# BLOOD DONATION APP USING REACT NATIVE

submitted by

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in partial fulfillment of the requirements for the award of the Degree of
**Master of Computer Applications** from Bharathiar University, Coimbatore.

under the internal supervision of
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**Sulur, Coimbatore – 641 402.**
**December 2020 - March 2021.**

**RATHNAVEL SUBRAMANIAM COLLEGE OF ARTS AND SCIENCE**

(AUTONOMOUS)
**Sulur, Coimbatore-641 402**

**Department of Computer Applications (MCA)**

**Project work & Viva voce**

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This is to certify that this a *bona fide* record of work done by Mr / Ms .....……..

Register No. …..... during the academic year 2020 - 2021 and submitted for the End Semester Project viva voce held on …….

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**INTERNAL EXAMINER** **EXTERNAL EXAMINER**

# *Certificates*

# Certificate

This is to certify that the dissertation entitled **BLOOD BANK APP USING REACT NATIVE**, submitted to the School of Computer Studies, Rathnavel Subramaniam College of Arts and Science in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a record of original project work done by **JYOTHIS MANOJ** during the period JULY2021-JAN 2022 of their study on MCA in the Rathnavel Subramaniam College of Arts and Science, under my internal supervision and the dissertation has not formed the basis for the award of any Degree/Diploma/Associate ship/Fellowship or other similar title to any candidate of any University.

Internal Supervisor

# *Declaration*

# Declaration

We, **JYOTHIS MANOJ** hereby declare that the dissertation, entitled **BLOOD BANK APP USING REACT NATIVE**, submitted to the School of Computer Studies, Rathnavel Subramaniam College of Arts and Science, in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications is a record of original project work done by we during the period December 2020–March 2021 under the internal supervision of **Dr.G.Puroshtaman , Associate Professor**, Department of Computer Applications and it has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or other similar title to any candidate of any University.

Signature of the Candidate

# *Acknowledgements*

# Acknowledgements

We express our sincere thanks to our Managing trustee **Dr.K.Senthil Ganesh MBA (USA)., MS (UK)., Ph.D.,** for providing us with the adequate of faculty and laboratory resources for completing my project successfully.

We take this as a fine opportunity to express our sincere thanks to **Dr. T. Sivakumar M.Sc., M. Phil., Ph.D., Principal,** Rathnavel Subramaniam College of Arts And Science (Autonomous) for giving me the opportunity to undertake this project.

We express our sincere thanks to **Dr.D.Francis Xavier Christopher., M.Sc(CS)., M.Phil.,Ph.D., Director (Administration), Department of Computer Science** for the help and advice throughout the project.

We express our sincere thanks to **Dr. S. Yamini., M. Sc(CC)., M. Phil., Ph.D., Director (Academic), Department of Computer Science** for her valuable guidance and prompt correspondence throughout the curriculum to complete the project.

We express our sincere thanks to **Mrs. C.Grace Padma., MCA., M.Phil., MBA., Head of the Department** for her support and advice throughout the project.

We express our gratitude to **Dr.G.Puroshtaman,M.Sc.,M.Phil.,B.Ed.,Ph.D.,** for his valuable guidance, support, encouragement and motivation rendered by his throughout this project.

Finally, We express our sincere thanks to all other staff members and my dear friends, and all dear and near for helping me to complete this project.

**- JYOTHIS MANOJ**

# BLOOD BANK APP USING REACT NATIVE

# *Abstract*

# Abstract

In the blood bank it provide the available of blood and also can donate it .the main categories available are

*add donation

*view donation

*manage donation

so while using this app you can view the availability of blood groups in your local area and also donee can get contact of the particular donor as their wish, so you can save your time

There are three categories ,first one is add donation it navigate to the detail screen ,so we can easly add detail for donar to get display in the list screen. Next one is view donation it is usually for guest and donee to view the blood needs and the last category manage donation is for admin

And we have a admin which can manage the list of the donars ,so that if any data overflow occurred admin can easly remove the unnecessary data ,so we can prevent from the data overflow and also can edit the details

**Frontend Tools/ Technology: React Native**

**Backend Tools/ Technology: Node js**

**DataBase Technology: Mongodb**

**Git repository link:**

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# *Module Description*

# Module Description

My project name is Blood bank . this project aim is to reduce the valuable time of the donee by waiting for needs of blood. I was in the member of blood care .so I know about the issues in needs of blood so have been trying to correct it using my app

In the blood bank there are three categories

*Add donation

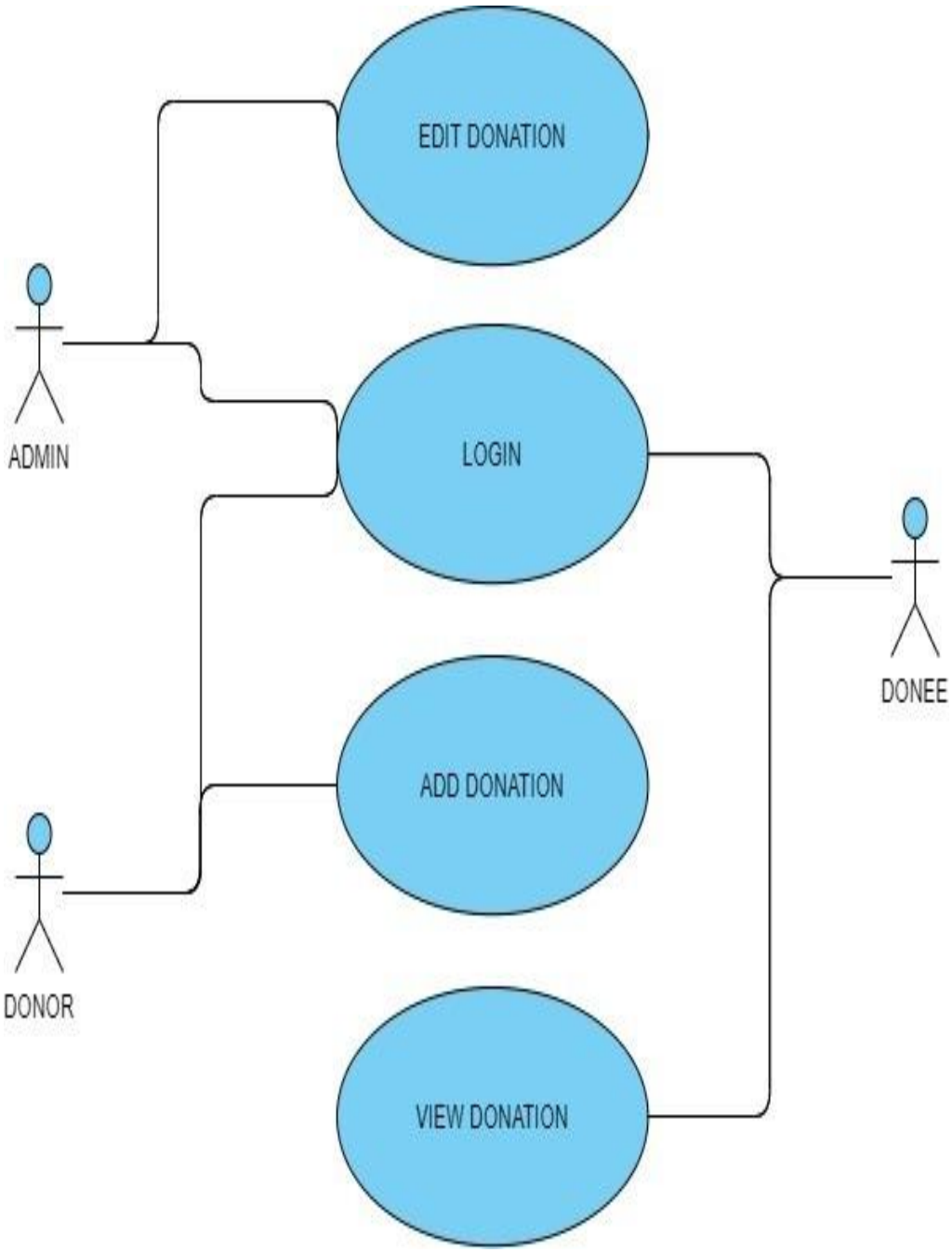
*View donation

*Manage donation

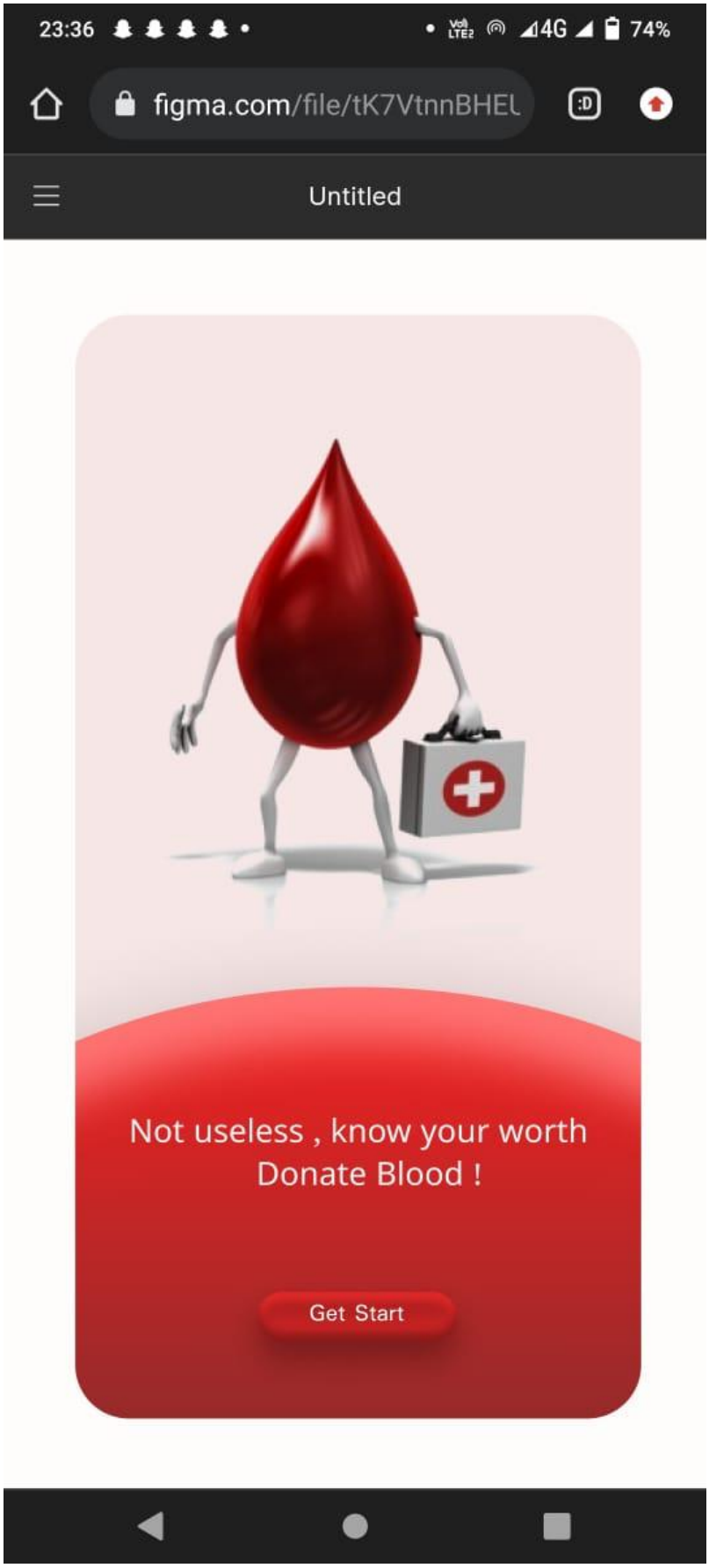
There are three categories ,first one is add donation it navigate to the detail screen ,so we can easly add detail for donar to get display in the list screen. Next one is view donation it is usually for guest and donee to view the blood needs and the last category manage donation is for admin

And we have a admin which can manage the list of the donars ,so that if any data overflow occurred admin can easly remove the unnecessary data ,so we can prevent from the data overflow and also can edit the details

# *Use case diagram*


EDIT DONATION
ADMIN
LOGIN
DONEE
ADD DONATION
DONOR
VIEW DONATION

*Figma Design*


23:36
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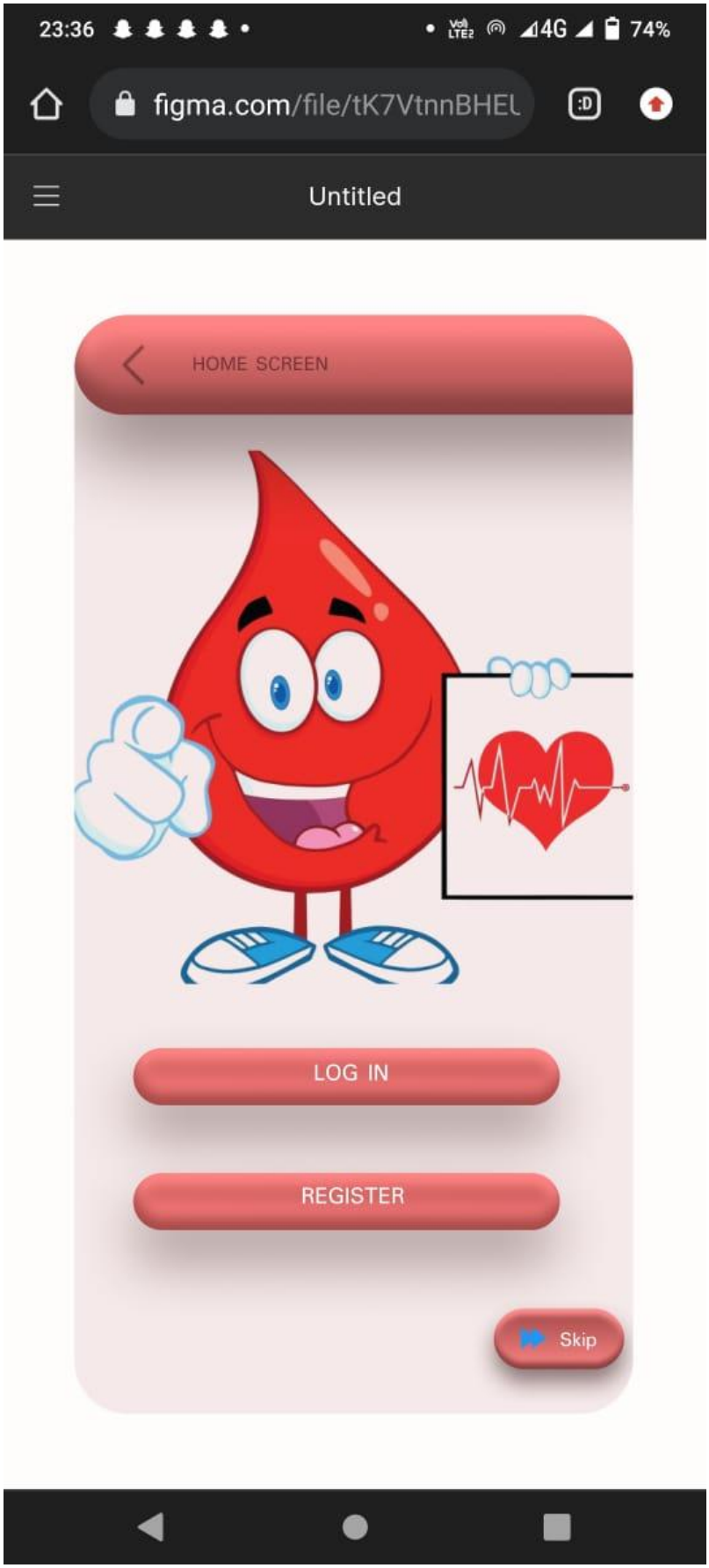
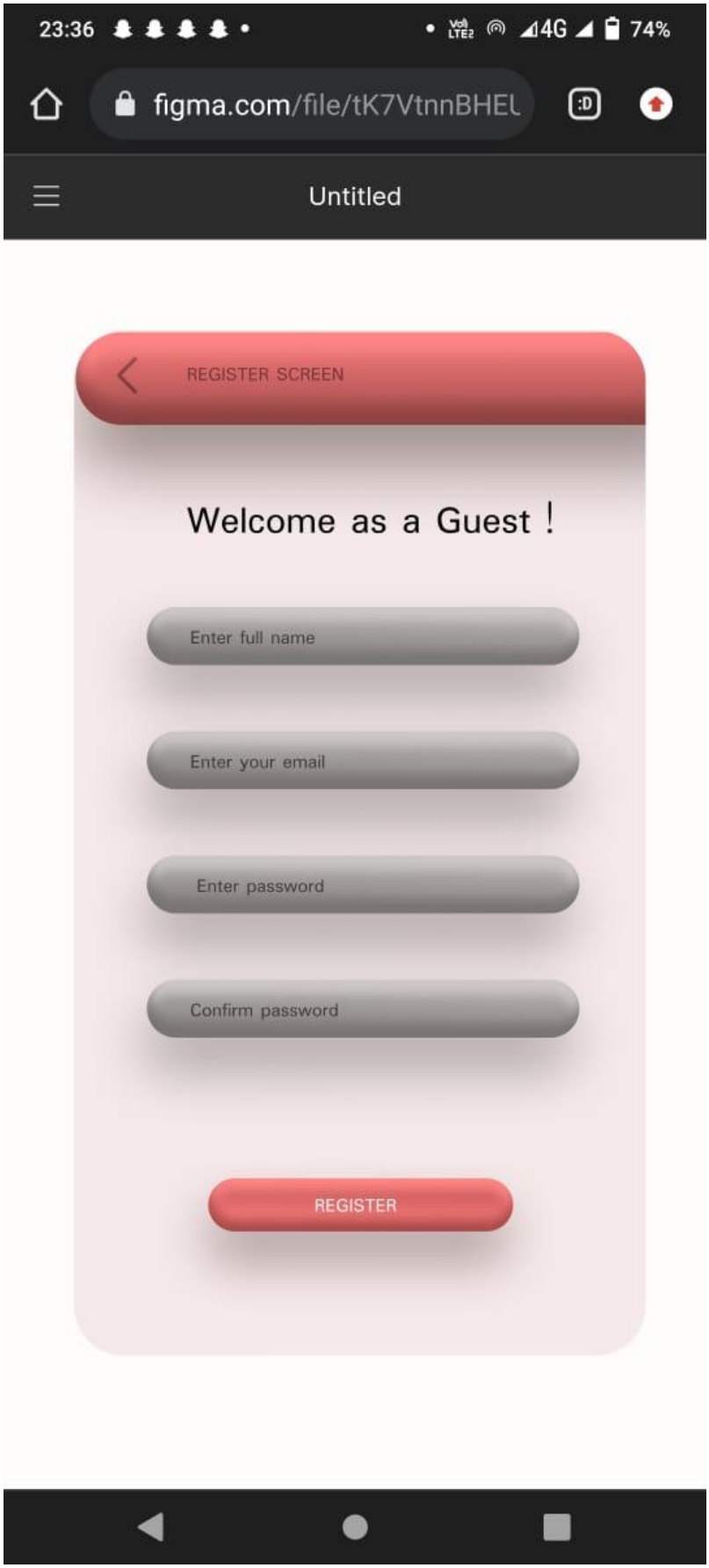
figma.com/file/tK7VtnnBHEL
Untitled
Not useless , know your worth
Donate Blood !
Get Start


23:36
74%
figma.com/file/tK7VtnnBHEL
Untitled
HOME SCREEN
LOG IN
REGISTER
Skip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figma.com/file/tK7VtnnBHEL
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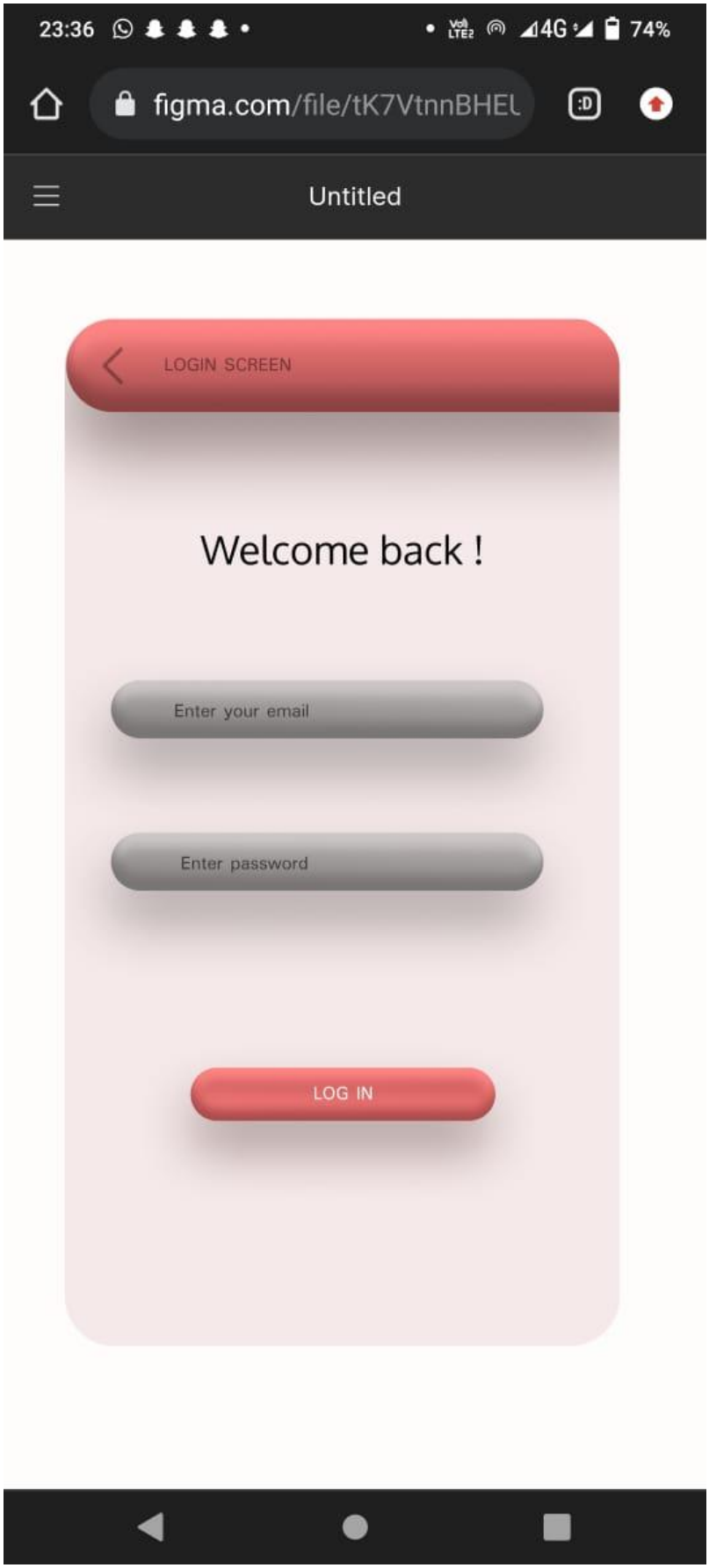
REGISTER SCREEN
Welcome as a Guest !
Enter full name
Enter your email
Enter password
Confirm password
REGISTER


23:36
74%
figma.com/file/tK7VtnnBHEL
Untitled
LOGIN SCREEN
Welcome back !
Enter your email
Enter password
LOG IN

23:36
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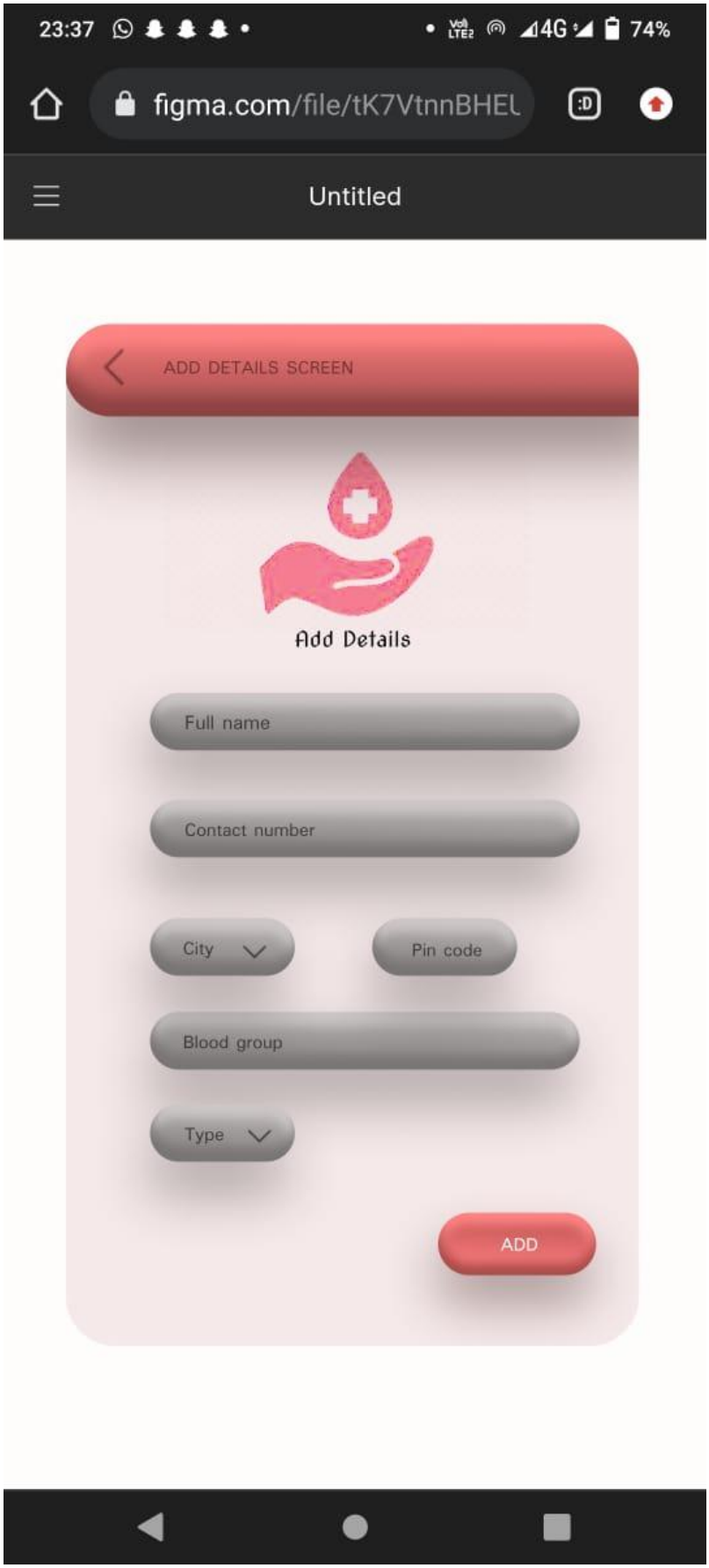
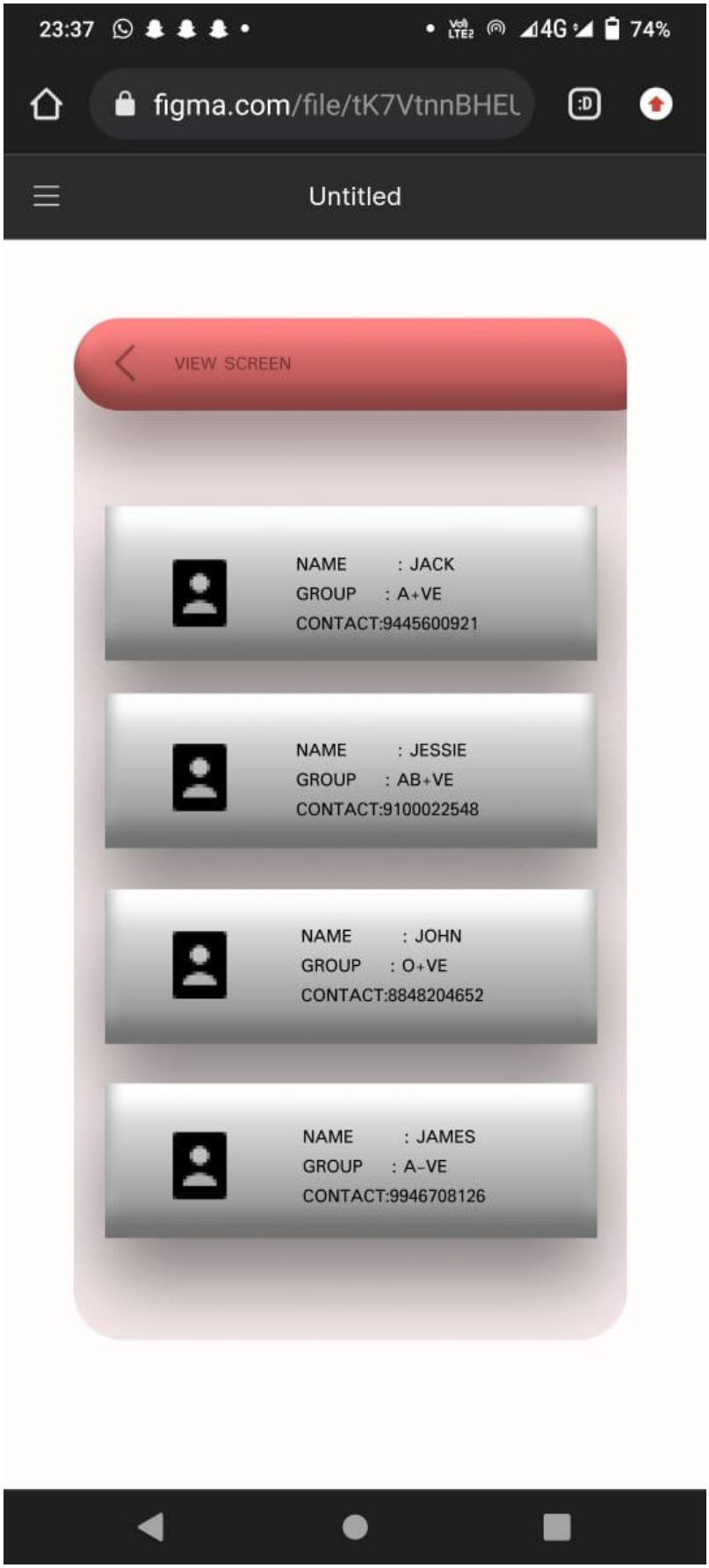
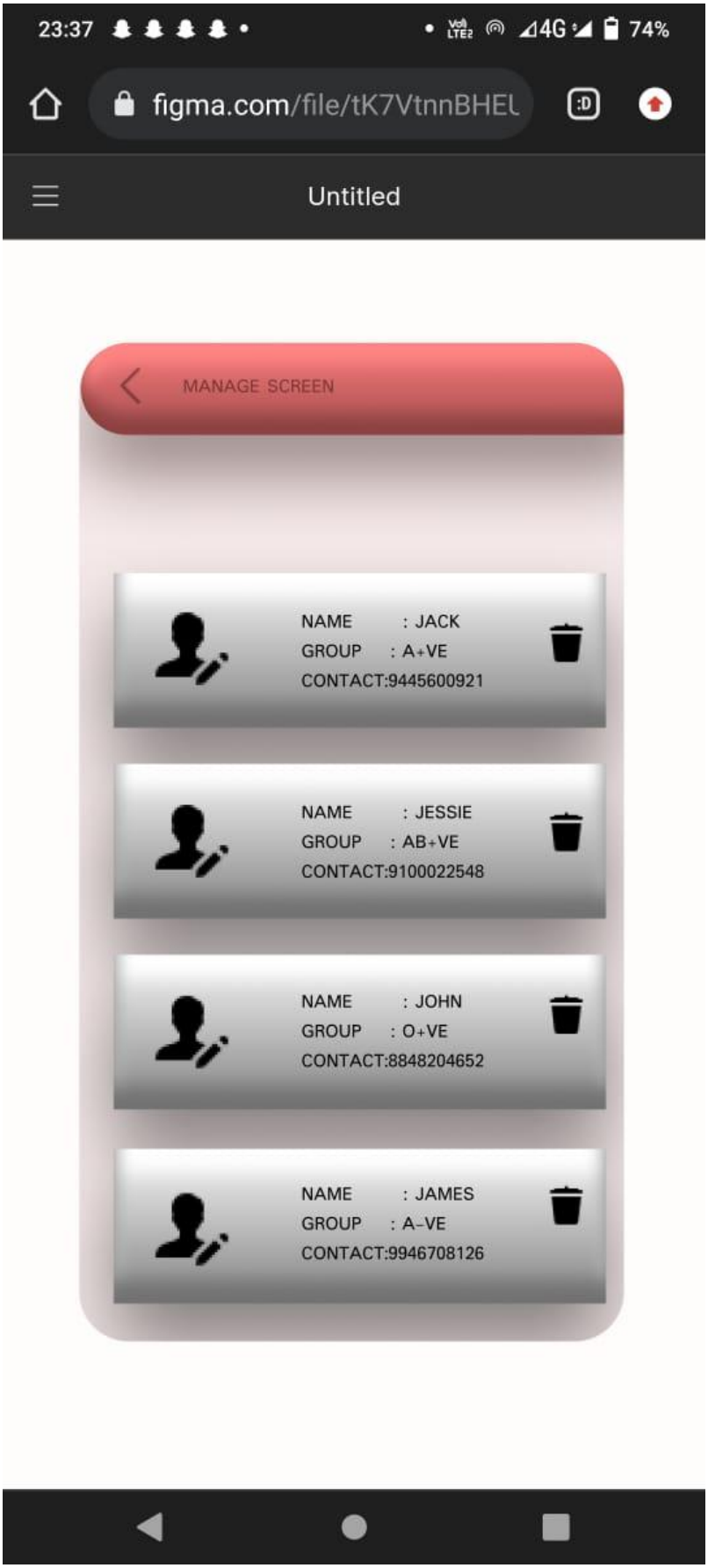
figma.com/file/tK7VtnnBHEL
Untitled
WELCOME SCREEN
GIVE BLOOD
ADD DONATION
VIEW DONATION
MANAGE DONATION


23:37
74%
figma.com/file/tK7VtnnBHEL
Untitled
ADD DETAILS SCREEN
Add Details
Full name
Contact number
City
Pin code
Blood group
Type
ADD


23:37
74%
figma.com/file/tK7VtnnBHEL
Untitled
VIEW SCREEN
NAME : JACK
GROUP : A+VE
CONTACT:9445600921
NAME : JESSIE
GROUP : AB+VE
CONTACT:9100022548
NAME : JOHN
GROUP : O+VE
CONTACT:8848204652
NAME : JAMES
GROUP : A-VE
CONTACT:9946708126


23:37
74%
figma.com/file/tK7VtnnBHEL
Untitled
MANAGE SCREEN
NAME : JACK
GROUP : A+VE
CONTACT:9445600921
NAME : JESSIE
GROUP : AB+VE
CONTACT:9100022548
NAME : JOHN
GROUP : O+VE
CONTACT:8848204652
NAME : JAMES
GROUP : A-VE
CONTACT:9946708126

# *Schemas for the App*

USER SCHEMA:

```
{
        "fullname": String,
        "email": String,
       "password": String,
       "confirmpassword": String,

}
```

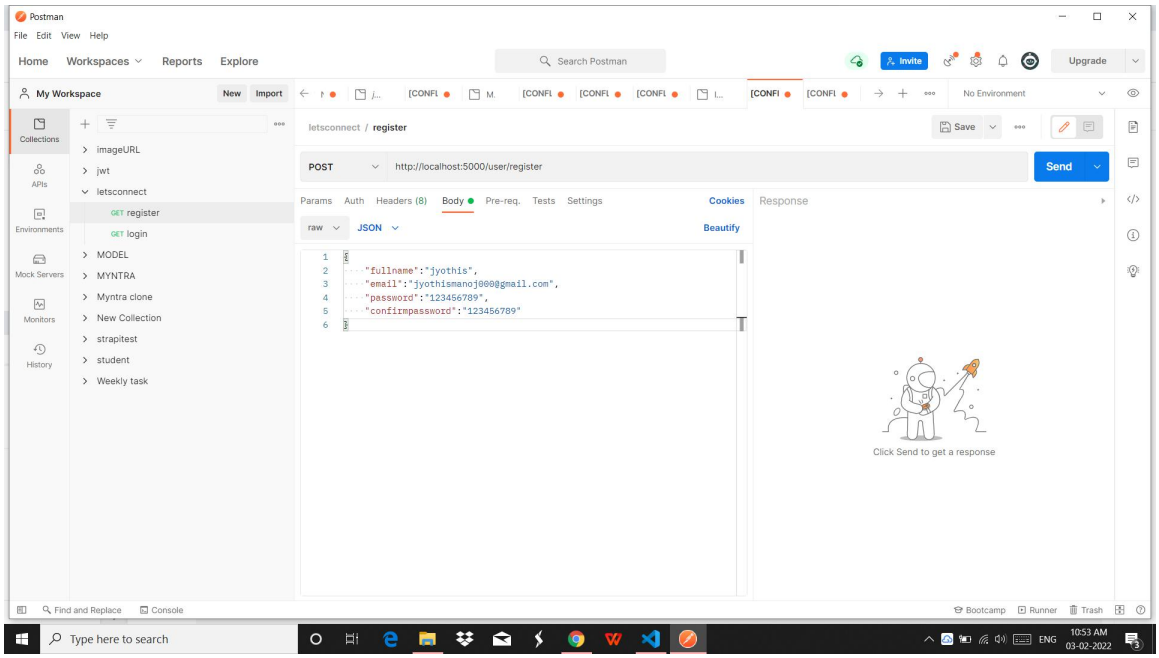
ADD DETAILS SCHEMA:

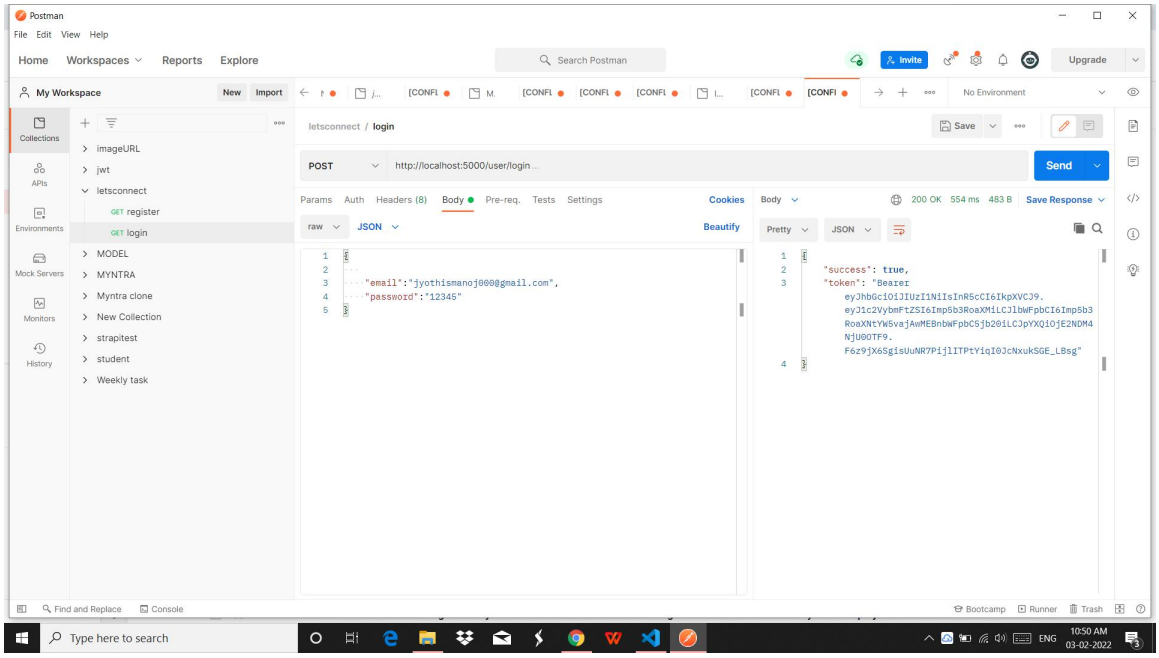
```
{

      "fullname": String,
     "contactnumber": Number
      "city": String,
     "pincode": Number
     "bloodgroup": String,
      "type": String,

}
```

# *APIs for the App*


Postman
File Edit View Help
Home Workspaces Reports Explore
Search Postman
Invite
Upgrade
My Workspace
New Import
No Environment
Collections
APIs
Environments
Mock Servers
Monitors
History
imageURL
jwt
letsconnect
GET register
GET login
MODEL
MYNTRA
Myntra clone
New Collection
strapitest
student
Weekly task
letsconnect / register
Save
POST
http://localhost:5000/user/register
Send
Params Auth Headers (8) Body Pre-req. Tests Settings
Cookies
Response
raw JSON
Beautify
1 {
2 "fullname":"jyothis",
3 "email":"jyothismanoj000@gmail.com",
4 "password":"123456789",
5 "confirmpassword":"123456789"
6 }
Click Send to get a response
Find and Replace
Console
Bootcamp
Runner
Trash
Type here to search
ENG
10:53 AM
03-02-2022


Postman
File Edit View Help
Home Workspaces Reports Explore
Search Postman
Invite
Upgrade
My Workspace
New Import
No Environment
Collections
APIs
Environments
Mock Servers
Monitors
History
imageURL
jwt
letsconnect
GET register
GET login
MODEL
MYNTRA
Myntra clone
New Collection
strapitest
student
Weekly task
letsconnect / login
Save
POST
http://localhost:5000/user/login ...
Send
Params Auth Headers (8) Body Pre-req. Tests Settings
Cookies
Body
200 OK 554 ms 483 B
Save Response
raw JSON
Beautify
Pretty JSON
1 {
2
3 "email":"jyothismanoj000@gmail.com",
4 "password":"12345"
5 }
1 {
2
3 "success": true,
"token": "Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
eyJ1c2VybmFtZSI6Imp5b3RoaXMiLCJlbWFpbCI6Imp5b3
RoaXNtYW5vajAwMEBnbWFpbC5jb20iLCJpYXQiOjE2NDM4
NjU0OTF9.
F6z9jX6SgisUuNR7PijlITPtYiqI0JcNxukSGE_L8sg"
4 }
Find and Replace
Console
Bootcamp
Runner
Trash
Type here to search
ENG
10:50 AM
03-02-2022

# *Conclusion and future enhancement*

**Future Enhancement:**

In near future with Blood donation version 2.0 donee method will be available widely and supports multiple medium to get interact to user by donating area more widely. Then in version 3.0 we will provide close range blood needs through near by organization.

**Conclusion:**

The “BLOOD BANK” has been developed to save valuable time to get needs of blood of each and every patient . The system is highly scalable and user friendly. Almost all the system objectives have been met. The system has been tested under all criteria. The application executes successfully by fulfilling the objectives of the project. Further extensions to this system can be made required with minor modifications.