Data storage and scheduling of blood donation management through web application

K.Indhumathy[1], Y.Reshma[2], V.Sindhuja[3]

UG Scholar Department of Information Technology, S.A. Engineering College, Chennai, India[1,2,3]

Abstract: The title project is Blood Bank Management System. The Front end used is HTML,CSS with PHP and the back end is SQL Server. In this project there are several modules such as Donor's site, Receiver's site, Demand list. These modules are further divided into name, age, gender, blood group ,contact, address are in the donor's site. These modules gives a way in managing the data efficiently. So, this project helps in efficient management of the data for long time. Also, it consumes less time consumption. The main and important benefit of this proposed system is that it is very much user friendly and accurate .So, the user feel so much comfortable to work with it. Also in all the modules the regularly updated information are very much useful when they are extracted. The main aim of this system is to make the availability of blood easier. This system mainly reduces the work task and it is easy to maintain the records for the long time. The user can check the demand for blood by clicking the demand list. With the help of this system registration can be done very easily. In receiver's site the person who needs blood can give the necessary details and find their appropriate match. So, the maintenance and management of registration became very easy.

Keywords: Online Blood Bank Management System, Blood donation, Web-Based System.

INTRODUCTION

Help Line is an voluntary and non-governmental organization.It maintains Online library of blood donors in India. Sometimes Doctors and Blood bank project have to face the difficulty in finding the blood group Donors at right time. Help Line has attempted to provide the answer by taking upon itself the task of collecting Blood bank project nationwide for the cause and care of people in need.

At any point of time the people who are in need can reach the donors through our search facility. By mobilizing people and organization who desire to make a difference in the lives of people in need. On the basis of humanity, Everyone is welcome to register as a blood donor.

Blood Bank Management System (BBMS) is a browser based system that is designed to store, process, retrieve and analyse 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.

MOTIVATION AND SCOPE

The system is used for maintaining all the process and activities of blood bank management system. The system can be extended to be used for maintaining records of hospital, organ donation and other similar sectors. While developing the system, there shall be space for further modification. There shall be a proper documentation so that further enhancement becomes easy. As a whole the system is focused to work with blood bank management system and on additional modification it can be also used as management systems of similar organizations.

EXISTING SYSTEM

It was difficult to set the JDK information on the system in the mean time. Moreover it was a time consuming affair if a person is new to start working with java.
• It was difficult to solve the problems those were arising during a particular installation of the software because of hardware compatibility issues.


• Moreover there is usage an issue concerned with the software .This issue has been resolved by the WEB-IDE by providing Integrated Environment facility to its users.

• This system provides the feature of uploading a java file already on the local machine of the user or he can make altogether a new java program using this IDE and save it on his local machine
also.

PROPOSED SYSTEM

This was a preliminary investigation done with a view to have a "feel" of the working of the proposed system. This phase has been identified the end-user directly involved in the system who were the managers, assistant officer and database administrator, and the development department. By understanding the working of database, its flow and also after conducting meetings and interviews with the concerned persons of the department, a clear idea about the working was obtained. A flexible approach is adapted towards people who are interviewed. Short hand written notes are prepared based on the response of the employees. The interviews are preferably conducted at the work place of the person being interviewed. Detailed investigation is done in order to define the scope of the problem .The interview is concluded with a quick resume of the ground covered during the interview .The Questionnaire technique is combined with interviews to get the best result. Proper care has been taken in the design of such questionnaires so that the persons answering these questions do not feel hesitant. An explanatory note that serves to gain cooperation and avoid misunderstanding by setting out the purpose of the exercise clearly accomplishes each questionnaire.

Fig 1: Existing System Architecture
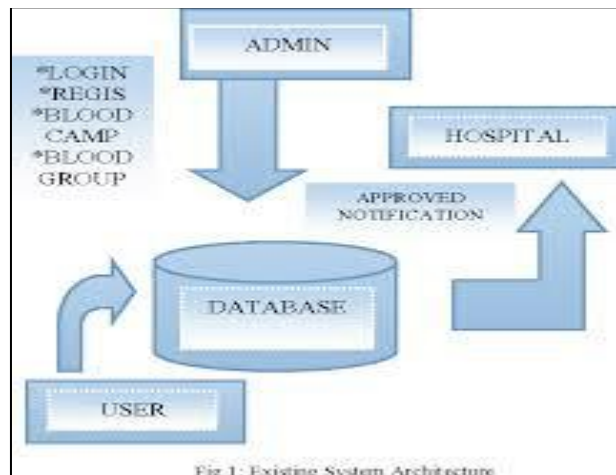
UML DIAGRAM
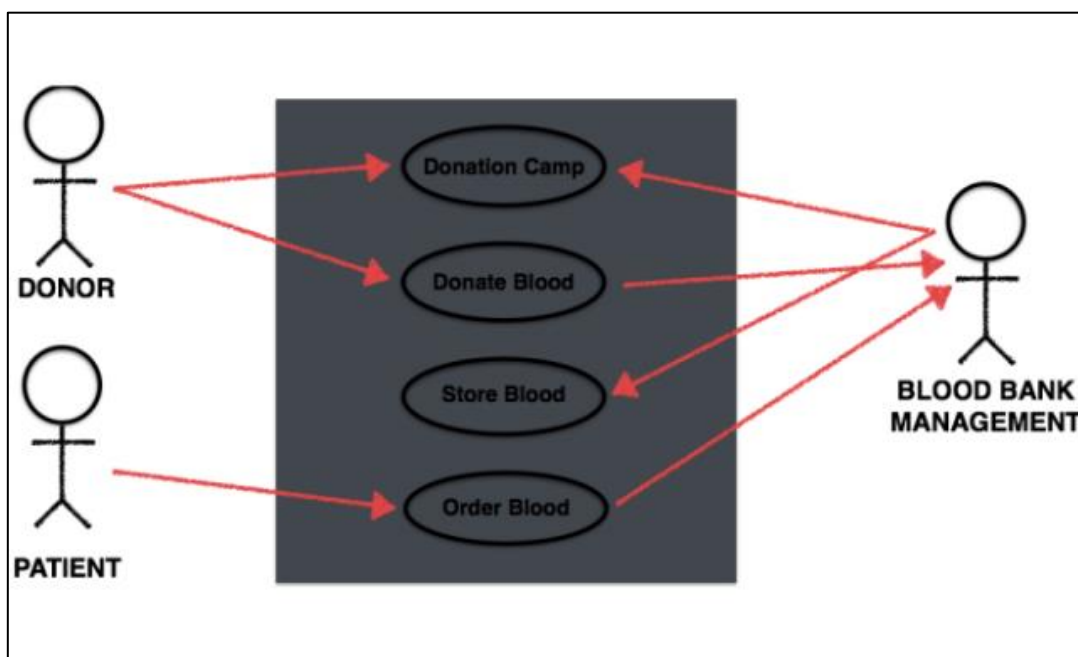
PROPOSED SYSTEM DIAGRAM:
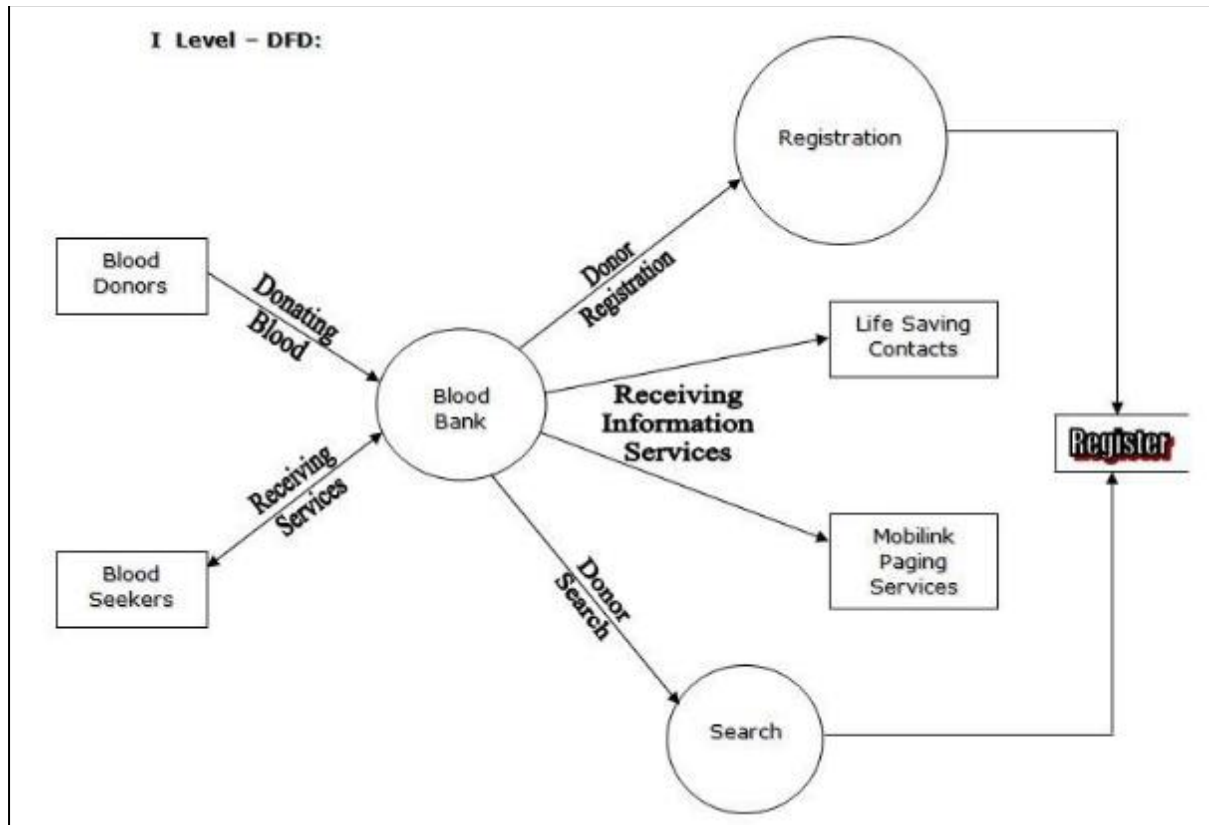
MODULE DESCRIPTION:

BLOOD DONATION is a website based on PHP. The purpose of this project was to develop a blood management information system to assist in the management of blood donor records and ease or control the distribution of blood in various part of country basing on the hospitals demand. . This project includes mainly two modules i.e. login and main page

• Provides filterable selections for donor selections

• Excel download of all reports

• The reports are highly configurable and can be configured to display data as per institution requirements.

Search based on Component ID, Donor Registration ID, Donor   Number and Donor Name
a) The results displayed in search is highly configurable
• The search functionality also allows for site-wide search. It means a user can search for any data available in the system

• Custom links can be added in the search results to allow easier navigation and accessibility .

RESULT MODULE:
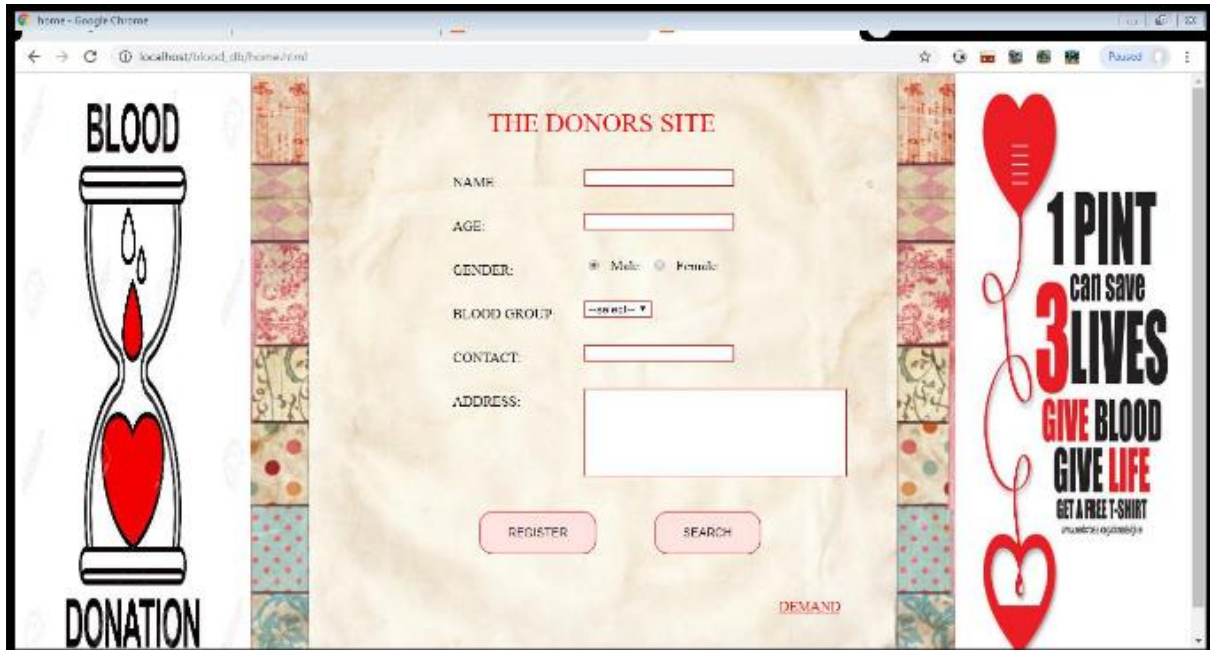
CONCLUSION:

With the theoretical inclination of our syllabus it becomes very essential to take the atmost advantage of any opportunity of gaining practical experience that comes along. The building blocks of this Major Project "**BLOOD BANK MANAGEMENT SYSTEM**" was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a computer engineer. The project from a personal point of view also helped us in understanding the following aspects of project development:

➢ The planning that goes into implementing a project.

➢ The importance of proper planning and an organized methodology.

➢ The key element of team spirit and co-ordination in a successful project.

The project also provided us the opportunity of interacting with our teachers and to gain from their best experience.

FUTURE ENHANCEMENT:

BLOOD BANK MANAGEMENT SYSTEM is a software application to built such a way that it should suits for all type of blood banks in future.

One important future scope is availability of location based blood bank details and extraction of location based donor's detail, which is very helpful to the acceptant people. All the time the network facilities cannot be use. This time donor request does not reach in proper time, this can be avoid through adding some message sending procedure this will help to find proper blood donor in time. This will provide availability of blood in time.

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