SYNOPSIS

ON

Rakt Sanagrahalay

(Online Blood Bank Managment System)

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INTRODUCTION

The Software System is an online blood bank managment system that helps in managing various blood bank operations effectively.The software in such a way that user may not have any difficulty in using this package & further expansion is possible without much effort. Each user's activity in computerized way rather than manually which is time consuming. People will no longer get caught in hospital red tape to procure blood. Detailed information about the blood stock position, blood group, blood components and the procedure of getting blood is now available on the Internet. It is a Web Based Blood Bank System and provides following features :-

- The stock of blood for various groups in the various blood banks.
- Online registration to people who are willing to donate blood.
- GroupWise listing of various blood groups.
- Online submission of registration forms.
- All the process of submission of registration form is quite simple.
- Department can collect information regarding various blood groups.
- People can get registration by sitting at home.

This software package can be readily used by non programming personal avoiding human handled chance of error.

EXISTING SYSTEM

- It is time consuming
- It leads to error prone results
- It consumes lot of manpower to better results
- Retrieval of data takes lot of time
- It lacks of data security
- Percentage of accuracy is less
- Reports take time to produce

USE OF PROJECT

- The user that are in need of blood can register online and find their nearest hospital or donors online.
- Donors can also register in the system to post their donation information.
- The system automatically store the information as soon as there is updation made.
- The system automatically find the donor information when the user enter their requirement.
- The system automatically finds the blood type required according to user's need.
- Users can get all blood donors information in this system instead of searching here and there.
- The system is very effective during emergency condition of patient.

FUNCTIONAL SPECIFICATION

1. **Administrative Module:-** is the overall controller of the online blood bank system. It updates itself as well as other modules. This module is responsible for uploading donors information, authenticating the user profiles along the maintenance of other four modules
2. **Login Module:-** This module is responsible for login and sign up in our website so that user can takes banefits of our website.
3. **Submit Request Module:-** This module is responsible for user as well as donor . For user they can submit their requirement and for donor they can submit their request for donating blood.
4. **Hospital Module:-** This module is used to connect various hospitals across the cities for the availability of blood.
5. **Bill Generate Module:-** This module is used to provide the patient details and the payment bill generator page.

FEASIBILITY OF PROJECT

The feasibility study is performed to determine whether the proposed system is viable considering the Technical, Operational and Economical factors. After going through feasibility study we can have a clear-cut view of the system's benefits and drawbacks. Technical Feasibility: The proposed system is developed using CSS, JavaScript and HTML as front-end tool and Firebase or PHP as the back end. The proposed system needs a Personal Web Server to serve the requests submitted by the users. The Web browser is used to view the web page that is available within the Windows operating system itself. The proposed system will run under Win9x, NT, and win2000 environment. As Windows is very user friendly and GUI OS it is very easy to use. All the required hardware and software are readily available in the market. Hence the system is technically feasible.

Economical Feasibility: As the necessary hardware and software are available in the market at a low cost, the initial investment is the only cost incurred and does not need any further enhancements. Hence it is economically feasible. The system is feasible in all respects and hence it encourages taking up the system design.

Gathering Information:

The analysis through collection of data plays the wider role in the analysis of the system. So the data is collected at different levels of management to keep track of full information of the system.

The collection of data is done from:-

- Top Level Management
- Middle Level Management
- Low Level Management

Future Scope Of The Project

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

- We will host the platform on online server to make it accessible worldwide.
- We can give more advance software for Blood Management System including more facilities.
- Integrate multiple load balanacers to distribute the loads of the system
- Implement the backup mechanism for taking backup of codebases on regular basis on different servers

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this project. Here we can maintain the records of blood bank and blood group. Also, as it can be seen that now-a-days the players are versatile. i.e. so there is a scope for introducing a method to maintain the blood bank system. Enhancement can be done to maintain all the blood bank, blood group, donor, blood stock ,Blood cell.

Software Specification

- Technology Implemented: Web Based
- Language Used: HTML5,CSS,JAVASCRIPT
- Database: Firebase and PHP (for local server)
- Web Brower: **Google Chrome , Microsoft Edge**

Hardware Requirements

- Processor: Intel I3/I5 8^{TH} & 5^{th} generation
- Operating System: Windows 10
- RAM: 4 GB
- Hardware Devices: Monitor, HDD , SDD
- Hard Disk: 1 TB
- Display: 15.6 inch Full HD+