**WEB PAGE FOR BLOOD WALLET**

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**ABSTRACT**

There are many number of online blood donor databases are available, however none of them offer the capability for a request for blood directly to the donor by sending SMS. Here the request is send via SMS. Our project aims to overcome this barrier by providing a SMS to the donors. This is the single platform for donor and blood needy .A blood wallet database having collection of donor details. The information about the donor will be stored securely in the database. The data collected will be maintained in a central server. This central server will send SMS to the donors who matches to the needy requirement. From the server the call from the required person is routed to the eligible donor's number. Donor receive an SMS about needy details through which the interested donor contact to the needy. Such a system reduce the overheads involved in the existing system by calling the donors and verifying their willingness at a time when there is a critical need for the blood

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**Keywords:** *Online blood donors, SMS to donors, blood camp details, blood.*

**1. INTRODUCTION**

Blood is the fuel of life. It is mandatory for ever human to live. Now a day’s technology is improving, for ever surgeries, organ transformation but the blood is the source.

In India for every 2 seconds the blood is required. It is difficult to search the donors by the needy in the emergency situation. So this website will help to the needy to approach donor according to the needy location. Blood Wallet is a Web based application that is designed to store, process, retrieve and analyse donor’s information concerned with the administrative.

This application helps people receive notifications on urgent blood need, know their eligibility to give blood, they can apporoach the needy. There by the person who need blood no need to call to all the donors in that emergency situation.

* 1. **Scope and Objective**

The main scope of this “Blood wallet” is to share the needy details to the donors in emergency situation without their own efforts to make call to all the donors. Short message service (SMS) provides the communication platform among the blood donor and the person who require blood. The person who need blood need to request their requirements in website by which the server send SMS to the donors who matches such requirement criteria.

In the SMS it contains needy personal details and contact details.

**1.2 System design**

The blood wallet is the web application using html5, PHP, bootstrap, apache server and Heidi SQL. In this the html and bootstrap is for the front end. The PHP is the middleware which is for connecting the front end and the backend. Heidi SQL is use as backend. The database “wallet” containing seven tables. They are needy, donor, OPT, camp, location, blood, admin. Ajax is used for dynamically load the page. Java script is used for the front end scripting.

**1.3 System security**

This system will provide security by encrypting the data while storing in the data base. The algorithm used for this security purpose is MD5 and the data validation is using java script.

**3. LITRATURE SURVEY**

**3.1 Related web pages**

Some existing applications of blood donation system are manual which cannot upload the latest update and there is no use of web services and remoting. There are some draw backs that need to overcome for it

The “friend to support” is the famous web application and mobile application for blood donation system. The updates are not done properly, the updated details not visible immediately in the web page.

“Friends2support” is an organization that brings voluntary blood donors and those in need of blood on to a common platform. Through this website, they seek donors who are willing to donate blood, as well as provide the timeliest support to those in frantic need of it. Donor need to request to admin to update their own details it takes more time. Anyone can update the donor details without the donor concurrence by submitting their report.

“Sahaya's Online Blood Donors Club” is another honest attempt to create awareness about it. The need of voluntary blood donation and inspire the general public to donate blood, the precious gift of life in a regular basis.

**3.2 Need for better system**

The proposed system can overcome from all the drawbacks in the existing systems.

This application provides necessary options to serve people on their emergency need making them free from worrying for blood by sending SMS to lot of donors at a single click. The donor need to have individual login to update their recent donation and their physical acceptance to donate blood and to update contact information. It provides high level of security withuser authentication there by no one can update any person’s details. If the donor not ready to donate blood he/she can update their status by set “Inactive”. System will serve needy expectation to the blood as simple as by SMS Notification.. User friendly, upcoming blood camp details, Needy details are displayed in website.

**4. WORK FLOW­­­­­­­­­­­­­­­­­­**

**4.1 Donor**

The donors are the person who voluntarily ready to donate blood to the needy.

In this web application donors should register themselves by filling the required details. While submitting the details they should accept the terms and conditions for being a donor. It creates separate login to each donors after registration process is completed. Phone number for donor is validated and verifying by sending OTP. They can authenticate through the email also. With the individual login they can update their information

**4.2 Needy**

The needy are the person who required blood. The needy need not to be a registered user in the system. Anyone can request via the system. The needy need to fill requirement form. The following requirements are need gathered for the needy:

* Personal Details include name, age, blood group
* And no of units need, reason for blood required, when the blood required
* Contact details includes to whom need to contact their name and contact
* Organizational/hospital details includes Hospital name, State, City

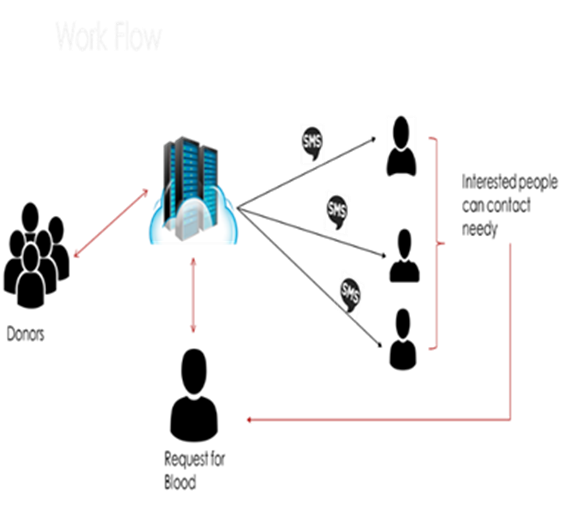
After entering the details the information stored in the database .The server SMS send to the donor based on their requirements.

**4.3 Camp details**

In this module the upcoming blood camp details are displayed and their information such as date, place and time will be displayed on it. The user can upload information about the camp which will be held in future .It will be processed by admin only by the proper acceptance the camp details will be display.

**4.4 Admin**

Admin is the person who manage this blood wallet web application. Admin have to process queries from the users and to upload camp details by proper authentication. The admin is to maintain the database of needy, donor and others details.

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The above diagram represent the work flow of this application.

Work flow illustrates that the interested user enrol as donor to the system, if donor matched by any needy requirement they will get SMS notification when any needy submit request.

**4.5 PROJECT REQUIREMENTS:**

**SOFTWARE REQUIREMENTS**

Technology:  PHP.

Technologies: Html, JavaScript, CSS.

Database: MySQL Web Server: APACHE.

**HARDWARE REQUIREMENTS**

Processor: Intel Pentium

RAM: 1GB

**5.CONCLUSION AND FUTURE WORK**

**5.1 CONCLUSION**

The primary objective of the paper is to create an interactive blood donors and the blood requesters . This web application is to be conceived in its current form as a dynamic site requiring constant updates both from the blood donors as well as the blood requesters and is to enable blood donors (volunteer) to place their profile and blood requesters (patients) to publish their requests.

**5.2 FUTURE WORK**

In future, we will develop the mobile application which will provide the users (with multimedia cell phones) the service of finding a blood donor with map interface. Here the application will consist of a map which will highlight the various blood donors’ locations and also it will give information about particular blood donors.

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