



# BLOOD BUDDIES

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## Abstract

The goal of this project is to create a system for managing blood donors and blood banks that may be used to donate blood. The Blood Bank Management System can be used to obtain information about nearby blood donors who belong to the same blood group to assist those who require blood in an emergency. People who are interested in donating blood can register on the blood donor website with the aid of Blood Donor. The Website displays the location of the nearby Blood camp so that the Donor can easily get there.

## Introduction

In the age of modern medicine, the care of patients depends heavily on blood [1]. The major concern for hospitals and blood centers today are patient safety [3]. Blood Bank Management System was created from the views of an NGO and a hospital. The NGO has details about the camp, including the name, seats, date, start time and end time as well as addresses, including the state, city, and precise location of the camp. The NGO also has details about the blood types that are available at the camp. The NGO's primary goal is to organize the camp and provide blood to the accredited hospital, saving the patient's life. A link between the hospital and NGO is created via the blood bank management system. They are both interconnected in a way that makes it easy to complete our assignment as soon as possible.

## Aims & Objectives

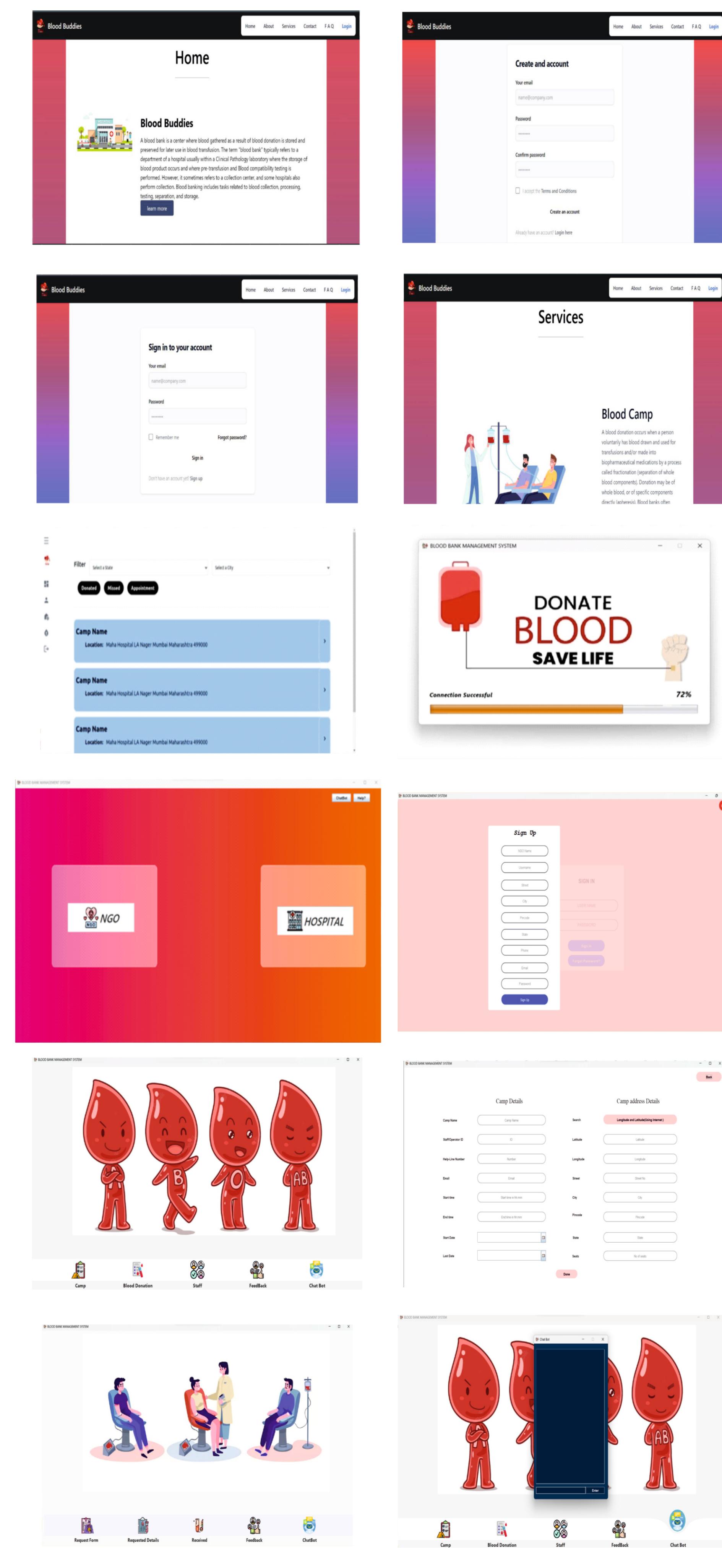
1. To help society to collect blood in an efficient way.
2. To maintain the privacy between hospital and user.
3. To Enthusiasm the young generation to donate blood.
4. To use GPS Service for locating the camp.
5. It also provides information about Blood donation camp details.

## Methodology & Implementation

The Blood Buddies is the one that will be created. This is a web-based application solution that donors can use. The shortcoming of the existing system are overcome by this system. The following are some characteristics of the suggested system:

- Registered users/donors can locate nearest blood camp.
- It provides security for users using username and passwords
- GPS systems are used to track the nearest location of blood camp.
- Health care services is an area with strict requirements as it refers to human life [5].
- Blood Donor is a website based solution that is designed to store process, retrieve and analyses information.
- The website enables users to save donation information there. A special identifying number is immediately provided to the donor as soon as they register.
- At the time of the donor details, the physical and medical information of the donor is stored.
- The donor can check the neighboring camp on the internet. On the webpage, the camp location is shown using Google Maps.
- Registration is also finished at the blood camp to prevent having to do it again at the donation camps.
- The donor gets access to all information about the camp and can edit his user profile since the history of his camp registration is also shown.
- Additionally, Authors provide a support system where the donor may turn if they have any inquiries concerning the blood camp.
- The ranking system on the website ranges from 1 to 10.
- Blood donation frequency can enhance the level, which might lead to intense competitiveness among young people.

## Result & Analysis



## Conclusion

A trustworthy platform is provided for both donors and acceptors by the proposed Blood Bank Management System. A web-based programmed called "Blood Buddies" helps to reduce human mistake and issues with data redundancy. The data entered will be followed to ensure, increasing the likelihood that someone's life may be saved. Additionally, it is easier to discover the closest blood camp thanks to a location-based system that is available, such as Google Maps.

## Future works

This paper proposes a Blood Bank Management System and Blood donor website which Authors believe will bring remarkable change. support for numerous regional languages to accommodate the increasing number. Authors will create a portable, customized Blood donor-based Android application over the next phase.

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