**ANDROID APP DEVELOPMENT REPORT**

**Team Number:8**

**Android App Name:Donor connect**

**Team Members:CS21B010-Banoth Jyoshna**

**CS21B014-Boppana Eesa Sathvika**

**CS21B021-Gurrala Harshitha**

**CS21B034-Mudavath Shilpa**

**CS21B045-Santhosi R M**

**GitHub / Google Drive link** (Where source files are kept) :

[https://github.com/cs21b021/DonorConnect](https://github.com/Santhosi03/appdevhttps://github.com/cs21b021/DonorConnect)

**Q: How has your Android App idea evolved till its current stage?**

The blood donation app is a platform that connects blood donors with individuals in need of blood, making the process of blood donation more convenient and accessible. This idea is evolved from few of our past experiences. Few of us encountered some situations when timely availability of blood wasn’t there in hospitals which led us to this idea. We want to solve this problem through our blood donation app. Our app has many features in which we are going to record the bio data of blood donor along with his blood group which makes easier for the receiver to reach the blood donor.

**Q: Which technologies and libraries are used?**

The technologies used in our app are Android studio IDE, Java language, and Firebase for database storage.  
  
The libraries that are used in our app are:

androidx.appcompat.app.AppCompatActivity

android.os.Bundle

androidx.fragment.app.Fragment

android.view.LayoutInflater

android.view.View

android.view.ViewGroup

android.content.Intent

android.widget.\*

com.google.firebase.database.\*

androidx.recyclerview.widget.\*

androidx.appcompat.widget.SearchView

com.google.firebase.firestore.FirebaseFirestore

**Q: What are the features? Why are they important? Please explain in detail?**

We have used bottom navigation.It contains three fragments .

1. Home page
2. Main page
3. Help

Main page:In main page we have two buttons ,they are:

Donor login: The two activities of blood donor are:

1. Signup:=If anyone wishes to donate blood through our app, first they have to signup and they have to create an account
2. Login:=After singup the donor has to login in blood donor using user name , email and password.

Find Donor: The two activities of find donor are:

1. Search
2. Contact information.

Search :If a person wants to find donor of a specific blood group they have to click on find donor it redirects them to search page. In search bar the receiver has to enter the blood group. After sorting ,it shows the required results to the blood receiver.

Help : Help page gives a description of how to use the app.

**Q: What are the design decisions of your application? Is there any change in features during developing them? Justifying your changes by mentioning technical challenges encountered.**

**Design decisions:**

Our design decisions home page where the bottom navigation activity redirects to blood donation(main page) which include donors and find donors . Donor signup and login , recipients search activity and contact details for the recipient about donor are the design features of the main page.

**Changes from the technical challenges:**

Yes, we have encounterde some challenges while adding data bases hence we have used firebase instead of SQL.

Intially we had thought to use SQL lite as a data base but we didn’t find SQL lite extension in our android studio setup.Instead of SQL lite extension we have installed SQL Android and MYSQL extension,but we are unable to run our code ,then we thought of installing any other sql related extension but we couldn’t find any other sql extension in android studio setup.So we decided to install “Firebase” extension as data base.Firebase is able to collect all the data of our code and it showed good results of our code.

**Q:Please Mention the contribution each member of your team**

CS21B010-Banoth Jyoshna

Report, debugging, settings, Bottom Navigation Activity

CS21B014-Boppana Eesa Sathvika

Report, debugging, firebase linkage, signup

CS21B021-Gurrala Harshitha

Report, debugging, signup, login, search activity, PPT , firebase linkage

CS21B034-Mudavath Shilpa

Report, debugging, settings, login

CS21B045-Santhosi R M

Report, debugging, Bottom Navigation Activity, search activity, PPT , firebase linkage