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BLOOD BANK MANAGEMENT SYSTEM

A Report for the Evaluation 3 of Project 2

Submitted by

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ABSTRACT

The purpose of Blood Bank Management System is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Blood Bank Management System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

Introduction

The "Blood Bank Management System" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Blood Bank Management System , as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization, whether big or small, has challenges to overcome and managing the information of Blood Group, Blood Bank, Blood Stock, Record, Blood Cell. Every Blood Bank Management System has different Blood Bank needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for

those busy executive who are always on the go, our systems come with remote access features, which will allow you to manage your workforce anytime, at all times. These systems will ultimately allow you to better manage resources.

Existing System:

The old manual system was suffering from a series of drawbacks. Since whole of the system was to be maintained with hands the process of keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be in a systematic order. there used to be lots of difficulties in associating any particular transaction with a particular context.

If any information was to be found it was required to go through the different registers, documents there would never exist anything like report generation. There would always be unnecessary consumption of time while entering records and retrieving records. One more problem was that it was very difficult to find errors while entering the records. Once the records were entered it was very difficult to update these records. The reason behind it is that there is lot of information to be maintained and have to be kept in mind while running the business .For this reason we have provided features Present system is partially automated (computerized), actually existing system is quite laborious as one has to enter same information at three different places.

Proposed System:

The main objective of the Project on Blood Bank Management System is to manage the details of Blood Bank, Blood Group, Donor, Blood Stock, Blood Cell. It manages all the information about Blood Bank, Record, Blood Cell, Blood Bank. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Blood Bank, Blood Group, Record, Donor. It tracks all the details about the Donor, Blood Stock, Blood Cell.

<u>Functionalities provided by Blood Bank Management System are as follows:</u>

- Provides the searching facilities based on various factors. Such as Blood Bank, Donor, Blood Stock, Blood Cell

- Blood Bank Management System also manage the Record details online for
- Blood Stock details, Blood Cell details, Blood Bank.
    - It tracks all the information of Blood Group, Record, Blood Stock etc
    - Manage the information of Blood Group

- Shows the information and description of the Blood Bank, Donor
- To increase efficiency of managing the Blood Bank, Blood Group
- It deals with monitoring the information and transactions of Blood Stock.
- Manage the information of Blood Bank
- Editing, adding and updating of Records is improved which results in proper resource management of Blood Bank data.
- Manage the information of Blood Stock Integration of all records of Blood Cell.

SYSTEM IMPLEMENTATION:

System implementation is considered to be the most crucial stage in achieving a successful system because if it is not properly planned and controlled, it can because chaos. Implementation is the stage when theoretical design has been converted into a working system. It involves the careful planning, investigation of the current system and its constraints on implementation, design of methods to achieve changeover, training of staffs in the changeover procedures and evaluation of changeover methods.

System implementation discusses about the implementation plan, system testing, how to take backups. it also involves user training for minimising resistance to change and giving the system a chance to prove its worth. A software application in general is implemented after navigating the complete life cycle method of a project. various life cycle processes like requirement analysis, design phase, testing and verification, finally followed by the implementation phase results in a successful project management.

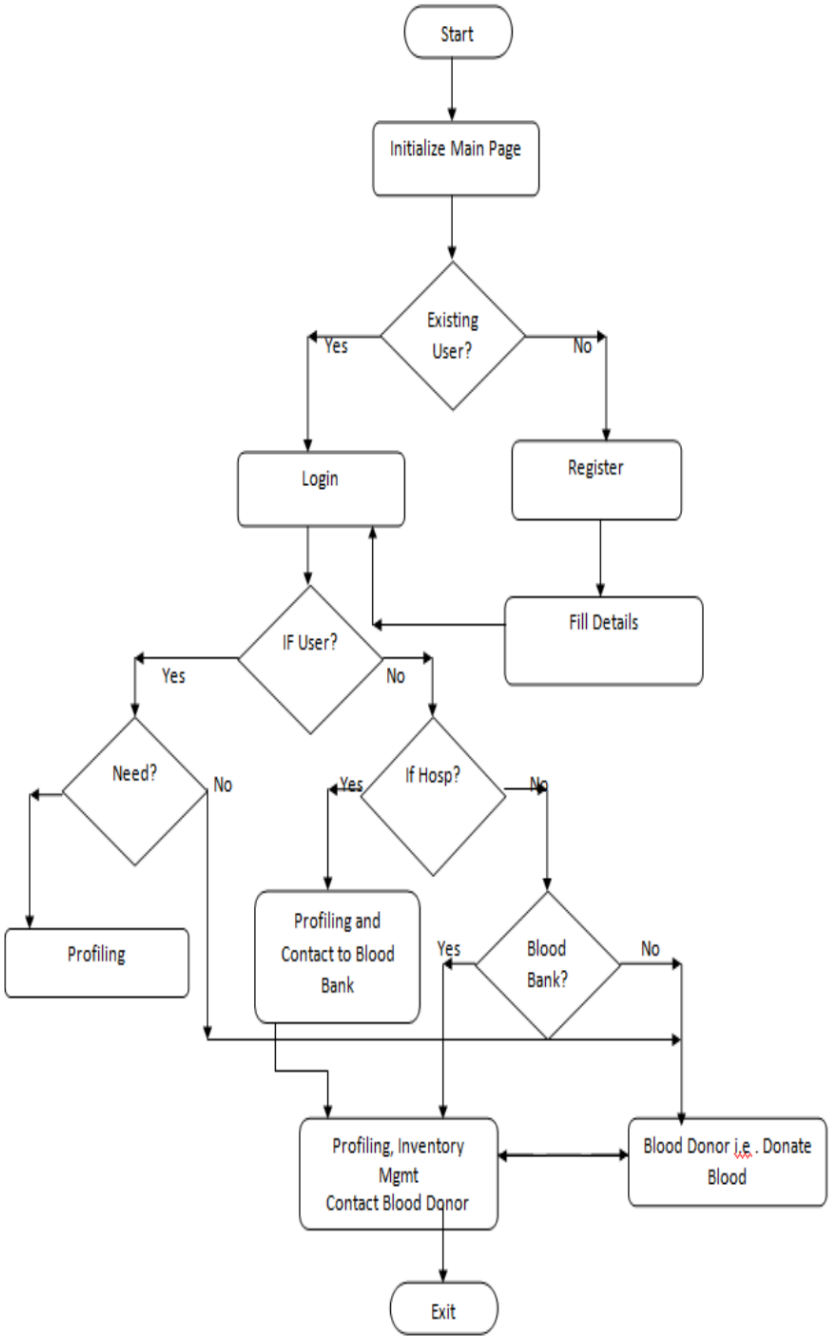
As the software is to be implemented in a high standard industrial sector, various factors such as application environment, user management, security, reliability and finally performance are taken as key factors throughout the design

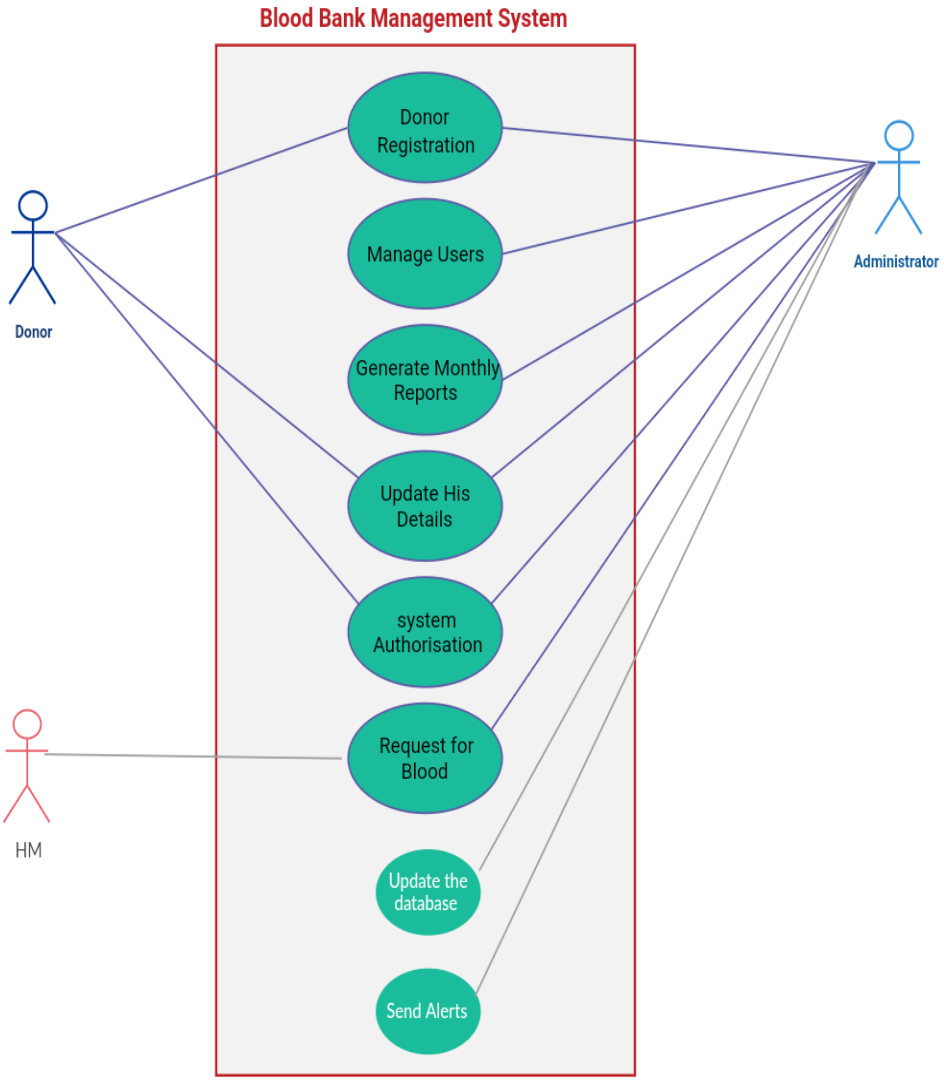
phase.

These factors are analysed step by step and the positive and negative outcomes are noted before the final implementation. Security and authentication is maintained in both user level as well as the management level. The data is stored in the server with SMG Server, which is highly secured in a web server the user level security is managed with the help of password options and sessions, which finally ensures that all the transactions are made securely.

The application's validations are taken into account of the entry levels available in various modules. possible restrictions like number formatting, date formatting and confirmations for both save and update options ensure the correct data to be fed into the database.

Architecture Diagrams:




Blood Bank Management System
Donor Registration
Manage Users
Generate Monthly Reports
Update His Details
system Authorisation
Request for Blood
Update the database
Send Alerts
Donor
Administrator
HM

CONCLUSION:

Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirements of the school. The objective of software planning is to provide a frame work that enables the manger to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses.

At the end it is concluded that we have made effort on following points…

- A description of the background and context of the project and its relation to work already done in the area.

- Made statement of the aims and objectives of the project.

- The description of Purpose, Scope, and applicability.

- We define the problem on which we are working in the project.

- We describe the requirement Specifications of the system and the actions that can be done on these things.

- We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system.

- We included features and operations in detail, including screen layouts.

- We designed user interface and security issues related to system.

- Finally the system is implemented and tested according to test cases.

Further Scope of the Project:

The system is highly Eligible, so that the maintenance and further amendments based on the changing environment and requirements can be made easily. Any changes that may lead to the system failures are prevented with security
measures.

It can be further developed to include more operational and analysis, as

changes are required in the system to adapt to the external development. Further enhancement can be made to the system at any later point. coding procedures can be modified according to the needs of the user. The future scope of our project is that it can be implemented over the Internet to administrator and monitor systems connected to propose more to introduce authentication and security for controlling and monitoring over the Internet. Further additions can be made to this project. Time constraint prohibited me from pursuing them.

A viewer is provided on the cellular phone that enables the user to see and manipulate the desktop of various remote systems such as Windows, Macintosh, and IBN. The system to be accessed must be running the client program and it must be attached to a network.
This project is designed with the future in mind. Due care has been taken to assimilate the needs for future development. The software is constructed along the
lines suggested by the users.

A new tool creation is under process which will have the drag and drop options which help the users generate reports by themselves and it is considered to be a major enhancement for the application.

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