Title:- **BLOOD REPOSITORY MANAGEMENT SYSTEM**

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BLOOD REPOSITORY MANAGEMENT SYSTEM

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ABSTRACT:

To built a solution to the ever growing requirements of blood due to accidents and various health problem the system is developed for accessing the information about various blood banks, and hospitals and their blood stock. The solution should give complete information about blood donor ,and activities of hospitals and blood banks regarding the blood donation. Donors provides with registration process to maintain their information for future donations as well as to make their information available to search. In our project we need to collect the information like name, roll numbers ,bloodgroup, address ,contact number. we are going to create one page in that page having home, search, donor registration, login, contact us, about us. we need to save the information about donors and their details. if any emergency occurs their can contact us for blood donors.we are acting as a mediators between donor and receiver. Receiver can contacts us through our contact numbers(or)websites.

1. INTRODUCTION

Python is a general purpose, dynamic, high level and interpreted programming language. It supports Object Oriented programming approach to develop applications. It is simple and easy to learn and provides lots of high-level datastructures. Python is easy to learn yet powerful and versatile scripting language which makes it attractive for Application Development.

Python's syntax and dynamic typing with its interpreted nature, makes it an ideal language for scripting and rapid applicationdevelopment. Python supports multiple programming pattern, including object oriented, imperative and functional or procedural programmingstyles. Python is not intended to work on special area such as web programming. That is why it is known as multipurpose because it can be used with web, enterprise, 3D CADetc. We don't need to use data types to declare variable because it is dynamically typed so we can write a=10 to assign an integer value in an integervariable. Python makes

the development and debugging fast because there is no compilation step included in python development and edit-test-debug cycle is veryfast.

Python is a general purpose and high level programming language. We can use Python for developing desktop GUI application, websites and web applications. Also, python as a high level programming language, allows you to focus on core functionality of the application by taking care of common programming tasks.
Python allows programming in object-oriented and procedural paradigms. Python programs generally are smaller than other programming language like Java. Programmers have to type relatively less and indentation requirement of the language makes them readable all the time.

Python is an object-oriented programming language like Java. Python is called an interpreted language. Python uses code modules that are interchangeable instead of a single long list of instructions that was

standard for functional programming languages.

The standard implementation of python is called "cpython". It is the default and widely used implementation of Python. Python doesn't convert its code into machine code, something that hardware can understand. It actually converts it into something called byte code. So within python, compilation happens, but it's just not into a machine language.

2. RELATED WORK

Existing System:-

There are a quite good number of software packages that exist for BLOOD BANK Inventory control. But, when I visited blood bank of Karnataka cancer hospital in navanagar. I found that existing system is limited only to those particular bloodbank.At the present there is no software to keep any records in blood bank. It becomes difficult to provide any record immediately at times ofemergency. Required more human efforts in maintaining the branch related information . Manually to keep the accounts is also tedious & risky job & to maintain those accounts in ledgers for a long period is also very difficult.Difficult to manage and maintain the files.Chance of damage of files, if the data is stored in the files for duration of time. Privacy is difficult. Time consuming is retrieving, storing and updating the data. It is difficult to keep track the record about the donor &receiver he has donated or received the blood at the last time.

Proposed system:-

The proposed Blood Repository management system helps the people who are in need of a blood by giving them all details of blood group availability or regarding the donors with the same blood group.

The people in need of blood can search for the donors by giving their blood group and city name.

It saves time as he can search donors online without going anywhere. Using this system user can get blood in time and can save his relative or friend life. Our website work 24x7 so user can get information of blood donor any time. Blood donor can also get registered and save life of other. The main benefit of this system is the information of available blood group.When blood is need in the operation then people have very less time to get the blood available so if he get the information like who can give him blood in time in his city is life saving. And here our system work, whenever a person need blood he get information of the person who has the same blood group he needs.

3. METHODOLOGY:

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.The proposed system is developed using Active Server Page, VB Script and HTML as front-end tool and Oracle 8 as the back end. The proposed systemneeds 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.

The proposed system is operationally feasible because of the following reasons. The customer is benefited more as most of

his time is saved. The customer is serviced at his place of work.The cost of the proposed system is almost negligible when compared to the benefits gained.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.

UML stands for Unified Modeling Language. UML is a standardized general-purpose modeling language in the field of object-oriented software engineering. The standard is managed, and was created by, the Object Management Group. The goal is for UML to become a common language for creating models of object oriented computer software. In its current form UML is comprised of two major components: a Meta-model and a notation. In the future, some form of method or process may also be added to; or associated with, UML. The Unified Modeling Language is a standard language for specifying, Visualization, Constructing and documenting the artifacts of software system, as well as for business modeling and other non- software systems.
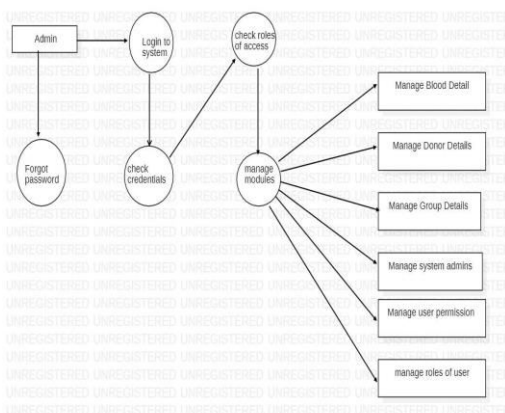

Figure1:Architecture

The UML represents a collection of best engineering practices that have proven successful in the modeling of large and complex systems. The UML is a very important part of developing objects oriented software and the software development process. The UML uses mostly graphical notations to express the design of software projects.A use case diagram in the Unified Modeling Language (UML) is a type of behavioral diagram defined by and created from a Use-caseanalysis. Its purpose is to present a graphical overview of the functionality provided by a system in terms of actors, their goals (represented as use cases), and any dependencies between those use cases. The main purpose of a use case diagram is to show what system functions are performed for which actor. Roles of the actors in the system can bedepicted.

Homepage:For the homepage, you will be able to all the basic access in the wholesystem. Such as home, search, donor registration, login, contact us and about us.
Search: For the search, you will be able to search the blood type you want and the address of a donor person.
Donor Registration: For the donor registration, you will fill the forms. Such as your complete name, gender, date of birth, blood type, phone number, email address, home address and etc.
Contact Us: For the contact us, you will be able to see their address, phone number and email address.
About Us: For the about us, you will be able see the goals and objectives of blood repository management system.

The purpose of testing is to discover errors. Testing is theprocess of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, sub assemblies, assemblies and/or a finished product It is the process of exercising software with the intent of ensuring that the Software system meets

its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specifictestingrequirement.
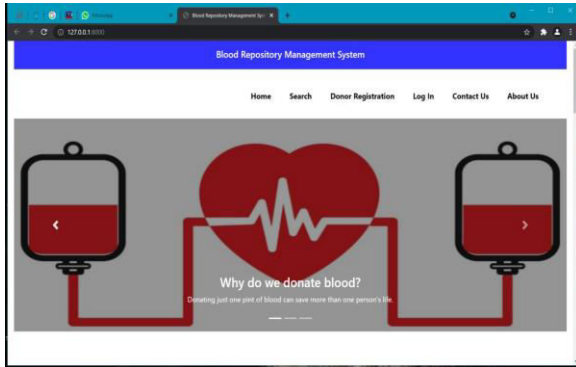
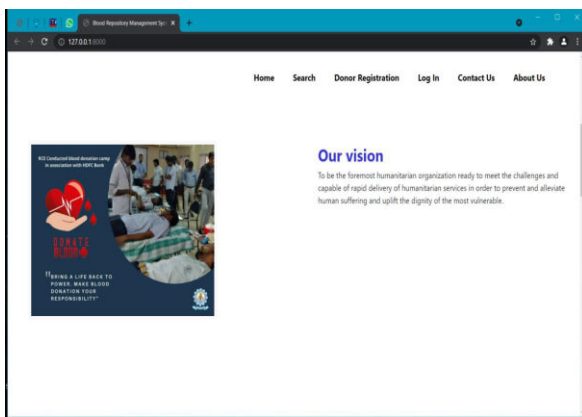## 4. STUDY OF RESULTS:

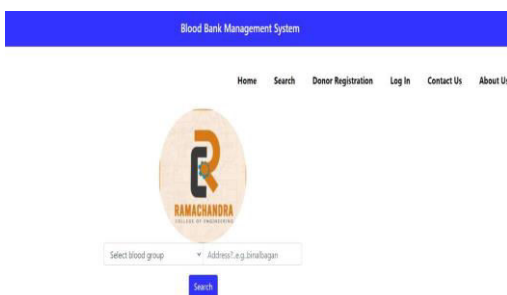**Figure 2:Home Page**

Figure 2:Our Vision

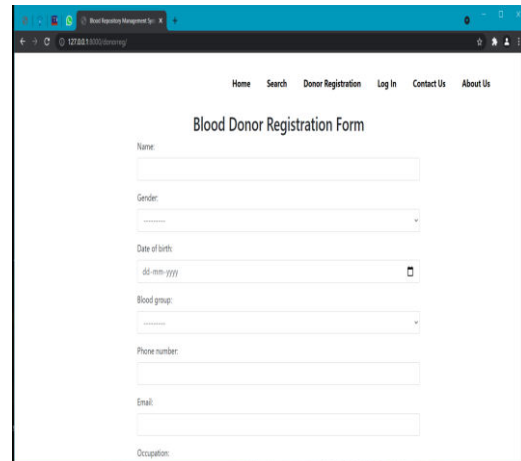**Figure 3:Search Page**

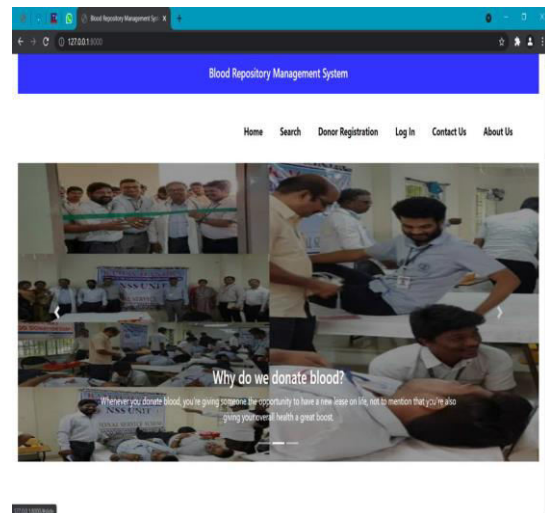**Figure 3:Donor Registration page**

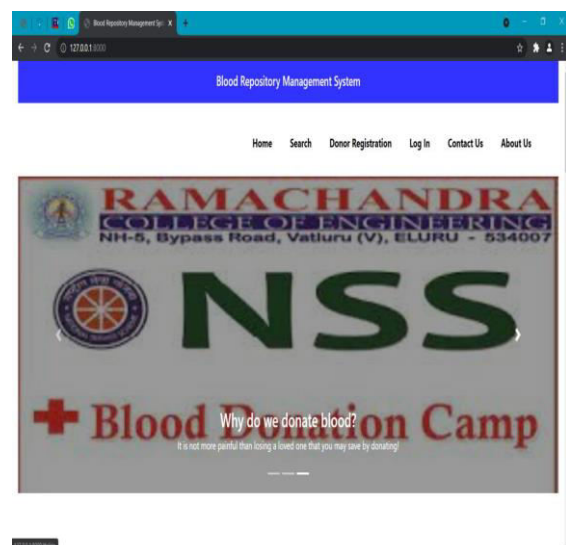**Figure 4:Blood Donation**

Figure 4: 13Nss

5.CONCLUSION :

This project has given me an ample opportunity to design, code, testand implements an application. This has helped in putting into practice of various Software Engineering principles and Database Management concepts like maintaining integrity and consistency of data. Further, this has helped me to learn more about ORACLE 8, pycharm, HTML, Python, Django Database and Personal Web Server.

The other features, which the Blood bank services provide, can also be incorporated into this Blood Repository. The Encryption standards can also be used to make the transactions more secure. The Socket Secure Layer protocol can also used in implementing the system, which gives highest security in the Internet.

As there was a little number of contact person's information given, some people may face difficulty in getting blood fast. Soilike to gather more information regarding the contact persons in other cities as well as villages and will provide much more services for the people and help everyone with humanity.

6.REFERENCES :

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