

BLOOD BANK MANAGEMENT SYSTEM

BY

Mithun Ahmed Pranta

ID: 163-15-1117

Abdullah

ID: 163-15-1120

Md. Shajjad Hossain Sohag

ID: 171-15-1187

This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering.

Supervised By

Dr. S.M. Aminul Haque

Associate professor

Department of CSE

Daffodil International University

Co-Supervised By

Mohammad Jahangir Alam

Lecturer

Department of CSE

Daffodil International University



DAFFODIL INTERNATIONAL UNIVERSITY

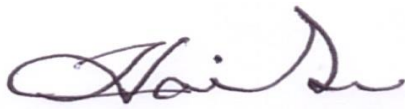
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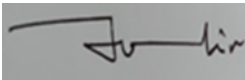
This Project/internship titled “**Blood Bank Management System**”, submitted by **Mithun Ahmed Pranta**, ID No: 163-15-1117, **Abdullah**, ID No: 163-15-1120 and **Md. Shajjad Hossain Sohag**, ID No: 171-15-1187 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 18.09.2021.

BOARD OF EXAMINERS



Sheak Rashed Haider Noori
Associate Professor
 Department of Computer Science and Engineering
 Daffodil International University

Internal Examiner



Ohidujjaman
Senior Lecturer
 Department of Computer Science and Engineering
 Faculty of Science & Information Technology
 Daffodil International University

Internal Examiner



Dr. Dewan Md. Farid
Associate Professor

External Examiner

Department of Computer Science & Engineering
United International University, Bangladesh

DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Dr. S. M. Aminul Haque, Associate Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for the award of any degree or a diploma.

Supervised by:



Dr. S. M. Aminul Haque
Associate Professor
Department of CSE
Daffodil International University

Co-Supervised by:

Mohammad Jahangir Alam
Lecturer
Department of CSE
Daffodil International University

Submitted by:



Mithun Ahmed Pranta
ID: 163-15-1117
Department of CSE
Daffodil International University
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Abdullah.

Abdullah

ID: 163-15-1120

Department of CSE

Daffodil International University

Shajjad hossain sohag

Md. Shajjad Hossain Sohag

ID: 171-15-1187

Department of CSE

Daffodil International University

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ABSTRACT

Blood is an essential component of all living organisms. In the event of an emergency, it proves to be a lifesaving component. The blood bank management system's job is to collect blood from a variety of donors. It is based on a mobile application that searches for blood supply from registered donors using a mobile search engine. These contain information like Donor Name, Blood Group, City living, Contact details, etc. It's not a lack of donors that's the issue; it's finding a willing donor at the proper time. We want to create a network of people who can assist one another in an emergency. The administrator has access to all donor-related information from the blood bank administration system using this application. In an emergency, the app can help you locate blood banks, determine if a specific or similar blood group fits, and navigate to the appropriate location.

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CHAPTER-1

Introduction

1.1 Introduction:

The blood is the specialized biological fluid that transporting essential nutrients and oxygen to the body's cells. The blood business is carried on by a bank that exists in the process of the collection and puts aside and cares for the red body fluid or the ancestry element that exists to get through an ancestry gift for future use fashionable ancestry transfusions. In order to assure compatibility with a blood transfusion, patients' blood types must also be determined. In rare situations, the patient may be unable to acquire the required amount of blood at the proper time due to a complete lack of interconnection in the form of a connected database among blood banks, resulting in a lack of knowledge of all blood donors' most recent records. Cell phones and apps have become an inseparable part of everyone's life. With the mobile computing revolution, numerous new capabilities were brought to the industry, and mobile phones became smaller, quicker, and better as the decade progressed. In the event of an emergency, this Mobile application was built to swiftly locate blood in nearby locations. This Android app provides easy access to blood in real-time and at the proper location.

1.2 Motivation:

The major goal of this program is to save people's lives by donating blood. The goal of the Blood Bank is to help people. We have all of the data you'll ever require. Many people are here to support you and are eager to donate blood at any moment. We've taken care of everything; the rest is up to you. Look up the blood group you require. If you happen not quite donate the red body fluid when wanted, you can help the United States of America by enrolling hereditary Bank System. You may help the dignitary impoverished as a self-important appendage of Blood Bank and a responsible member of the human species. With the use of a username and password, a person who needs to donate blood can register on our Blood Bank Management System App. The persons who need the blood donor, can search and find blood donors by using our App. After probing, the upper class of the giver of the gift will spread and users can take the brief analysis of their contact analysis, so they can 'ideas'.

1.3 Objectives:

We hope that by using this technique, we will be able to bridge the gap between volunteer contributors and people who are in need.

We'll add a cross-matching report to this app, and we'll be able to share our request post across all platforms.

Because few red body fluid types exist exceptional, the bureaucracy can fast settle the necessary giver of the gift accompanying the necessary class of human blood by utilizing the search tool fashionable the Android app.

1.4 Expected outcome:

The suggested android application framework will exceed any current android-based blood bank application in terms of implementation and performance.

To make android technology more user-friendly for patients and volunteer donors in the context of blood donation and transfusion.

To save lives by providing quick access to blood-related information at any time and from any location.

1.4 Report Layout:

The following chapters will be covered in this document.

Chapter 1: Introduction

The reasons aim and the engaged consequence of the project exists the talk over with another in this place section of the book or the group of items. The report's layout is followed in the later sections.

Chapter 2: Literature Review

The problem domain, solutions, evaluation of current solutions, and finally recommendation are all discussed in detail in this chapter.

Chapter 3: Background

This division is bestowed on the traditional state of affairs in one's life of our endeavor. We in addition to discuss accompanying work, the method contrasting, the extent or the range of something of the question, and the project's question.

Chapter 4: Proposed System

In this chapter, we discussed our application system.

Chapter 5: Methodologies

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The importance of employing methodology, many methodologies that can be employed, and the preferred methodology and its application will all be explored in this section.

Chapter 6: Requirement Specification

We have covered everything about requirements in this chapter, including the business process, the requirement collecting, the project's use of the case model, and their descriptions.

Chapter 7: Design Specifications

This chapter covers the project prototype, front-end design, back-end design, interface design, and functional requirement.

Chapter 8: Implementation

This chapter covers the database development, front-end designs, interactivity, and project lab results.

Chapter 9: The conclusion

We've spoken about the conclusion in this part.

CHAPTER 2

Literature Review

On a single platform, the blood banks the administration system with a direct call routing techniques connect eager blood donors with people in the need of blood. The goal of this project is to assist persons who are looking for blood donors. The project's primary tenet is direct communication between funders and recipients. The approach of direct call routing is utilized to connect between the donor and the recipient. The server routes the needed person's call to the suitable donor's phone.

"An Android application for voluntary blood donors." If stocks fall below the required level in an emergency, persons who donate blood at health centers willingly will be the only source of blood supply. In that case, the healthcare center should make contact with

the nearest available donor as soon as possible to set up the service. A smartphone app is being developed to make finding a blood donation volunteer in your neighborhood easier. It provides continuous access to healthcare centers and individual donors if blood is required in an emergency and cannot be obtained from blood banks. With the help of the instructional organization, the blood bank management system provides a single stand or a stage for volunteer blood donors. The purpose of this initiative is to complete every blood request on time via SMS or a promising website, with educational institutions aiding the student blood force in gathering all of the data from volunteer blood donors and sending it along according to the message request. Technopedia's "Blood Donor Information and Management System Optimization" The best approach is to create a website that includes an Android app to help people find blood donors rapidly. The 'GIS' is used in the Android application to track donations who are close to the location.

CHAPTER 3

Background

3.1 Introduction:

The "Blood Bank Management System" is a fantastic donor management system that may be completed in a short amount of time.

3.2 Related Work:

There are many mobile applications available on the internet.

They are:

- ✓ Charpoka Blood Bank
- ✓ BD Blood Bank
- ✓ BD Blood Donor

3.3 Comparative Studies:

Our system is initially distinct from other similar apps. This software only displays individual donors in specified locations and connects them directly through an integrated network. Other apps offer an open database where users can check up all of the contributors' information, which can be dangerous at times, but we made this concealed. Other applications display a whole list of blood donors; however, this app delivers information on a specified number of blood donors.

3.4 Scope of Problem:

- ✓ Collecting and sifting information on real donors could be a challenge.
- ✓ This system is difficult to take offline.
- ✓ Typically, these apps collect data manually, thus this will be a challenge to overcome.

3.5 Challenges:

- ✓ To improve the usability of the app.
- ✓ Errors are being fixed until the problem is resolved.
- ✓ Creating a safe environment for everyone.
- ✓ Creating a user interface that is both attractive and functional.
- ✓ Creating a data-passing channel that is dynamic.

CHAPTER 4

Proposed System

4.1 Introduction:

It is necessary to download the application. You must first download the app and register as a donor before you may donate blood. Some basic information is required for registration, such as name, address, number, blood group, password, and so on. If the individual has previously registered, he must log in using his number and password. By

providing a brief explanation, the person can indeed demand blood. A user in need of blood will be given options such as the donor search, selecting a nearby place, blood group, and so on.

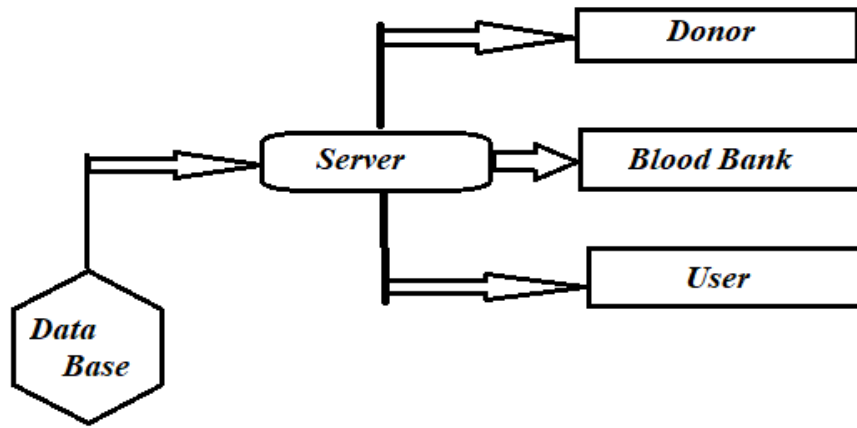


Figure-1: Block diagram of Main Modules

4.2 Admin Module:

This Admin Module is the most important module as it verifies. Admin is the person in charge of keeping track of donor and acceptor data. The administrator has the ability to reset the password and maintain donor information. Maintain acceptor information, update donor information, and so on.

4.3 Donor Module:

They must complete a registration form for each new donor. After registering, the donor is given a user number and password for unique identification. Each donor must provide basic information such as their name, address, number, blood group, and so on.

4.4 Acceptor Module:

This module is where the person who requires blood for their emergency requirement. The Acceptor will request registration in our application for their required blood group.

4.5 System Database:

It keeps track of all important donor, acceptor, and patient information. There will be a feature that allows users to update their information, which will aid in tracking and maintaining data.

CHAPTER 5

Methodologies

5.1 Android Studio:

The official open to all races the growth environment (IDE) for the android app incident happen Android Studio, that is established IntelliJ IDEA. Android Studio is an Android programming environment. It runs on Windows, Mac OS X, and Linux, and it's taken the position of Google's main IDE for creating native Android apps. Android Studio includes a dynamic Gradle-based the software tool, constitution templates to assist you in creating accepted app features, a rich design redactor with drag-and-drop the idea editing, and included the support for Google App Engine, making it simple to integrate Google Cloud Contact and App Generator, among other things.

The newly updated system architecture viewpoint in Android Studio allows you to examine the interface you're working on as well as its supporting components.

For generating layouts, integrating design elements, and creating visual or text resources for your app, Android Studio includes a range of user interface tools.

The Android build system is a collection of tools for developing, testing, and packaging Android apps. The build system can be started from the command line or from the Android Studio menu as an integrated tool.

5.2 JSON:

For the JavaScript Object Notation, JSON sets are used. It's a self-contained data interchange format that's one of the best XML alternatives. To manipulate JSON data, Android provides four distinct classes. JSON Array, JSON Object, JSON Stringer, and JSON Tokenizer are classes in question.

The first step is to identify the fields in the JSON data that you're interested in. JSON is the widely used data interchange format. The data is stored in a key-value pair. JSON is less complicated and easier to read than XML.

5.3 JSON-Elements:

A JSON file is made up of many different elements. The components of a JSON file are defined in this table, along with their descriptions –

Table 1: Elements of JSON

S no.	Component & description
1	Array() In a JSON file , square bracket ([]) represents a JSON array.
2	Objects() In a JSON file, curly bracket ({} represents a JSON object.
3	Key A JSON object contains a key which is just a string. Pairs of key/value make up a JSON object.
4	Value Each key has a value which could be string ,integer or double etc.

5.4 PHP:

PHP happens a server-side create writing language that is to say generally used for netting development but concede possibility also exists secondhand for other purposes. It's used to form active Web sites, or pages that update and show information in visible form fashionable reaction to the consumer's actions. A netting attendant accompanying a PHP meat killer module interprets PHP secret language system and produces the following central page of the website: Instead of communicating with an external file to handle information in visible form, PHP commands may be introduced straightforwardly into an HTML source document. PHP is freely available on almost all web servers, as well as as a standalone shell on almost every operating system and platform. There are four main advantages to PHP: accessibility, compatibility, simplicity, and extensive community support. There are no limits on who can use PHP because it is an open-source project. Programmers that want to use PHP can do so by downloading the free scripts.

In PHP, session support refers to a mechanism for preserving data over many requests. This allows you to create more customized applications and make your website more appealing.

PHP is producing to function healthily with the computer network, therefore features such as accessing the GET and POST methods, as well as working with HTML and URLs, are included. As a result, creating a website becomes a lot more concise and straightforward.

Any text editor, such as Notebook++, Emacs, Bluefish, or even Notepad, can be used to code PHP. PHP is much faster than other programming languages since it uses fewer system resources to run. When PHP is used in conjunction with other applications, it maintains its performance without slowing down other processes.

5.5 MySQL:

Mysql is a database management software solution (RDBMS) structured query language that is free and open-source (SQL). Rather than storing all of the data in one single repository, a relational database stores it in discrete tables. MySQL is available on almost every platform, including Linux, UNIX, and Windows. Mysql is most usually associated with web-based applications, however, it can be used in a variety of settings.

Mysql is a simple database to work with. You can develop and interact with MySQL with just a few simple statements.

Mysql is able to be climbed because that can manage large amounts of data, until 50 million rows and outside limits.

Mysql is specifically companionable to PHP, the most common web growth terminology.

Mysql is especially versatile since it can run a wide variety of embedded applications.

CHAPTER 6

Requirements Specification

6.1 Business process modeling:

Business process modeling is the visual representation of a business process. We can observe how the app works when a user tries to donate or request blood through it in this process.

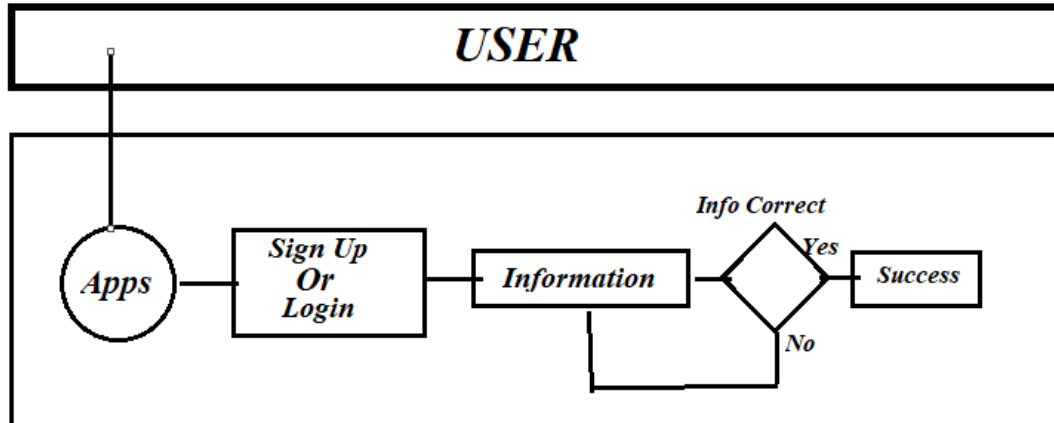


Figure-2: Business Process Model

6.2 General system requirement:

People want to embrace and benefit from computing gadgets, which are now very popular and comparatively powerful. To make their life more efficient, however.

6.3 Use Case Model:

The use case model that follows will quickly depict the relationship between primary players such as users and the system, as well as many aspects of software usage.

CHAPTER 7

Design Specification

7.1 Front-end Design:

The principal user interface that displays a system's output is called front-end design. It has the allure of a piece of software. It is the primary point of contact for users with the system. The application's front-end design is critical.

7.1 Splash Screen:

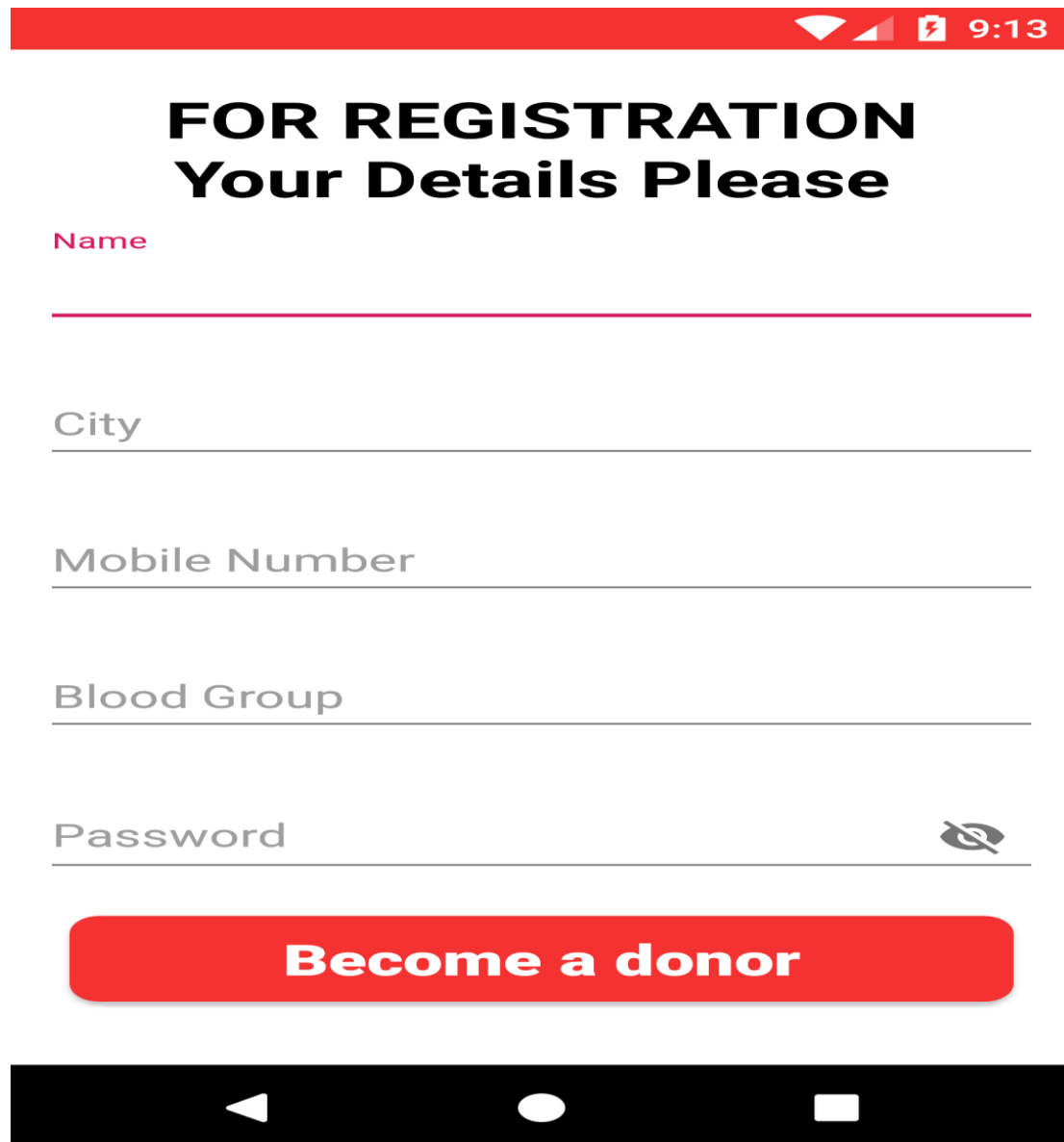
A splash display is a graphical manipulate detail which includes a window containing an image, a logo, and the modern model of software. A splash display can seem even as recreation or software is launching.



Figure-3: Splash Screen

5.2 Registration Page:

A registration page (additionally known as a registration page) allows customers and companies to independently check in and gain get admission to your system. It's far typical to have the specific sign-up pages is being relied on the styles of people and an organization you want to engage.



The image shows a mobile app registration page. At the top is a red status bar with white icons for Wi-Fi, cellular signal, battery, and the time 9:13. Below this is a large black heading "FOR REGISTRATION" followed by "Your Details Please" in a slightly smaller black font. The form consists of five input fields, each with a label in a light gray font above a horizontal line: "Name" (with a pink label), "City", "Mobile Number", "Blood Group", and "Password" (with a gray label and a toggle icon on the right). Below the fields is a prominent red button with rounded corners and the text "Become a donor" in white. At the very bottom is a black navigation bar with three white icons: a back arrow, a circle, and a square.

FOR REGISTRATION
Your Details Please

Name

City

Mobile Number

Blood Group

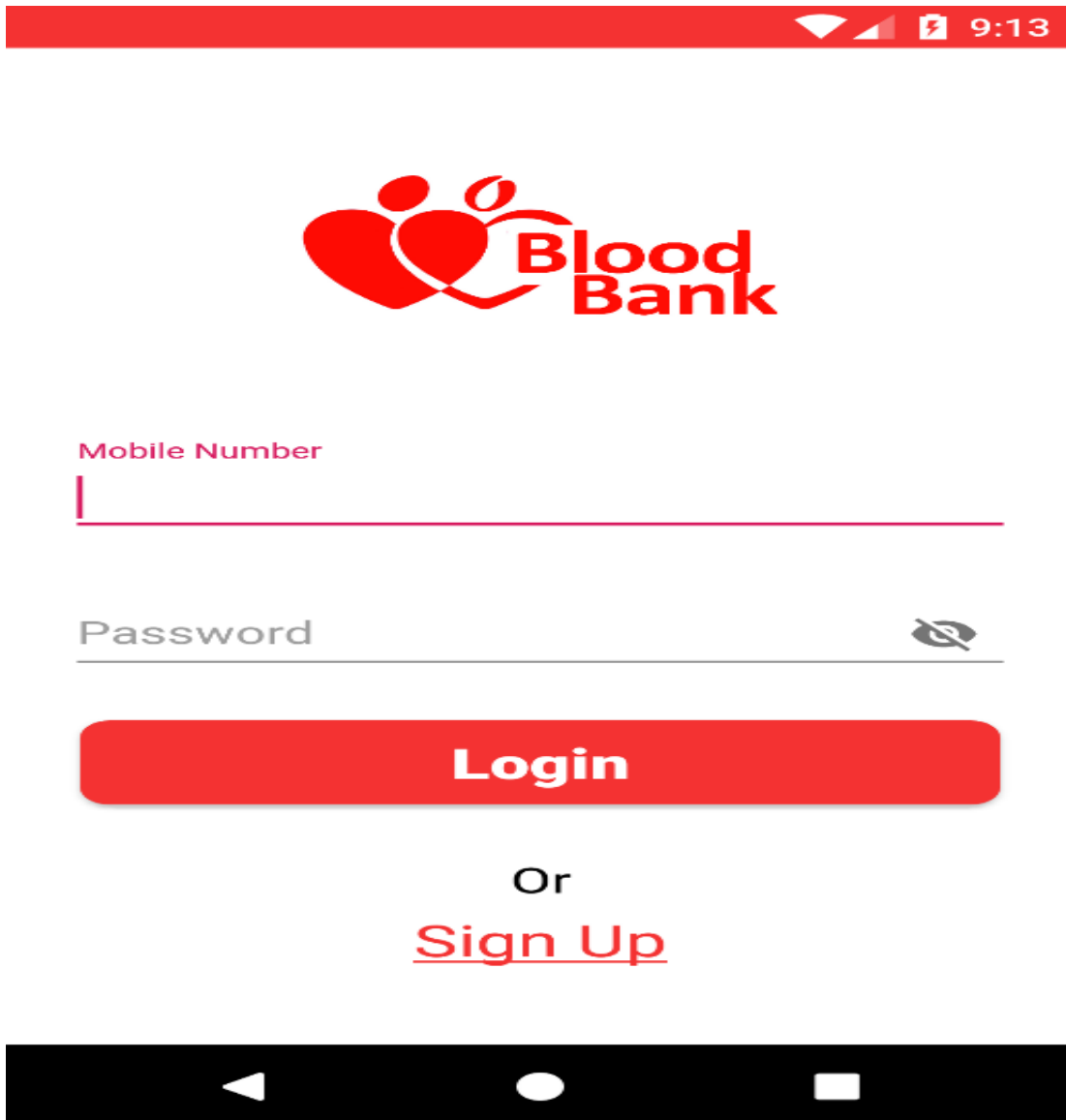
Password

Become a donor

Figure-4: Registration Page

5.3 Login Page:

A login page happens a location on the world wide web or an entrance page to a group of connected web pages that demand consumer means of labeling and confirmation, as a matter of usual practice, the act by embarking on the username and the secret word given for the entry mixture. Logins concede the possibility specifies an approach to a complete place of activity or the constituent, a group of connected web pages.



The image shows a mobile application interface for a 'Blood Bank'. At the top, there is a red status bar with icons for Wi-Fi, cellular signal, battery, and the time 9:13. Below this is the 'Blood Bank' logo, which consists of two red hearts and the text 'Blood Bank' in red. The login form includes a 'Mobile Number' input field with a red underline, a 'Password' input field with a grey underline and a toggle icon, and a large red 'Login' button. Below the button is the text 'Or' followed by a red, underlined 'Sign Up' link. At the bottom, there is a black navigation bar with three white icons: a back arrow, a circle, and a square.

Figure-5: The Login Page

5.4 Home Page:

A central page of a website (or the homepage) exists as the main central page of the website of use. The term in addition to refers to the individual or more pages has forever proved fashionable a request when the putting the substance on another activates. In this case, it exists as known or named at another time or the place on the start page.

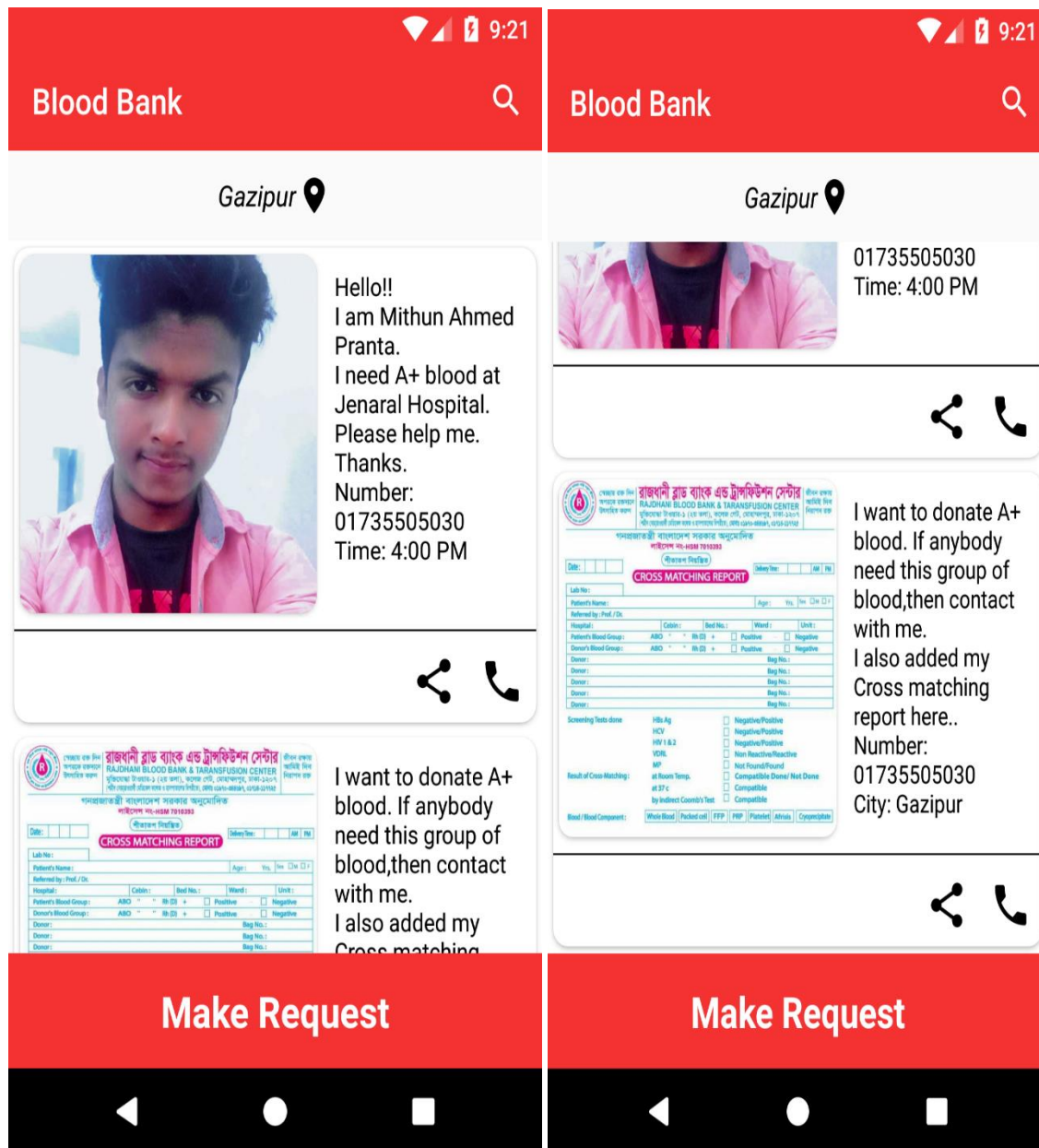


Figure-6: The Home Page

5.5 Post Request Page:

A post request page happens the entry page of putting the substance on another. On this page, we can post our necessity on this place page.

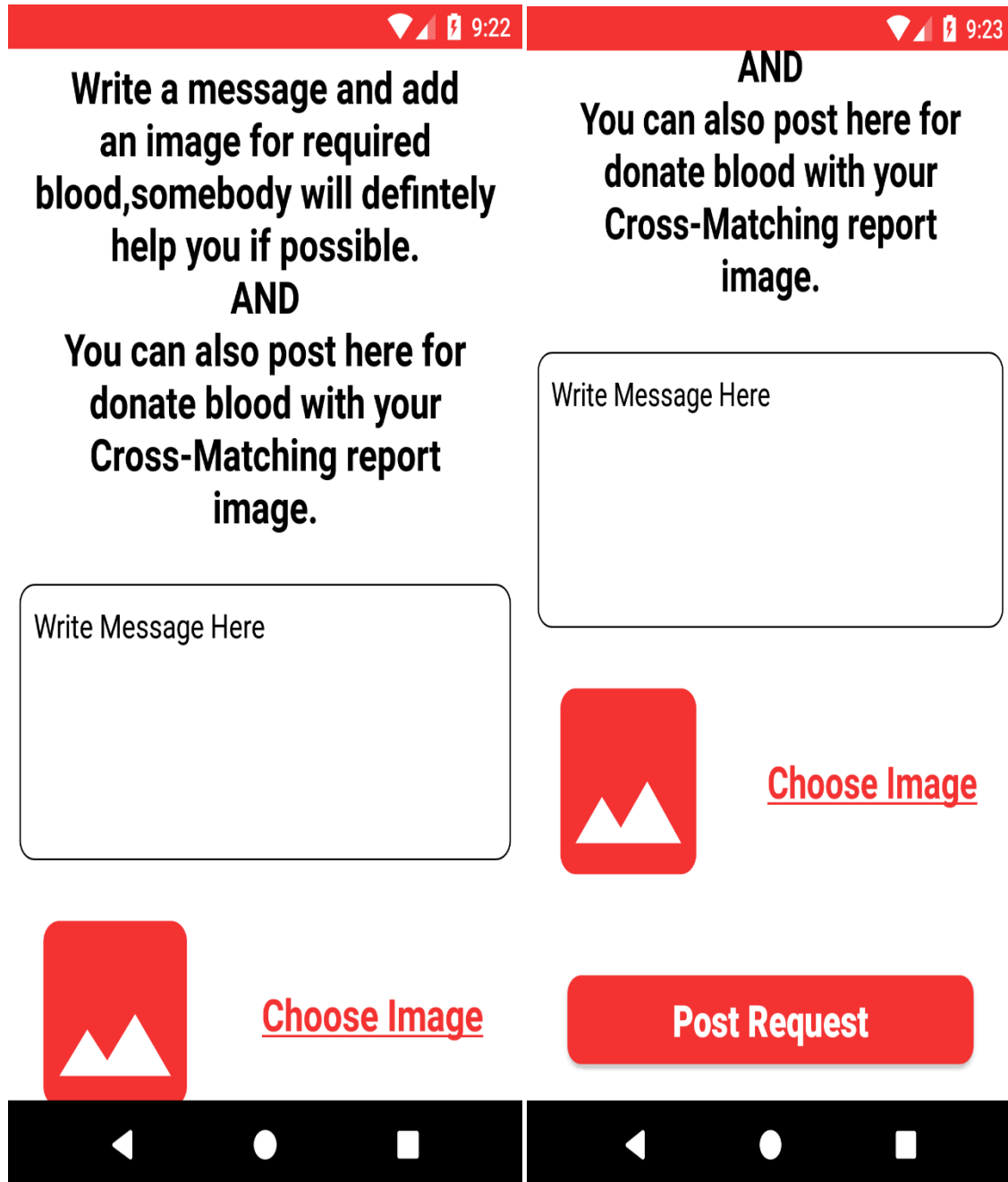
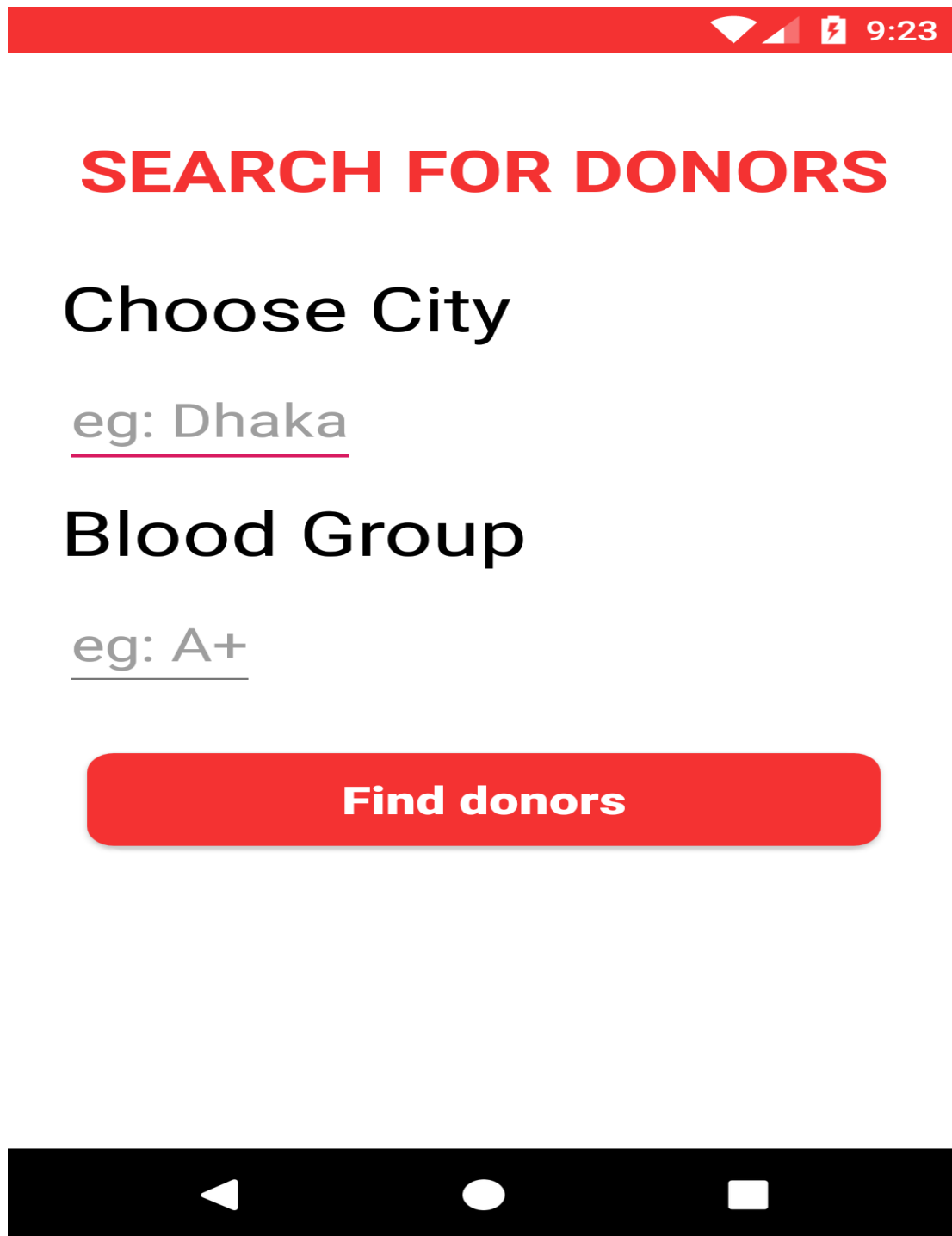


Figure-7: Post Request Page

5.6 Search Page:

On the search page, we can search blood donors by his/her city and blood group.



The image shows a mobile application interface for searching blood donors. At the top, there is a red status bar with icons for Wi-Fi, cellular signal, battery, and the time 9:23. Below this, the main heading "SEARCH FOR DONORS" is displayed in large, bold, red capital letters. Underneath, there are two input fields. The first is labeled "Choose City" in black text, followed by a grey placeholder text "eg: Dhaka" which is underlined with a pink line. The second is labeled "Blood Group" in black text, followed by a grey placeholder text "eg: A+" which is underlined with a grey line. Below these fields is a large, rounded red button with the text "Find donors" in white. At the bottom of the screen is a black navigation bar with three white icons: a back arrow, a home circle, and a recent apps square.

Figure-8: Search Page

7.9 Search-result-page:

On the search result page, we will find the list of blood donors.

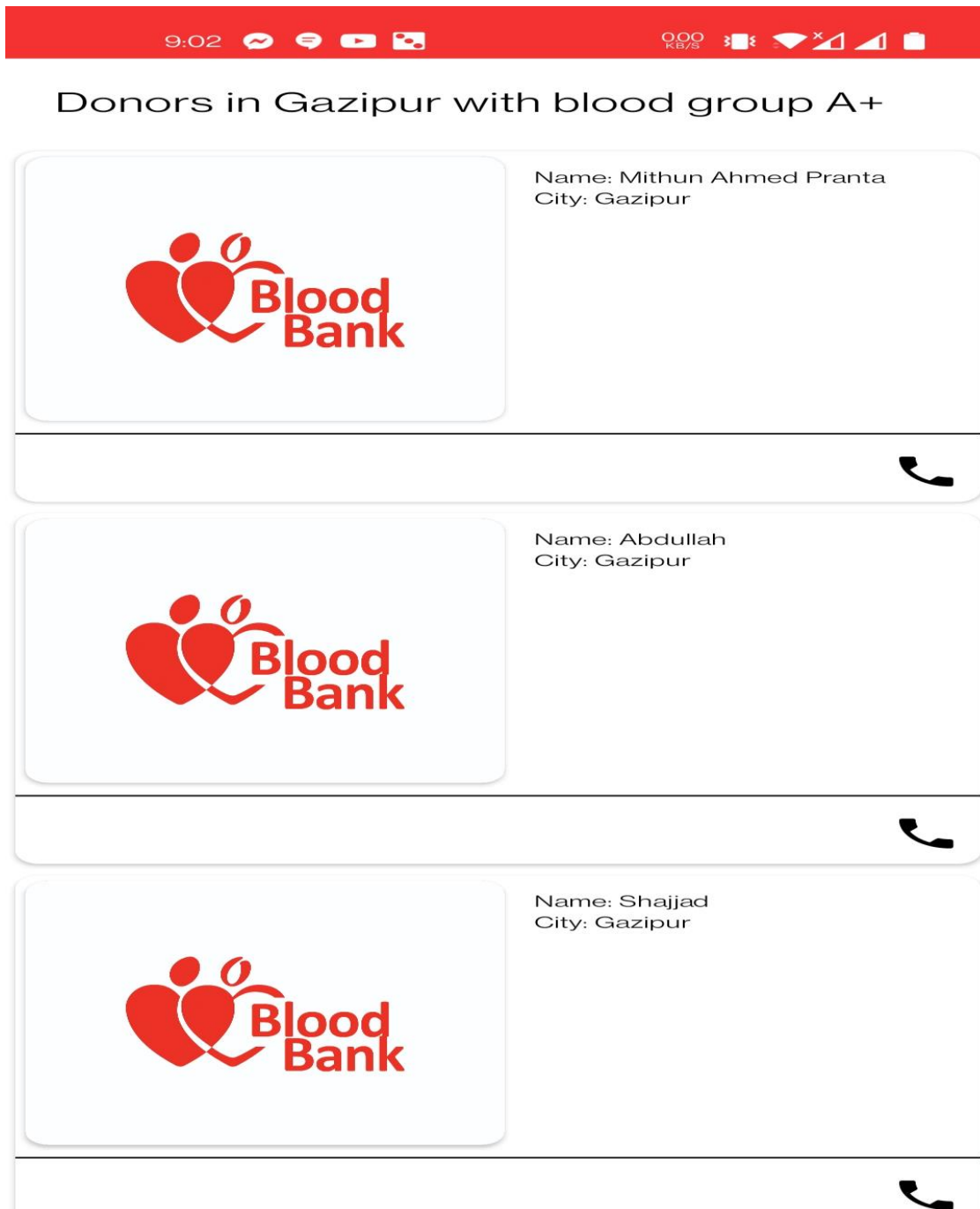


Figure-9: Search Result Page

7.10 Back-End Design:

We'll talk about coding in this section. We used PHP in the majority of the cases. The back-end is the part of the system that handles all of the logic. The user is unable to interact with this or any other portion of the system. The back-end design is where the real work takes place. This is the most important component in creating a system.

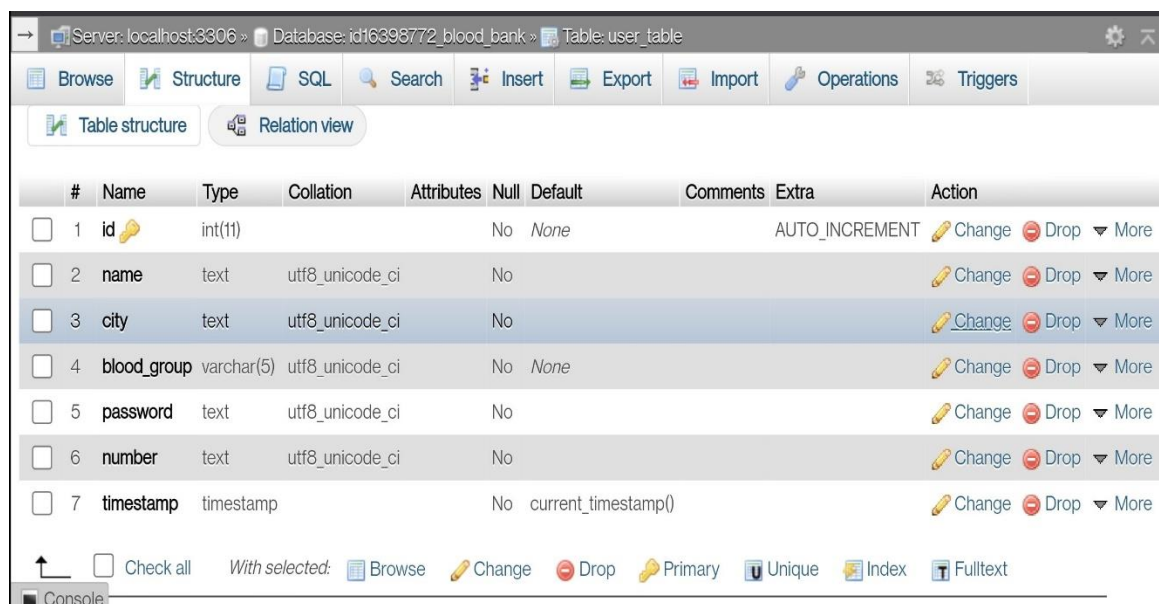
CHAPTER 8

Implementation

8.1 Implementation of the database:

We used the localhost database, which was specifically chosen for our project. The structure of our Blood Bank Management database is shown below.

Table 2: A Primary database for Blood Bank Management System



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐ 1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
☐ 2	name	text	utf8_unicode_ci		No				Change Drop More
☐ 3	city	text	utf8_unicode_ci		No				Change Drop More
☐ 4	blood_group	varchar(5)	utf8_unicode_ci		No	None			Change Drop More
☐ 5	password	text	utf8_unicode_ci		No				Change Drop More
☐ 6	number	text	utf8_unicode_ci		No				Change Drop More
☐ 7	timestamp	timestamp			No	current_timestamp()			Change Drop More

☐ Check all With selected: Browse Change Drop Primary Unique Index Fulltext

8.2 Some php codes:

init.php:

```
<?php
```

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```
$host = "localhost";
$user = "id16398772_nevergiveupboys";
$pass = "6Pzi|EAS_E041iXW";
$db = "id16398772_blood_bank";

$con = mysqli_connect($host, $user, $pass, $db);

if($con){

    //echo "Connected to Database";
}else{

    //echo "Failed to connect".mysqli_connect_error();
}
?>
```

register.php:

```
<?php
require 'init.php';
$name = $_POST["name"];
$city = $_POST["city"];
$blood_group = $_POST["blood_group"];
$password = $_POST["password"];
$number = $_POST["number"];

$sql = "INSERT INTO user_table (name, city, blood_group, password, number)
VALUES('$name', '$city', '$blood_group', '$password', '$number')";
```

```
$result = mysqli_query($con, $sql);
if($result){
    echo "Success";
}else{
    echo "Error: ".mysqli_error($con);
}
mysqli_close($con);
?>
```

login.php:

```
<?php
require "init.php";

$number = $_POST["number"];
$password = $_POST["password"];

$sql = "SELECT * FROM user_table WHERE number = '$number' and password = '$password'";

$result = mysqli_query($con,$sql);

if(mysqli_num_rows($result)>0){
    $rows = mysqli_fetch_assoc($result);
    echo $rows["city"];
}else{
    echo "Invalid Credentials";
}

?>
```

upload_request.php:

```
<?php
require "init.php";
$target_dir = "uploads/";
$target_file_name = $target_dir . basename($_FILES["file"]["name"]);
$response = array();

if (isset($_FILES["file"]))
{
    if (move_uploaded_file($_FILES["file"]["tmp_name"], $target_file_name))
    {
        $url = "https://never-give-up-boys.000webhostapp.com/" . $target_file_name;

        $m = $_GET["message"];
        $number = $_GET["number"];
        $sql = "INSERT INTO posts (id, message, url, number) VALUES (NULL, '$m',
'Surl', '$number')";
        mysqli_query($con, $sql);
        $success = true;
        $message = "Uploaded!!!";
    }
    else
    {
        $success = false;
        $message = "NOT Uploaded!!! _ Error While Uploading";
    }
}
else
{
    $success = false;
```

```

    $message = "missing field";
}
$response["success"] = $success;
$response["message"] = $message;
echo json_encode($response);
?>

```

search_donors.php:

```

<?php
    require "init.php";
    $city = $_POST["city"];
    $blood_group = $_POST["blood_group"];
    $sql = "Select name, number, city from user_table WHERE blood_group LIKE
'blood_group' AND city LIKE '%$city%'";
    $result = mysqli_query($con, $sql);
    $response = array();
    while($row = mysqli_fetch_assoc($result)){
        array_push($response, $row);
    }
    echo json_encode($response);

?>

```

get_requests.php:

```

<?php
    require "init.php";
    $city = $_POST["city"];
    $sql = "SELECT * from posts where number in (SELECT number from user_table
WHERE city = '$city')";
    $result = mysqli_query($con,$sql);
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```

```

$response = array();
while($row = mysqli_fetch_assoc($result)){
    array_push($response, $row);
}
echo json_encode($response);
?>

```

CHAPTER 9

Conclusion

We have proposed an Android smartphone application for blood banks that is both efficient and reliable. People may not be able to communicate with every hospital and blood bank when there is an urgent demand for blood. To combat the death rate, the application must be able to meet their criteria in a short period of time. As a result, the suggested system can assist anyone in need of blood at any time and in any location.

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