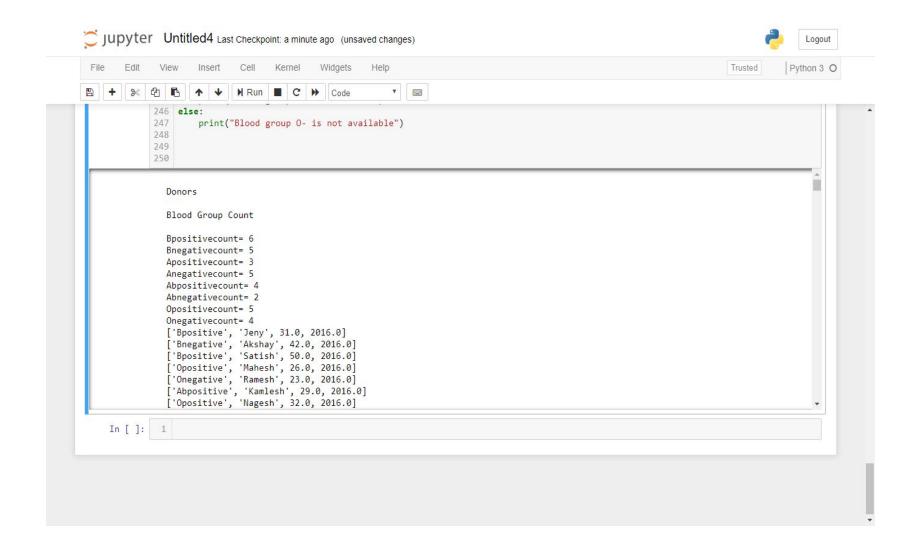
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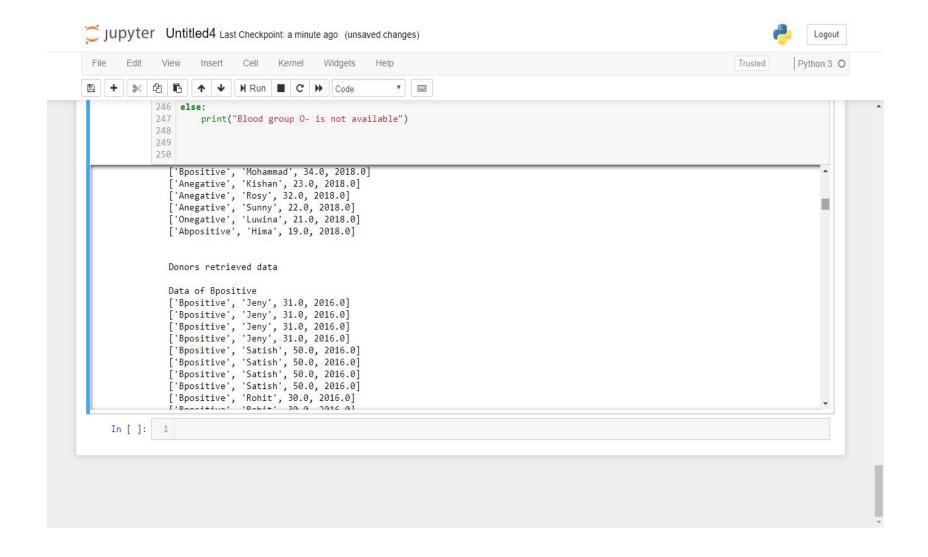


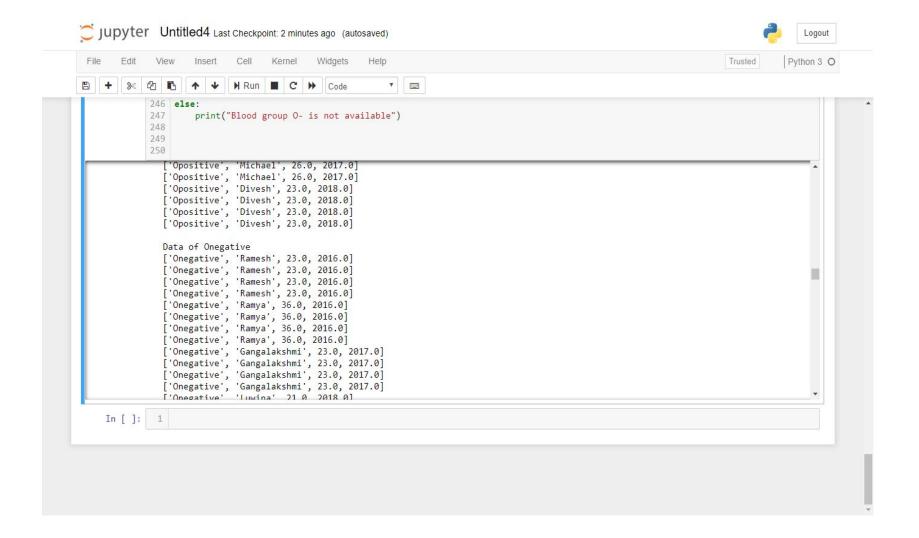


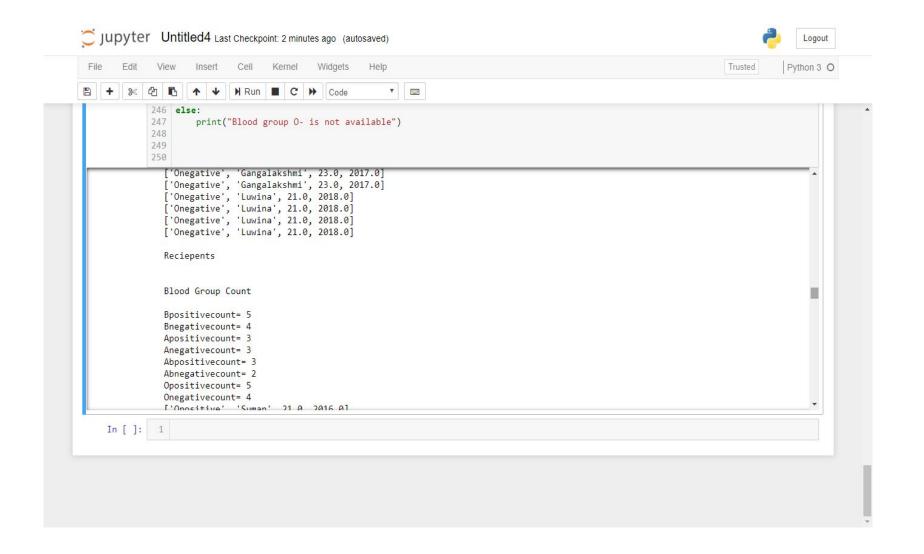


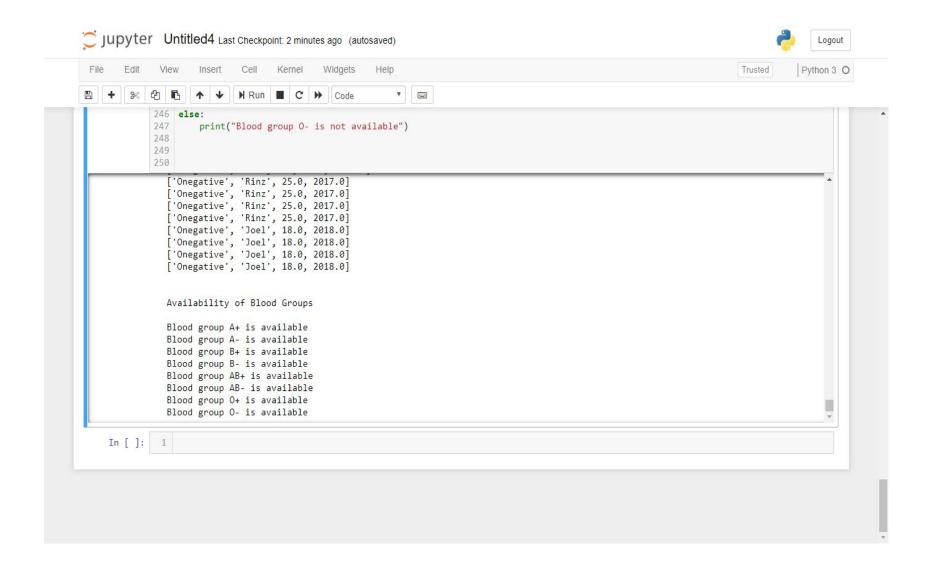












#### APPLICATIONS AND DRAWBACKS

With the help of Online Blood Bank Management, people who are having the thought of donating blood gets registered in Online Blood Bank giving his details. Online Blood Bank Management site is available to everyone easily. It preserves the documents and updates the value when ever the donor or recipient enhances.

The optimization of the code is slow and to implement this to the large group of people is in fact very difficult.

#### **FUTURE ENHANCEMENT**

To optimize the code and use SQL Database and implement in the large scale and synchronize to the very best of the enhancement.

To be able to reach even to the very end of the city. As there was a little number of contact person's information given, some people may face difficulty in getting blood fast. So i like to gather more information regarding the contact persons in other cities as well as villages and will provide much more services for the people and help everyone with humanity.

## <u>CONCLUSION</u>

This project has given us an ample opportunity to design, code, test and implements an application. This has helped in putting into practice of various Software Engineering principles and Database Management concepts like maintaining integrity and consistency of data.

# THANK YOU