

# **A Project Report on BLOOD BANK MANAGEMENT SYSTEM**



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## **Submitted to**

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as a part of

**Mini Project in E3**

# Acknowledgement

We would like to express my sincere gratitude to **Mr. Satyanandaram Nandigam** our project internal guide for valuable suggestions and keen interest throughout the progress of our course of research.

We are grateful to **P.Harinath HOD CSE** , for providing excellent computing facilities and a congenial atmosphere for progressing with our project.

At the outset, we would like to thank **Rajiv Gandhi University of Knowledge and Technologies, R.K Valley** for providing all the necessary resources for the successful completion of our course work. At last, but not the least, we thank our colleagues, our classmates and other students for their physical and moral support.

**With sincere regards,**

A Udaya Sree,

A Kavya,

K Cherishma,

M Bhuvana Rekha.



## **Certificate**

This is to certify that the report entitled “**Blood Bank Management System**” submitted by A Udaya Sree, A Kavya, K Cherishma, M Bhuvana Rekha in partial fulfillment of the requirement for the award of Bachelor of Technology in Computer Science and Engineering is a bona fide work carried out by us under his supervision and guidance.

The report hasn't been submitted previously in part or in full to this or any other university or institution for the award of any degree.

**Mr. Satyanandaram Nandigam,**  
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## Declaration

We **A Udaya Sree, A Kavya , K Cherishma , M Bhuvana Rekha** here by declare that this report entitled “**Blood Bank Management System**” submitted by us under the guidance and supervision of Mr.P.Harinath, is a bonafide work. We also declare that it has not been submitted previously in part or in full to this university or other university or institution for the award of any degree or diploma.

Date: \_\_-09-2022

Place: RK Valley

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## **Abstract**

Blood Bank Management System (BBMS) is a browser based system that is designed to store, process, retrieve and analyze information concerned with the admin within a blood bank. This project aims at maintaining all the information pertaining to blood donors, different blood groups available in each blood bank and help them manage in a better way. Aim is to provide transparency in this field, make the process of obtaining blood from a blood bank hassle free and corruption free and make the system of blood bank management effective. The donors who are interested in donating blood has to register in the database. The requirement of the blood has to be requested and we supply the Blood. Then blood units status is updated whether they are available or not.

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# **1. Introduction**

## **1.1 Problem Statement**

On the day following a blood donation, the Blood Bank Testing Unit tests all blood for blood type and potential viral agents. They send the results of these tests to the Blood Inventory (another unit of the Centre). For each tested blood unit, if the tests indicate that the blood may be contaminated with a viral agent, the blood unit is destroyed. This is indicated on the test form.

The Blood Bank distributes blood to various patients requesting blood. Requests usually come in for specific blood types. The Blood Bank prepares refrigerated containers of these units and distributes them to the patient when they place the order. The Blood Bank receives request specific units of blood to supply to the patient from the Blood Bank. When the order is filled, the Blood Bank Manager accepts the order and sends blood to the Patients.

## **1.2 Purpose**

The Blood Bank Management system is a great project. This project is designed for successful completion of a project on blood bank management system. The basic building aim is to provide blood donation service to the city recently. Blood Bank Management system is a web-based application that is designed to store, process, retrieve and analyse information concerned with the administrative and inventory management within a Blood Bank.

This project aims at maintaining all the information pertaining to blood donors, different blood groups available in every Blood Bank and help them manage in a better way.

Project aim is to provide transparency in this field, make the process of obtaining blood from a Blood Bank hassle-free and corruption-free and make the system of Blood Bank Management effective

### **1.3 Scope**

The specification builds on the experience of IT technology in blood transfusion that is currently available and informs both Connecting for Health (CfH) and commercial companies producing both hardware and software.

The main objective of this specification is to support the automated tracking of blood products from the initial collection of the blood unit to the final ordering and purchase of the units by hospitals.

## **2. Overall Description**

### **2.1 Product Perspective**

This system includes online components. The collection of blood will be manual through Blood Bank. The donor can either register on the Blood Bank website on his own or can visit the Blood Bank. An online database is maintained with all the information about the donors. Once the blood is collected it is stored in a safe place. An online Blood Inventory Database is maintained as well for the Blood Units collected.

The blood samples are tested to determine whether they are fit to be used or not. Hospitals place orders from this Blood Bank. A record of the order and payment is maintained by both parties. Once the order is placed the Blood Bank Manager sends the receipt. Once the hospital makes the payment the order is delivered by the Blood Bank staff.



## **2.2 Product Function**

According to this product, a Donors can create an account back at home or register themselves at the spot of blood camp before donating blood. The Hospital Manger has to register the Hospital which act as an acceptor here. The details of the blood inventory i.e., the availability of a particular type of blood is regularly updated and maintained by the ADMIN. It is a confidential data so the access is only with the administrators. The registered hospital can place an online order. The order is processed by the Inventory Manager who can check the database of the blood units. If the required blood type and the amount is available, it notifies the corresponding hospitals. When the Hospital Manager confirms the Order, the details are being sent to it.

## **2.3 User Characteristics**

There are mainly three users interacting with each other in this system: Donor, Patient, Admin.

The Donors register through the website or at the spot of blood donation. The Admin assists them and maintain the details of the Donors. The Admin updates the donor database.

The Admin who collects the blood units from the donors with proper procedure. After the collection and packaging of the blood. The Doctor sends the samples to the Lab Technician for Blood testing and the rest of the blood units to the blood inventory. The Lab Technician carries out test on eachblood sample. He sends the blood report to the Inventory Manager.

The Admin discards the unfit blood and store the healthy blood in the respective places.

Then he/she updates the required changes in the blood inventory database. He/she keeps a track of the date of the blood was newly stored in the inventory and its expiry date. The Patient places an order for the blood units as per requirement. The Admin go throughs the order.

Admin checks and maintains the details.

## 2.4 Constraints

The Donor and the acceptor are constrained to create an account first to avail the services. The internet connection is also a constraint for this web application. The web application is also constrained by the database capacity so it works well with a smaller number of donors .

The access to manage the databases are different for different people. The Admin is given the access to maintain the database of the registered donors and Patients.

## 2.5 Assumptions and Dependencies

It is assumed that the users have enough resources to run the web application i.e a mobile phone or a computer that supports the required functions.

The web application uses Django for creating and managing the database.

The front end is designed with the help of HTML and CSS.

# 3. Requirements

## 3.1 Functional Requirements

### *1. Access Website:*

User should be able to access web-application through either an application browser or similar service on the mobile phone or computer. There should not be any limitation to access web-application.

### *2. User Registration:*

Given that user has accessed web-application, then the user should be able to register through the web-application. The donor user must provide first name, gender, blood group, location, contact , username and password.

### *3. User log-in:*

Given that the user has registered, then the user should be able to login to the web-application. The login information will be stored on the database for future use.

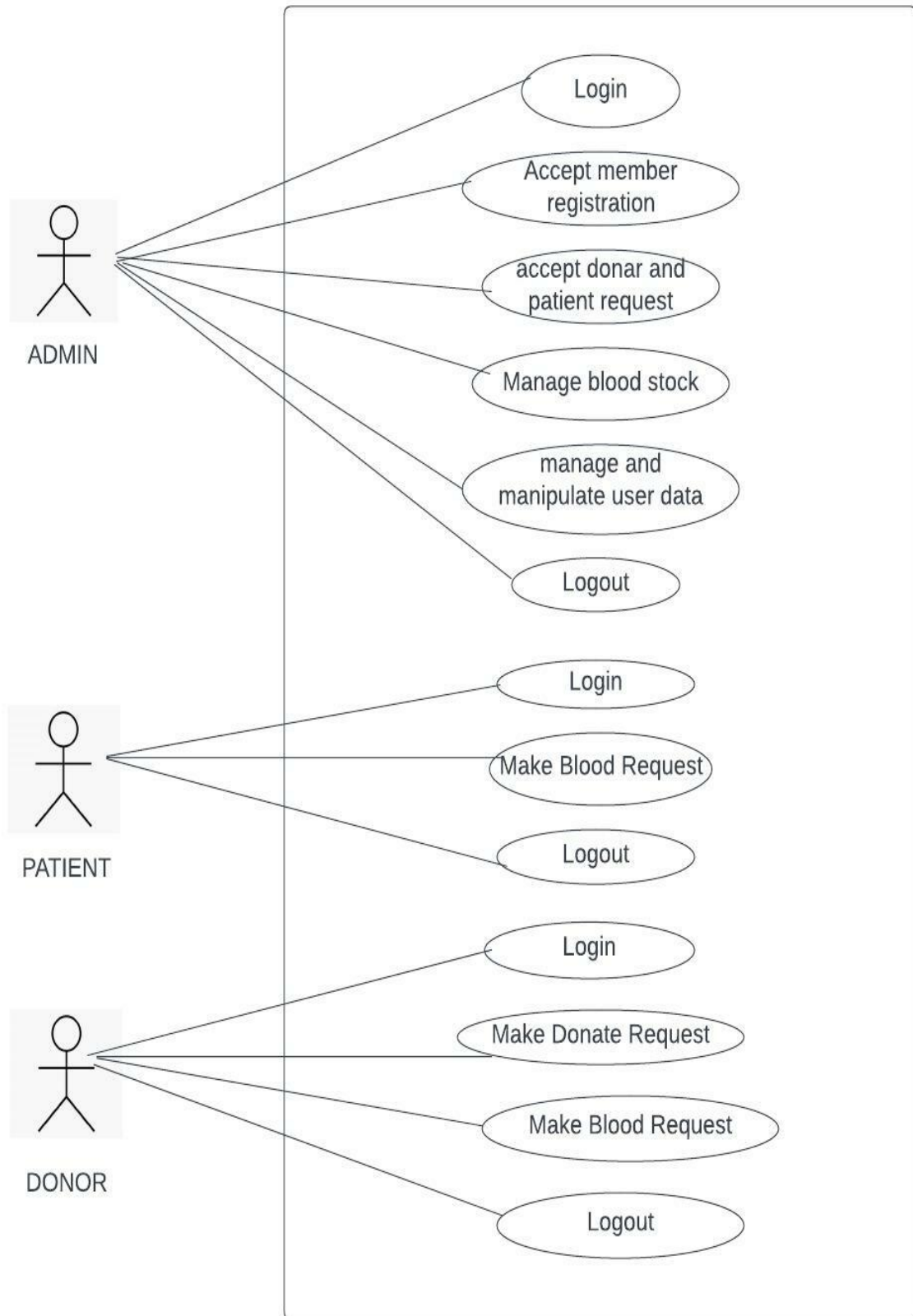
### *4. Request Blood:*

User(Patient) should be able to request for blood at emergency situation, user need to define blood group, location, required date, contact. The order requested will be sent to blood bank and then to the Inventory to check the availability. If available, the requested blood will be sent to the requested donor(Hospital).

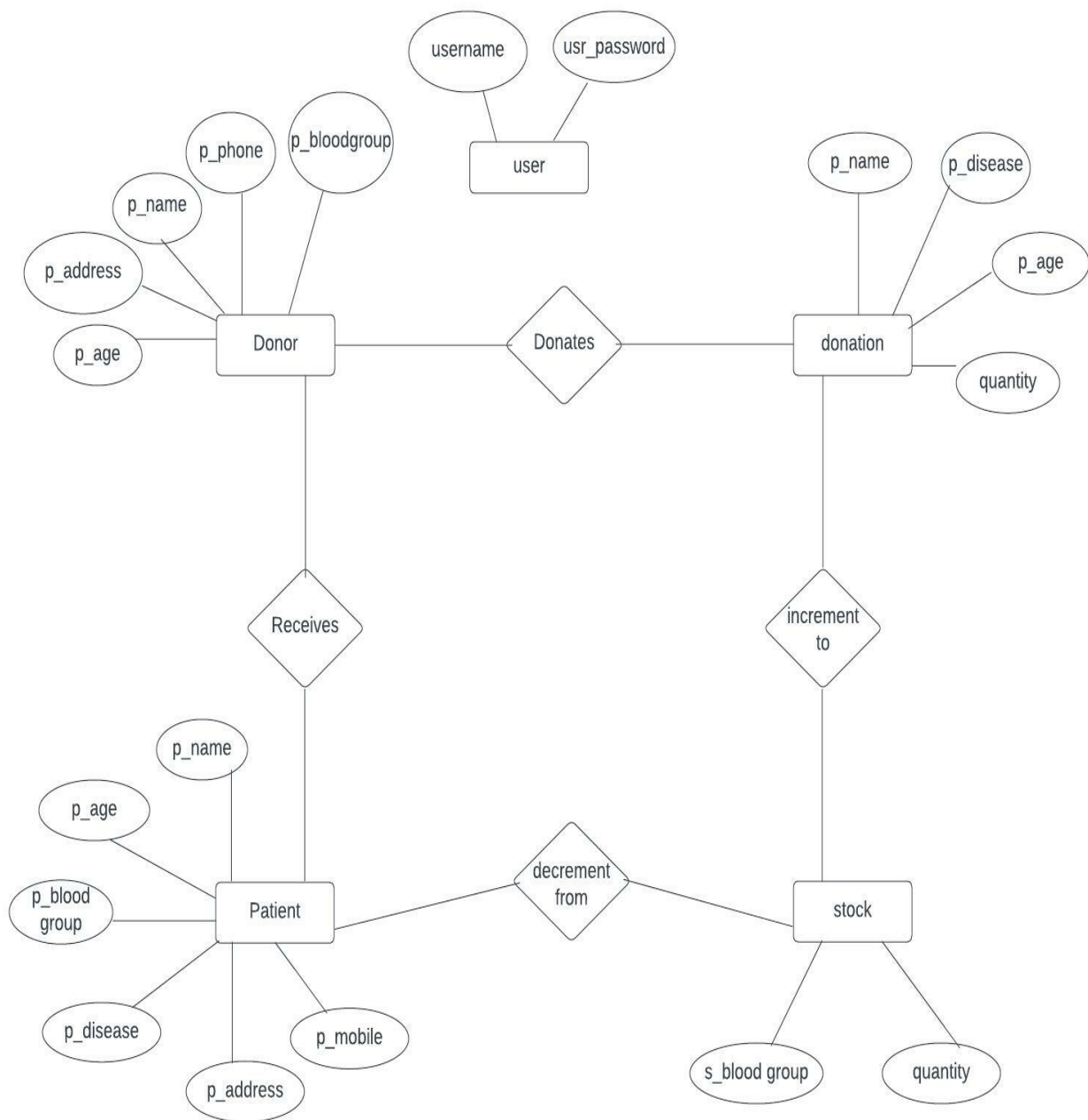
### *5. View Request:*

The Blood Bank should be able to view received request and then respond to them and can search requests by selecting two options select blood group and provision.

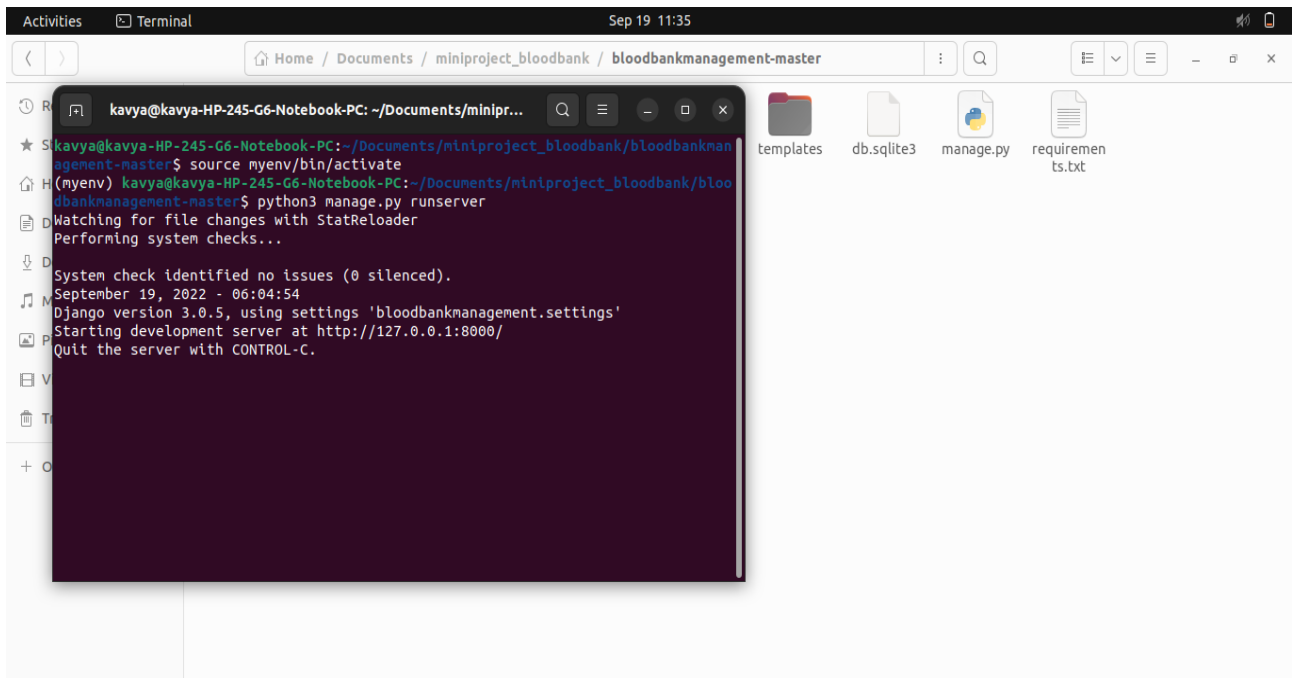
## 4.Usecase Diagrams:



## 5.ER DIAGRAM:



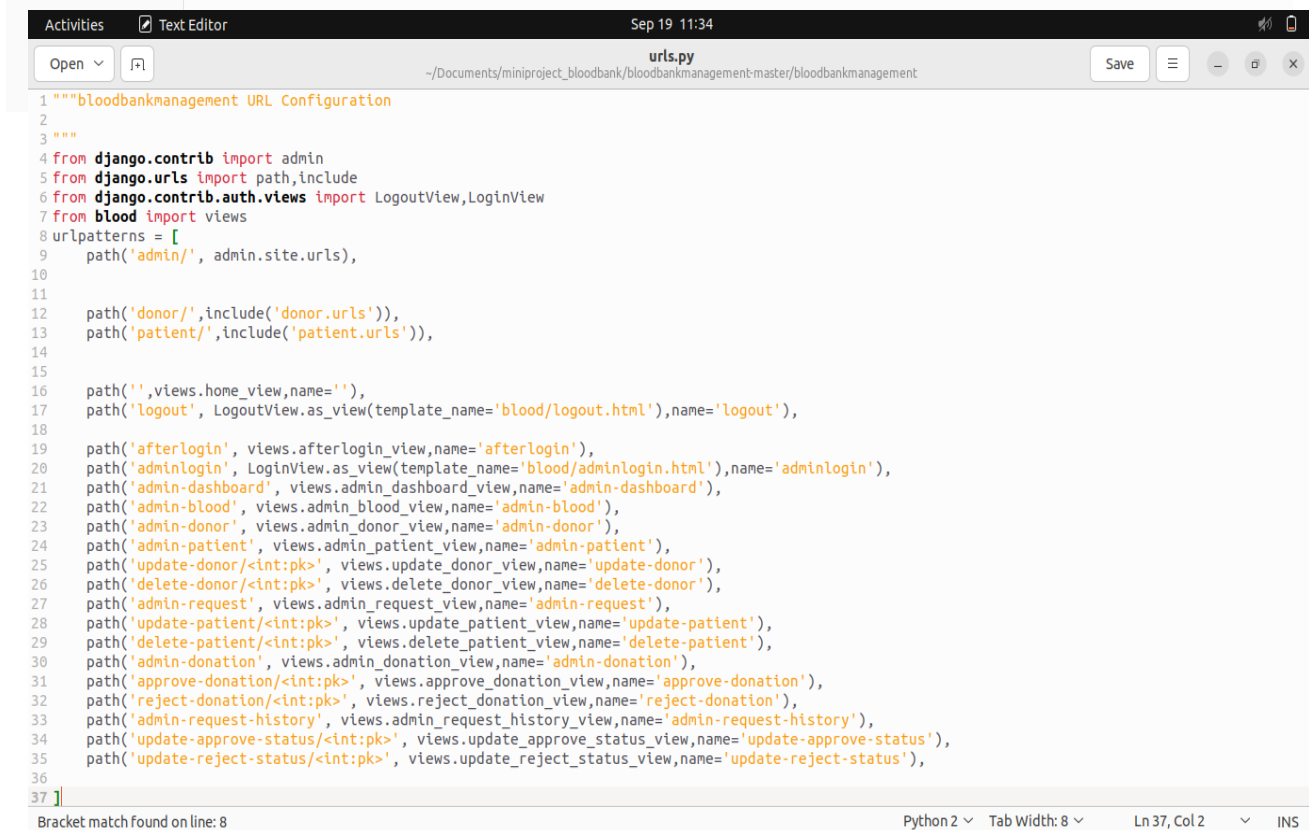
## 6.CODE SNIPPETS



A terminal window titled "Terminal" with a timestamp of "Sep 19 11:35". The window shows the following commands and output:

```
kavya@kavya-HP-245-G6-Notebook-PC: ~/Documents/minipr...
kavya@kavya-HP-245-G6-Notebook-PC:~/Documents/miniproject_bloodbank/bloodbankmanagement-master$ source myenv/bin/activate
(myenv) kavya@kavya-HP-245-G6-Notebook-PC:~/Documents/miniproject_bloodbank/bloodbankmanagement-master$ python3 manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
September 19, 2022 - 06:04:54
Django version 3.0.5, using settings 'bloodbankmanagement.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```



A text editor window titled "Text Editor" with a timestamp of "Sep 19 11:34". The window shows the contents of the file "urls.py" located at "~/Documents/miniproject\_bloodbank/bloodbankmanagement-master/bloodbankmanagement". The code is as follows:

```
1 """bloodbankmanagement URL Configuration
2
3 """
4 from django.contrib import admin
5 from django.urls import path,include
6 from django.contrib.auth.views import LogoutView,LoginView
7 from blood import views
8 urlpatterns = [
9     path('admin/', admin.site.urls),
10
11     path('donor/',include('donor.urls')),
12     path('patient/',include('patient.urls')),
13
14
15     path('',views.home_view,name=''),
16     path('logout', LogoutView.as_view(template_name='blood/logout.html'),name='logout'),
17
18
19     path('afterlogin', views.afterlogin_view,name='afterlogin'),
20     path('adminlogin', LoginView.as_view(template_name='blood/adminlogin.html'),name='adminlogin'),
21     path('admin-dashboard', views.admin_dashboard_view,name='admin-dashboard'),
22     path('admin-blood', views.admin_blood_view,name='admin-blood'),
23     path('admin-donor', views.admin_donor_view,name='admin-donor'),
24     path('admin-patient', views.admin_patient_view,name='admin-patient'),
25     path('update-donor/<int:pk>', views.update_donor_view,name='update-donor'),
26     path('delete-donor/<int:pk>', views.delete_donor_view,name='delete-donor'),
27     path('admin-request', views.admin_request_view,name='admin-request'),
28     path('update-patient/<int:pk>', views.update_patient_view,name='update-patient'),
29     path('delete-patient/<int:pk>', views.delete_patient_view,name='delete-patient'),
30     path('admin-donation', views.admin_donation_view,name='admin-donation'),
31     path('approve-donation/<int:pk>', views.approve_donation_view,name='approve-donation'),
32     path('reject-donation/<int:pk>', views.reject_donation_view,name='reject-donation'),
33     path('admin-request-history', views.admin_request_history_view,name='admin-request-history'),
34     path('update-approve-status/<int:pk>', views.update_approve_status_view,name='update-approve-status'),
35     path('update-reject-status/<int:pk>', views.update_reject_status_view,name='update-reject-status'),
36
37 ]
```

At the bottom of the window, a status bar shows "Bracket match found on line: 8", "Python 2", "Tab Width: 8", "Ln 37, Col 2", and "INS".

```
Activities Text Editor Sep 19 11:33
views.py
~/Documents/miniproject_bloodbank/bloodbankmanagement-master/patient

1 from django.shortcuts import render,redirect,reverse
2 from . import forms,models
3 from django.db.models import Sum,Q
4 from django.contrib.auth.models import Group
5 from django.http import HttpResponseRedirect
6 from django.contrib.auth.decorators import login_required,user_passes_test
7 from django.conf import settings
8 from datetime import date, timedelta
9 from django.core.mail import send_mail
10 from django.contrib.auth.models import User
11 from blood import forms as bforms
12 from blood import models as bmodels
13
14
15 def patient_signup_view(request):
16     userForm=forms.PatientUserForm()
17     patientForm=forms.PatientForm()
18     mydict={'userForm':userForm,'patientForm':patientForm}
19     if request.method=='POST':
20         userForm=forms.PatientUserForm(request.POST)
21         patientForm=forms.PatientForm(request.POST,request.FILES)
22         if userForm.is_valid() and patientForm.is_valid():
23             user=userForm.save()
24             user.set_password(user.password)
25             user.save()
26             patient=patientForm.save(commit=False)
27             patient.user=user
28             patient.bloodgroup=patientForm.cleaned_data['bloodgroup']
29             patient.save()
30             my_patient_group = Group.objects.get_or_create(name='PATIENT')
31             my_patient_group[0].user_set.add(user)
32             return HttpResponseRedirect('patientlogin')
33     return render(request,'patient/patientsignup.html',context=mydict)
34
35 def patient_dashboard_view(request):
36     patient= models.Patient.objects.get(user_id=request.user.id)
37     dict={
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Activities Text Editor Sep 19 11:32

Open views.py Save

~/Documents/miniproject\_bloodbank/bloodbankmanagement-master/blood

```
1 from django.shortcuts import render,redirect,reverse
2 from . import forms,models
3 from django.db.models import Sum,Q
4 from django.contrib.auth.models import Group
5 from django.http import HttpResponseRedirect
6 from django.contrib.auth.decorators import login_required,user_passes_test
7 from django.conf import settings
8 from datetime import date, timedelta
9 from django.core.mail import send_mail
10 from django.contrib.auth.models import User
11 from donor import models as dmodels
12 from patient import models as pmodels
13 from donor import forms as dforms
14 from patient import forms as pforms
15
16 def home_view(request):
17     x=models.Stock.objects.all()
18     print(x)
19     if len(x)==0:
20         blood1=models.Stock()
21         blood1.bloodgroup="A+"
22         blood1.save()
23
24         blood2=models.Stock()
25         blood2.bloodgroup="A-"
26         blood2.save()
27
28         blood3=models.Stock()
29         blood3.bloodgroup="B+"
30         blood3.save()
31
32         blood4=models.Stock()
33         blood4.bloodgroup="B-"
34         blood4.save()
35
36         blood5=models.Stock()
37         blood5.bloodgroup="AB+"

```

Python 2 Tab Width: 8 Ln 9, Col 39 INS

Activities Text Editor Sep 19 11:31

Open manage.py Save

~/Documents/miniproject\_bloodbank/bloodbankmanagement-master

```
1 #!/usr/bin/env python
2 """Django's command-line utility for administrative tasks."""
3 import os
4 import sys
5
6
7 def main():
8     os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'bloodbankmanagement.settings')
9     try:
10         from django.core.management import execute_from_command_line
11     except ImportError as exc:
12         raise ImportError(
13             "Couldn't import Django. Are you sure it's installed and "
14             "available on your PYTHONPATH environment variable? Did you "
15             "forget to activate a virtual environment?"
16         ) from exc
17     execute_from_command_line(sys.argv)
18
19
20 if __name__ == '__main__':
21     main()

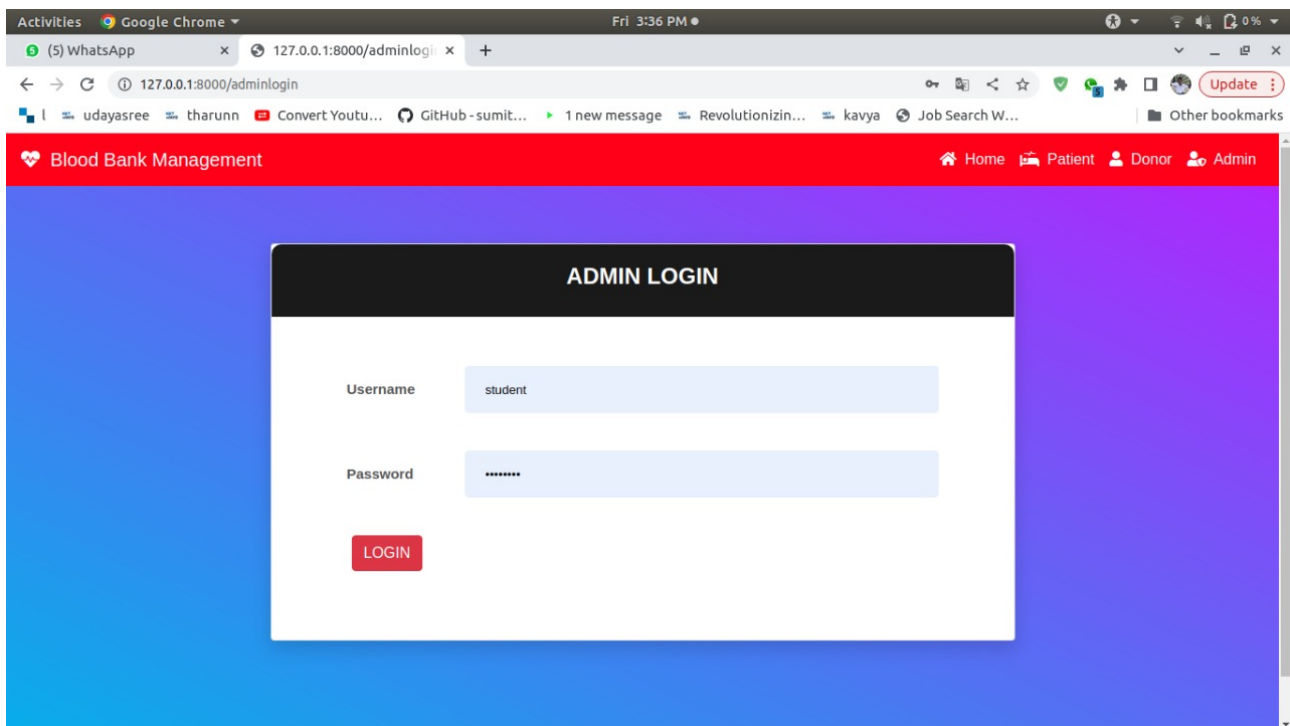
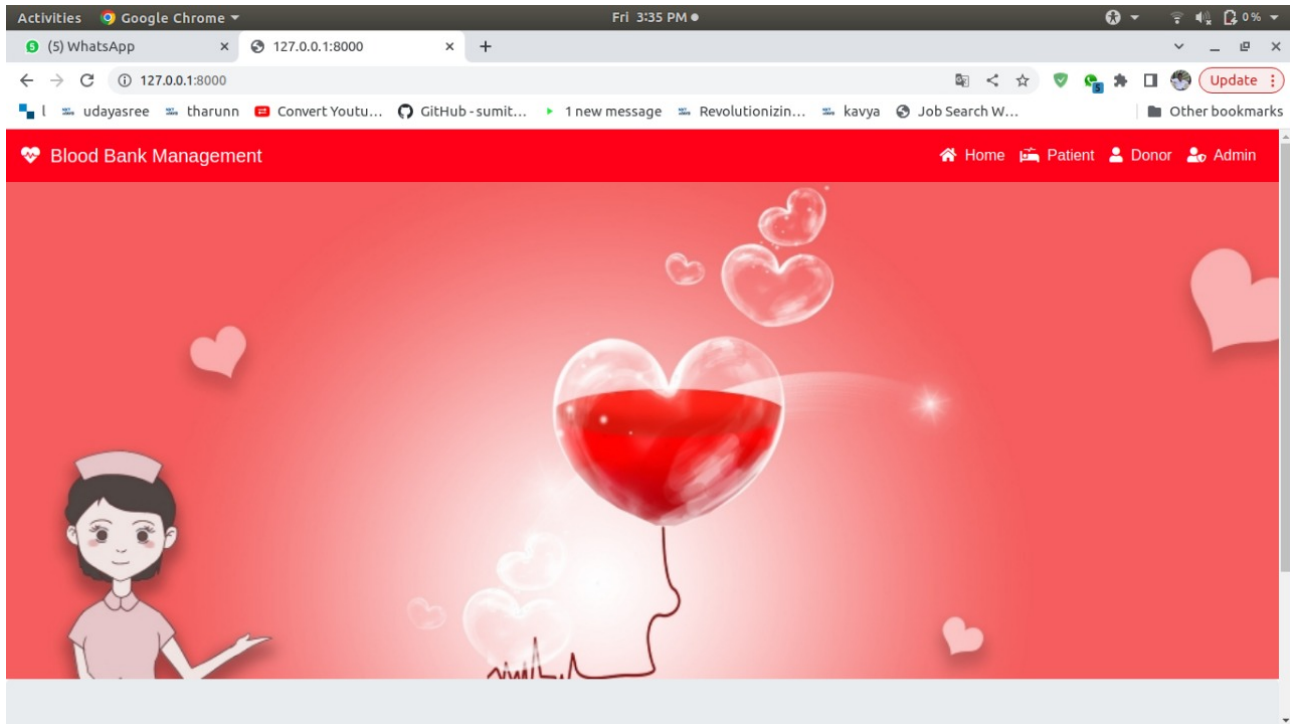
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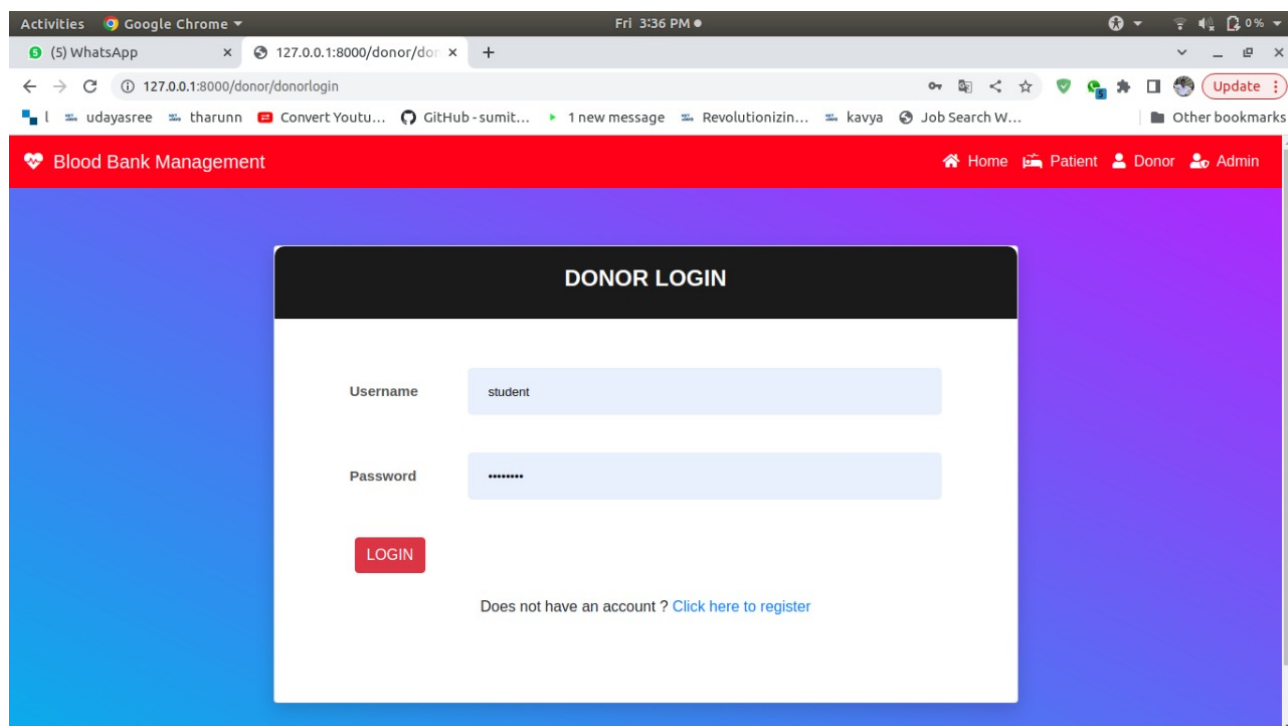
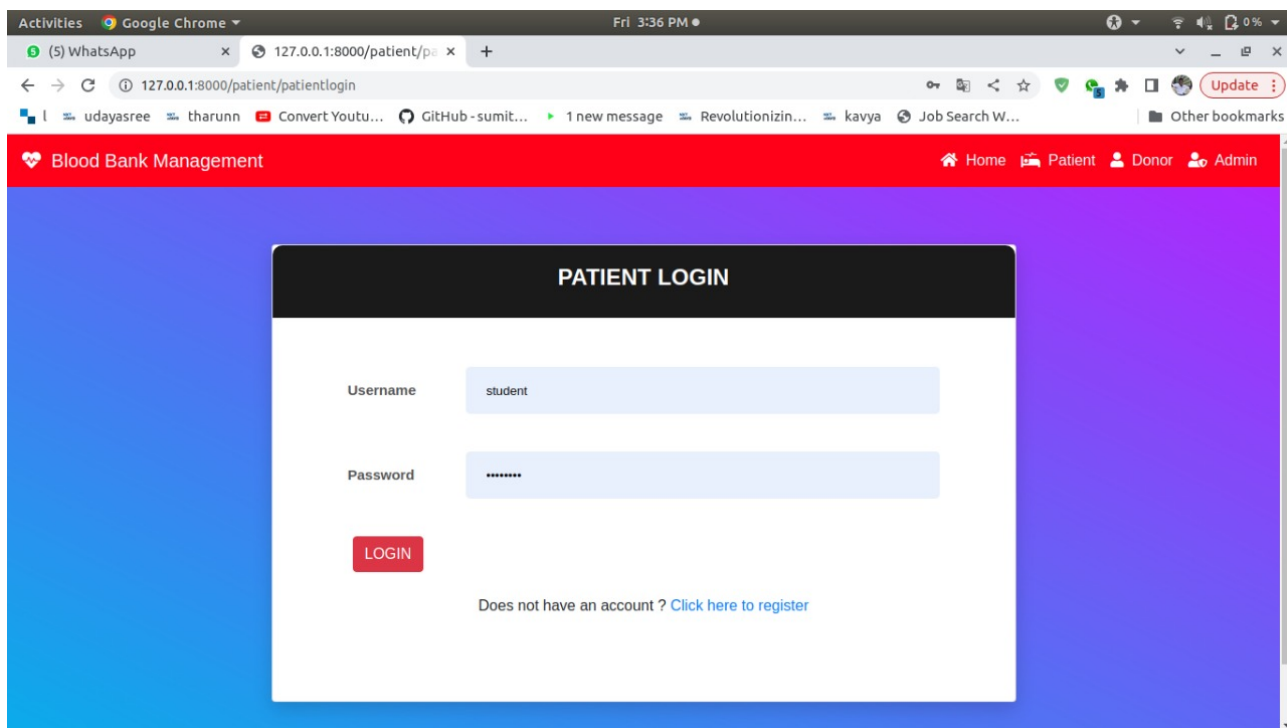
Bracket match found on line: 21

Python 2 Tab Width: 8 Ln 21, Col 11 INS



## 7.PROJECT IMAGES:





Activities Google Chrome Fri 3:36 PM

(5) WhatsApp x ADMIN x +

127.0.0.1:8000/admin-dashboard

udayasree tharunn Convert Youtu... GitHub - sumit... 1 new message Revolutionizin... kavya Job Search W... Other bookmarks

**Blood Bank Management System** Logout

Home Donor Patient Donations Blood Requests Request History Blood Stock

A+ 6	B+ 25	O+ 14	AB+ 10
A- 2	B- 0	O- 10	AB- 0
Total Donors 2	Total Requests 5	Approved Requests 4	Total Blood Unit (in ml) 67

Activities Google Chrome Fri 3:37 PM

(5) WhatsApp x DONOR x +

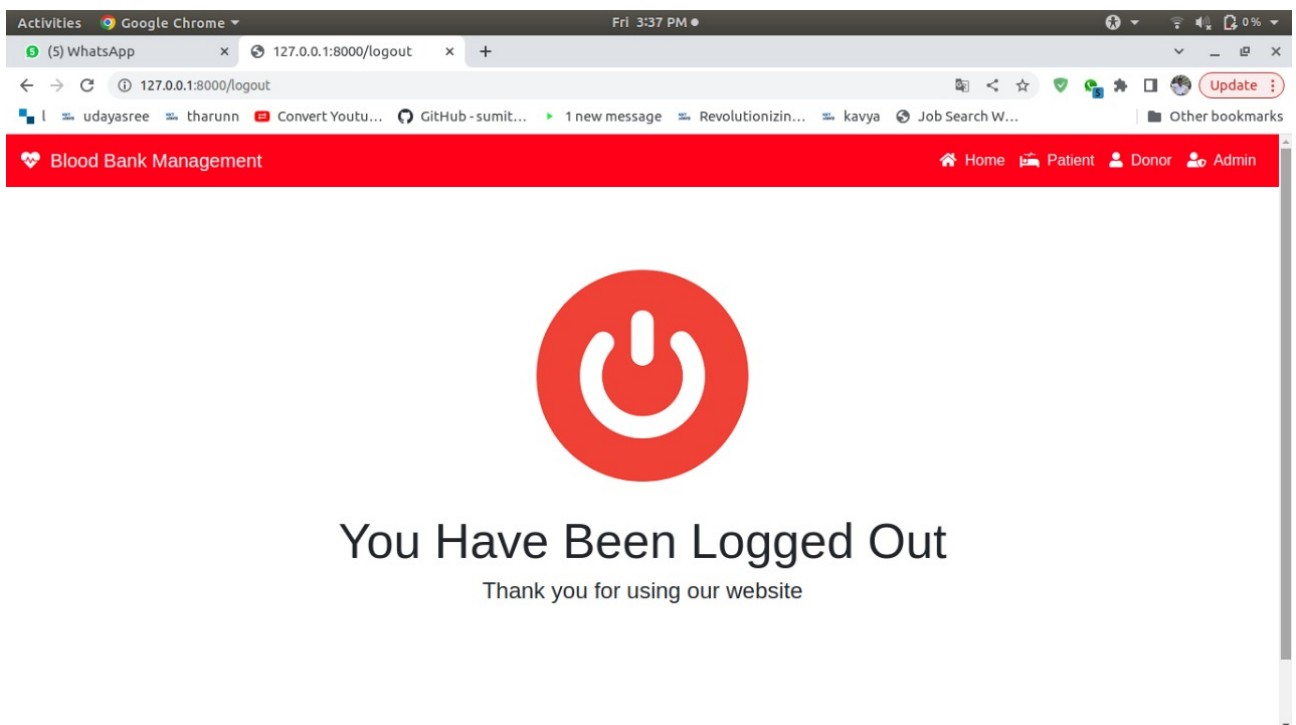
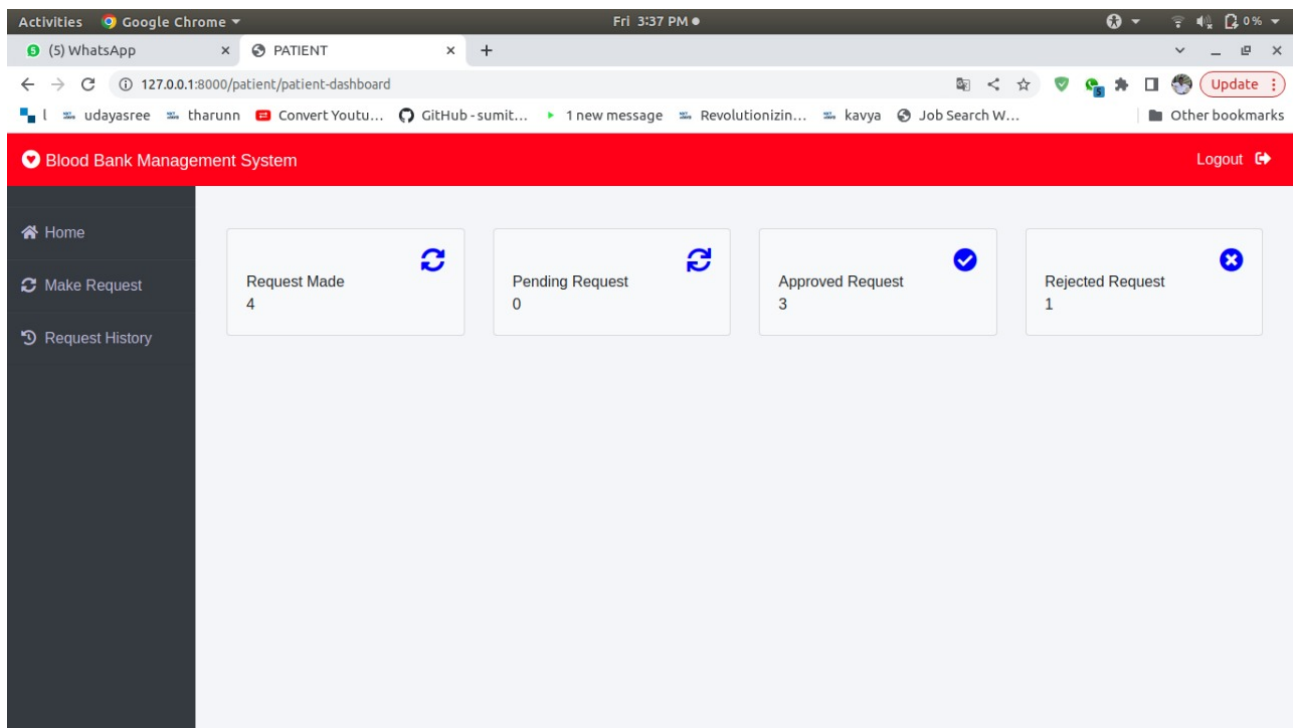
127.0.0.1:8000/donor/donor-dashboard

udayasree tharunn Convert Youtu... GitHub - sumit... 1 new message Revolutionizin... kavya Job Search W... Other bookmarks

**Blood Bank Management System** Logout

Home Donate Blood Donation History Blood Request Request History

Request Made 0	Pending Request 0	Approved Request 0	Rejected Request 0
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## **8.CONCLUSION:**

This proposed Blood Bank Management System gives a reliable platform for both donors and acceptors. The BMMS is a web-based application that helps to minimize human errors and problems pertaining to data redundancy. It is a fast-paced and efficient way to communicate without any security threats as the data entered will be verified and frequently updated thereby increasing the probability of saving one's life.

## **9.REFERENCES:**

[www.internshala.com](http://www.internshala.com)

[www.github.com](http://www.github.com)

[www.youtube.com](http://www.youtube.com)

[www.fullstack.com](http://www.fullstack.com)