**DVS College of Arts and Science,**

**Shimoga – 577201**

**A Project Synopsis On**

**“Digital Blood Bank”**

**Bachelor of Computer Applications**

**Project Associates:**

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**Project Guide:**

**Department of Computer Science**

**DVS College of Arts and Science,**

**Shimoga – 577201**

**Project Details:**

**Title:** Digital Blood Bank.

**Aim:** The purpose of this study is to develop a blood bank management information system to assist in the management of blood donor records and blood availability and ease the distribution of blood to acceptor demands. Using this application user can easily get the blood donor’s information and he/she can also check the availability of their required blood group. Here user can view/download their certificate as well.

**Project Description:**

**Introduction:** The project “Digital Blood Bank” is known to be a pilot project that is designed for the blood bank to gather blood from various sources and distribute it to the needy people who have high requirements for it. The software is designed to handle the daily transaction of the blood bank and search the details when required. It is also helps to register the details of blood accepted as well as blood donor’s reports. The software application is designed in such a manner that it can suite the needs of all the blood bank requirements in the course of future. And also blood acceptor can view the blood availability and user can view their certificate which contains the details about number of time they donated.

**Objectives:** The main objective of this project is to build a website which will help the blood accepters to view/check the availability of the required blood group in a blood bank or in other case if there is no availability of the blood then acceptor can easily get the information about the blood donors. The blood donors can view his certificate which contains the details about number of times they donated. The blood bank can easily get the details about the blood stock and blood donor information.

**Modules:** This Digital blood bank project has the major modules below:

* **Admin**: Admin should be able to create new users and store their personal and health information in database and also he/she can update the availability of the blood stock.
* **User**: Here user can easily get the information about the required blood stock and donor details. They can easily view/download the blood donation certificate at any time if they’ve donated blood.
* **Report**: Easily get the availability stock of all type of blood groups as well as blood donors.

**Literature survey:** In the existing system whole process is done manually. Receiver cannot easily get the details about the stock or donors unless they go to blood banks. Blood banks have to prepare the certificate for donors manually.

**Proposed System:** The proposed system (Digital Blood Bank) is designed to help the Blood Bank administrator to meet the demand of Blood by sending and/or serving the request for Blood as and when required. The proposed system gives the procedural approach of how to bridge the gap between Acceptor, Donor, and Blood Banks. This application will provide a common ground for all three parties (i.e. acceptor, donor, and blood banks) and will ensure the fulfilment of demand for blood requested by acceptor and/or Blood Bank. User can easily get the certificate. User can easily get the details about other blood donors.

**Requirement Specification:**

Hardware Specification:

* Windows 7 or higher.
* Hard Disk with at least 2GB of free space.
* At least 1GB of Ram.

Software Specification:

* My SQL server.
* Apache sever.
* Any browser.

**Data Flow Diagram / ER Diagram:**

Login to the Blood Bank Management System

Check User Level and Permission

Check Permission

Manage User, Donor Health Details and stock

Download certificate, check for blood availability.

Logout from the System

Logout from the System

Admin User (Acceptor/Donor)