



## Web Designing for Online Blood Donor Management System

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**Abstract:** In Online Blood Donor Management System is the support function of an organization and it means having the right object, at the right place, in the right time. The main motto behind this project is to provide desired way of blood donation with Availability of blood as needed so that the user can place his order for blood Requirement whenever needed, to fulfil this requirement all possible ways of Donation and information of availability are put up at a single platform with Tracking of active camps facility. For entire website development HTML, CSS, Bootstrap, JavaScript are used for designing and PHP for backend database Connectivity. The report contains detailed information about methodology, research and process of developing the website.

**Index Terms** - Online Blood Management, Blood donation, Web Development, camps, donor activities.

### I. INTRODUCTION

**Online Blood Donor Management System is the support function of an organization and it means having the right object, at the right place, in the right time. Online Blood Donor management involves planning, organizing, leading, Coordinating and controlling Online Blood Donor activities of an organization. This Report is all about website development for Blood Donor systems to provide Updated information about the Blood Donor camps. Providing online facility of Reserving slot for blood is more efficient way for Blood Management companies to Explore their camps and availability of blood. Along with that it reduces the efforts of searching trusted and availability efficient option for user.**

### II. PROBLEM STATEMENT

As new technological advancements have touched every field, doing every work online is becoming more and more popular as they are as per peoples convenient. Nowadays there are number of online blood bank are available, however many of them do not offers the capability for the direct contact between the donor and the recipient. This is a major drawback particularly in cases where there is an urgent need of blood. Our work aims to overcome this communication barrier. By creating a blood bank database that contains complete details of donors. The data collected will be maintained in a central server by a database administrator. System provides reliable by Considering the location of the donor and receiver.

### III. LITERATURE SURVEY

The Manual Blood donation system has many disadvantages which includes, it Is too time consuming, often leads to error prone results, consumes lot of manpower, Lacks donor information, retrieval of data takes a lot of time, percentage of accuracy Is less. Till now there are online websites for blood donation but we cannot register for Donation online. The online websites have facilities only to call the specific website without online Registration.

### IV. PROPOSED SYSTEM

The system Proposed as -Online Blood donor management system is a website designed to help the Blood Bank Administration and blood donors to cover the demand of Blood by Sending and/or serving the request for Blood requirement as and whenever required. The proposed system gives an approach of how to bridge the gap Between Receiver, Donor, and Blood Banks and blood camps. This website will provide a common ground for all the Three parties (i.e., Receiver, Donor, and Blood Banks and Blood camps) and will ensure the fulfilment of lead for Blood Requested by Receiver and Blood Bank. The admin is responsible for the overall system performance, he can add employees and remove them accordingly. In this proposed system members can

login and join as they wish and request for blood/donate according to their will. The proposed system has the following goals & has the scope as follows:

a) Goals:

- To easefully fulfil the process of blood donation and Blood Receiving.
- To improve the existing system, buy the given proposed system.
- To develop a system will is scalable and easy to use.
- To be highly available and user friendly.

b) Scope:

- Ensure that all the functionalities and duties of a Manual blood bank are fulfilled
- To include all the blood banks & blood camps at least within limited geographical area as a city.
- Make sure the program is efficient.

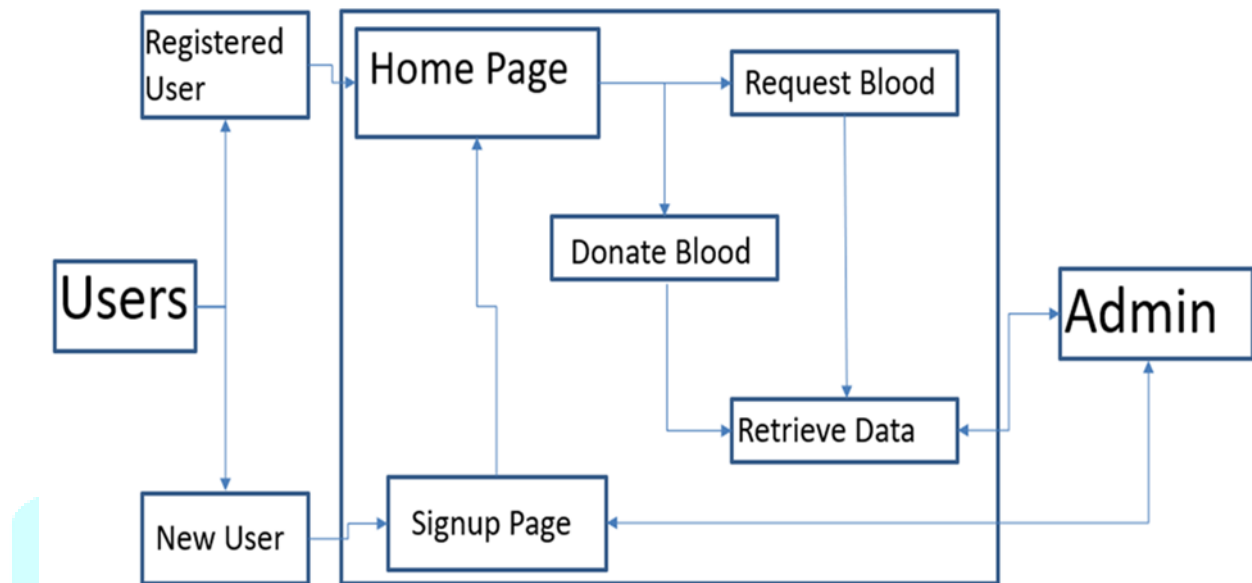
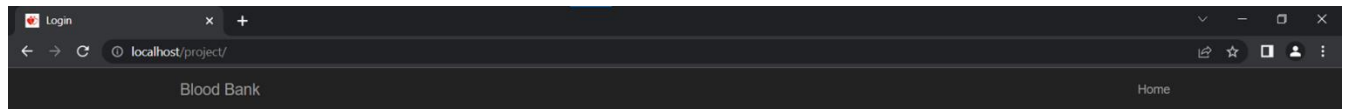


Figure 1. Proposed Architecture

## V. STEPS TO DEVELOP THE PROJECT

- Examine the problem statement & requirements. Study the problem in terms of what we want to predict and what kind of observation data we have to make from those predictions. Generally, prediction is a label or a target answer, it may be a yes or no label (binary classification) or a category (multiclass classification) or a real number (regression).
- Collect and clean the data  
Identify what kind of historical data we have for prediction modelling; the next step is to collect the data from datasets or from any other data sources.
- Prepare data for ML application  
Transform the data in the form that the Machine Learning system can understand.
- Train the model
- Before training the model, it is essential to split the data into training and evaluation sets, as we need to monitor how well a model generalizes to unseen data. Now, the algorithm will learn the pattern and mapping between the feature and the label.
- Evaluate and improve model accuracy  
Accuracy is a measure to know how well or bad a model is doing on an unseen validation set. Based on the current learning, evaluate the model on validation sets.
- Test the model

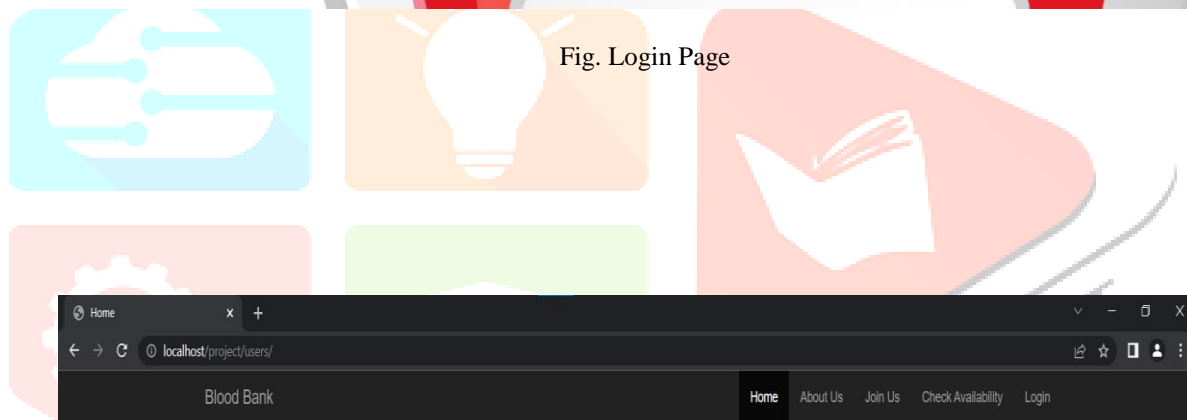
## VI. RESULT



### User Login



Fig. Login Page



## Why Are We Here For?

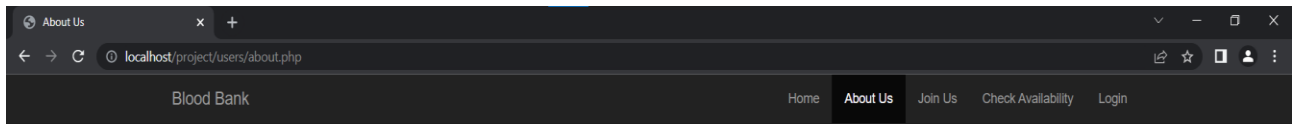
Blood Bank Management System (BBMS) is a browser based system that is designed to store, process, retrieve and analyze information concerned with the administrative and inventory management within a blood bank. This project aims at maintaining all the information pertaining to blood donors, different blood groups available in 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.



## Features-->

- Blood Donation Camp & Camp Organiser Management.
- Donor Management - Donor Registration, Managing donor database, recording their physical and medical statistics.
- Inventory management in blood bank for storage and issuance of blood.
- Blood requisition and issuance of blood.
- Online transfer of blood from one blood bank to another.
- Discarding of expired and unsuitable blood (Less Qty., Reactive, Clotting, Hemolysis).
- Being a web based system, can be implemented throughout the state. - - Separate user accounts can be created for each blood bank.
- Patient Register/Blood Sample Receiving Register, Donor Register, Blood Issue Register and Discarded Blood report.
- Fridge Wise Stock Position and Printing of Fridge Stickers.
- List of Donors who are eligible for donation on a particular date with contact Number.
- Camp Wise Donor List and Printing of Donor Cards.

Fig. Home page



# About Us

We are a non-profitable organization which aims to provide a better and easier way to find the required blood needed at the time.



Fig. About Us page

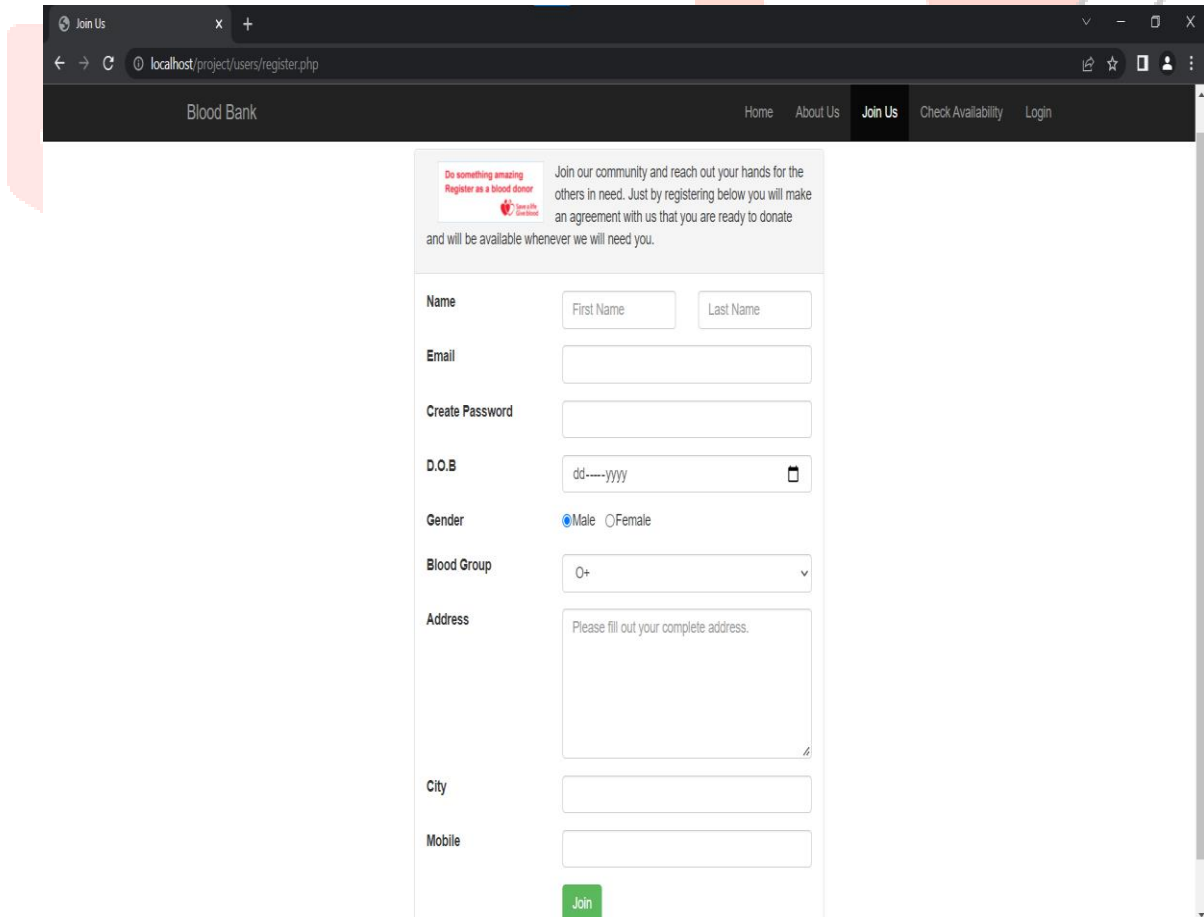
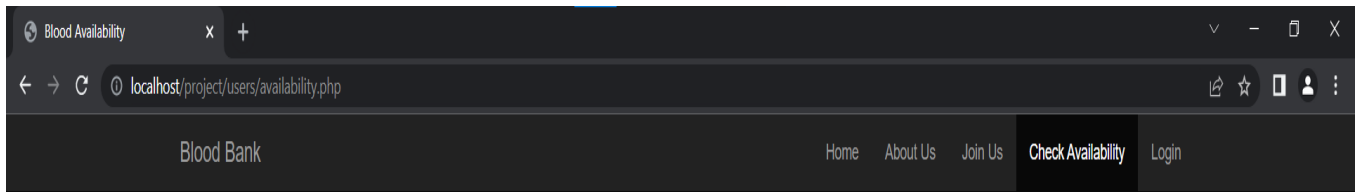


Fig. User Register Page



Select Blood Group:

Total number of donors with A+

**1 Donors**

Name	Gender	D.O.B	Address	City	Blood Group
Priyanka Yadav	female	1994-02-02	Somewhere near Panehra	Jabalpur	A+



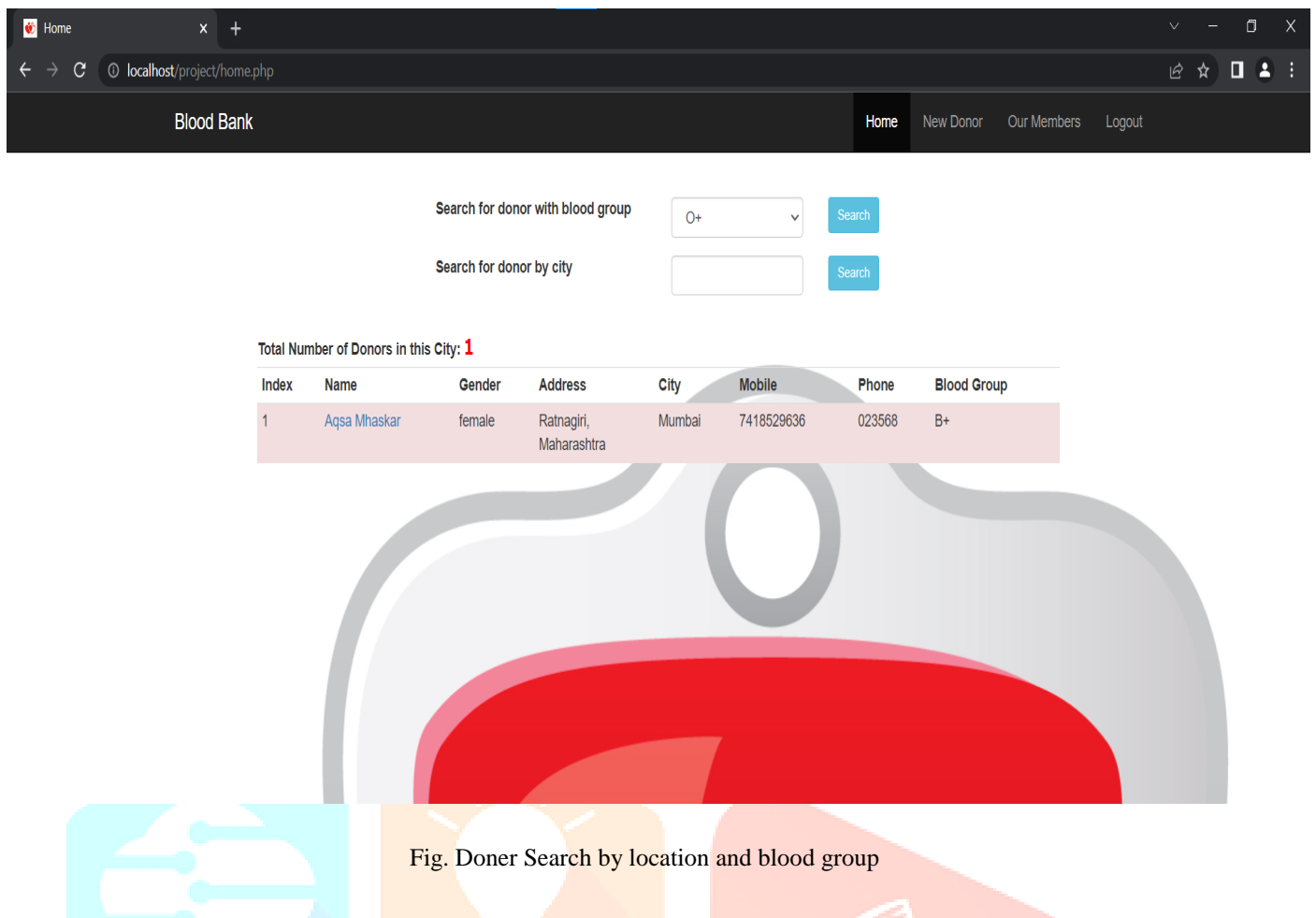


Fig. Doner Search by location and blood group

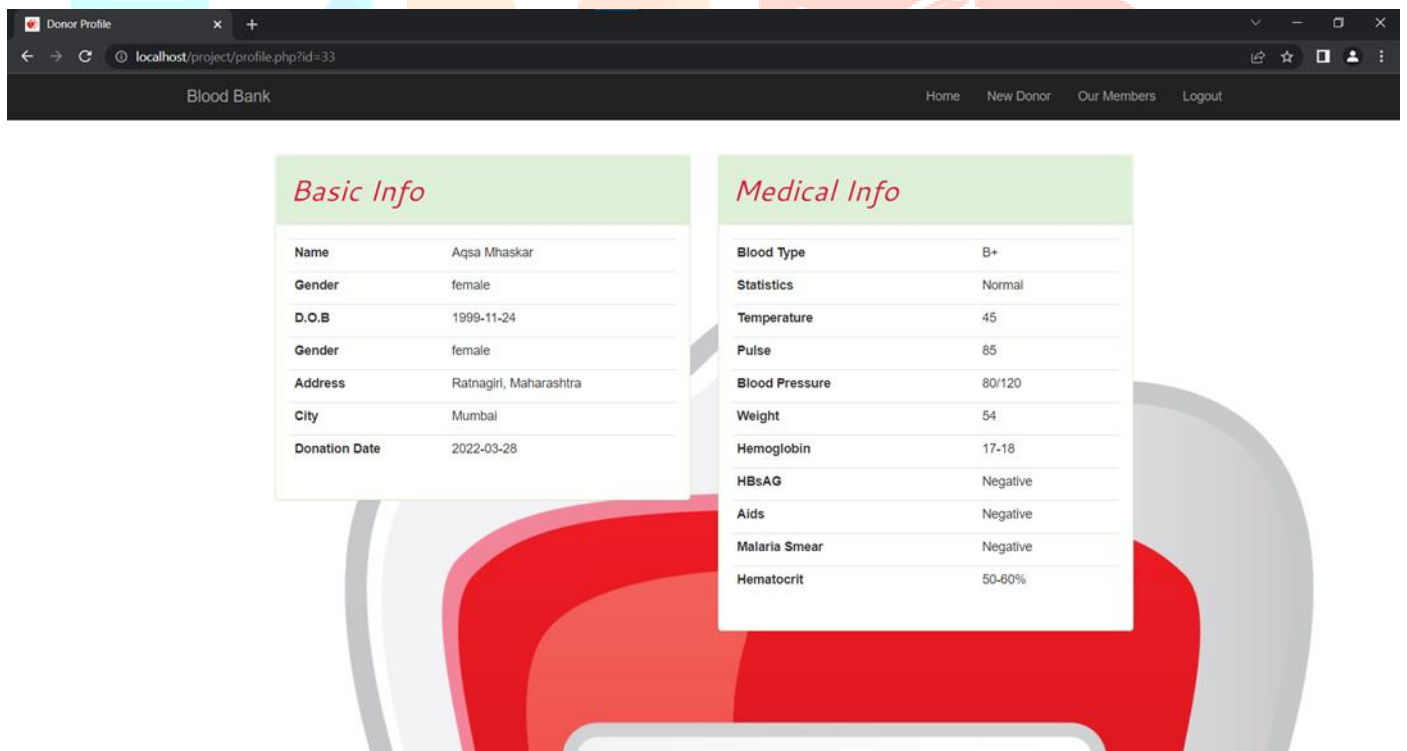


Fig. Doners Details

**VII.CONCLUSION**

This project will make blood donation system less time consuming compared to Manual system. The user will get the correct information of donor without being cheated. The time required for retrieval of the data can also be reduced compared to Manual work. It will be helpful at the time of emergencies. It will be portable and convenient.

**VIII. ACKNOWLEDGMENT**

The project was successfully completed under the guidance of our Head of Department, Dr. Vinayak A Bharadi; Project coordinator, Prof. Priyanka Bandagale and Project Guide, Prof. S. Sankarshwari. We would like to thank them for all of their efforts and help which indeed helped us in completion of project and gain more knowledge through research and study.

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