CMA MINI PROJECT

E-Blood Donation and Management
Project Report

Introduction

A bank may be a place where a blood bag that's collected from blood donation events is stored in one place. The term "blood bank" refers to a division of a hospital laboratory where the storage of blood products occurs and where proper testing is performed to scale back the danger of transfusion-related events.

Pathology Department is one of the foremost important departments within the Rotary Blood Bank Panvel (RBBP). It processes blood which will be supplied to the patients in RBBP consistent with their needs. Before the blood is supplied to the patients, the blood will undergo several tests to make sure that the blood receiver isn't infected by serious diseases. a couple of units are operating during this department like the Blood House Unit, transfusion Unit, and Blood Distribution Unit.

Every month, RBBP will organize a blood donation event which is one of the ways they will increase the bloodstock. After the blood donation events, the blood bags that they obtained will undergo tests. All the blood received at the blood donation events must be

managed thoroughly and systematically to avoid patients who need the blood infected by any viruses or diseases.

E-blood Donation and Management (EDM) may be a web-based system that will assist the knowledge of blood bags during its handling within the bank. With this technique, the user of this technique can key within the results of a biopsy that has been conducted to every of the blood bags received by the bank. The results of the test will indicate whether the blood bag is often delivered to the patient or not.

Technologies Used

HTML

The Hypertext Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript. Web browsers receive HTML documents from a web server or local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation of presentation and content, including layout, colours, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

JavaScript

JavaScript is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled and multi-paradigm. It has dynamic typing, prototype-based object-orientation and first-class functions. Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web. Over 97% of websites use their client-side for web page behaviour, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on the user's device. As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

PHP

PHP is a general-purpose scripting language geared towards web development. It was created by Danish-Canadian programmer Rasmus Lerdorf in 1994. The PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor. PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response.

MySQL (Database)

MySQL is free and open-source software under the terms of the GNU General Public License and is also available under a variety of proprietary licenses. A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access

to the database. In addition to relational databases and SQL, an RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups.

Google Cloud Platform

Google Cloud Platform (GCP), offered by Google, is a suite of cloud computing services that runs on the same infrastructure that Google uses internally for its end-user products, such as Google Search, Gmail, Google Drive, and YouTube. Alongside a set of management tools, it provides a series of modular cloud services including computing, data storage, data analytics and machine learning. Registration requires credit card or bank account details. Google Cloud Platform provides infrastructure as a service, platform as a service, and serverless computing environments.

Lamp Stack (XAMPP)

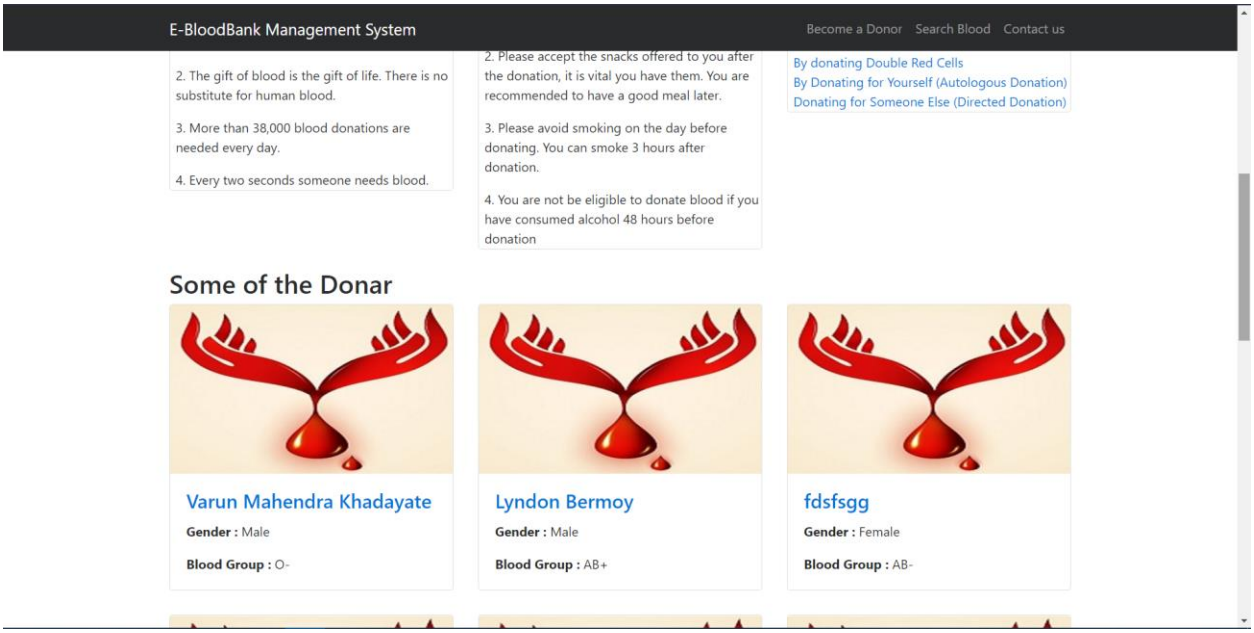
LAMP (Linux, Apache, MySQL, PHP/Perl/Python) is an acronym denoting one of the most common solution stacks for many of the web's most popular applications. However, LAMP now refers to a generic software stack model and its components are largely interchangeable.

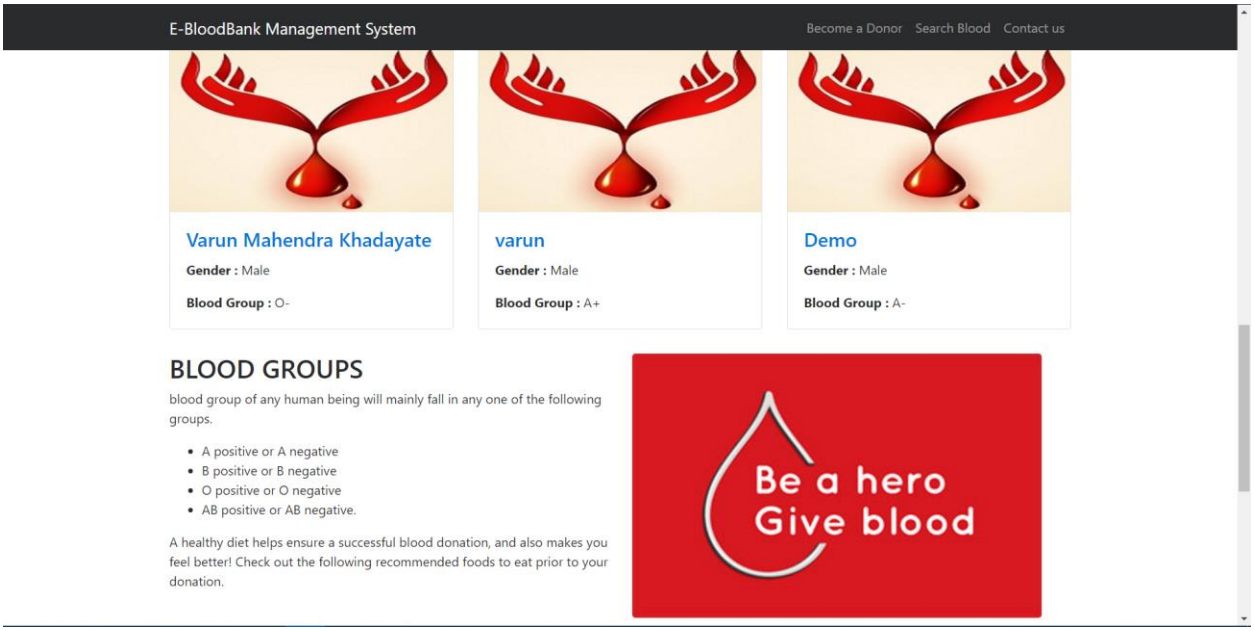
Each letter in the acronym stands for one of its four open-source building blocks:

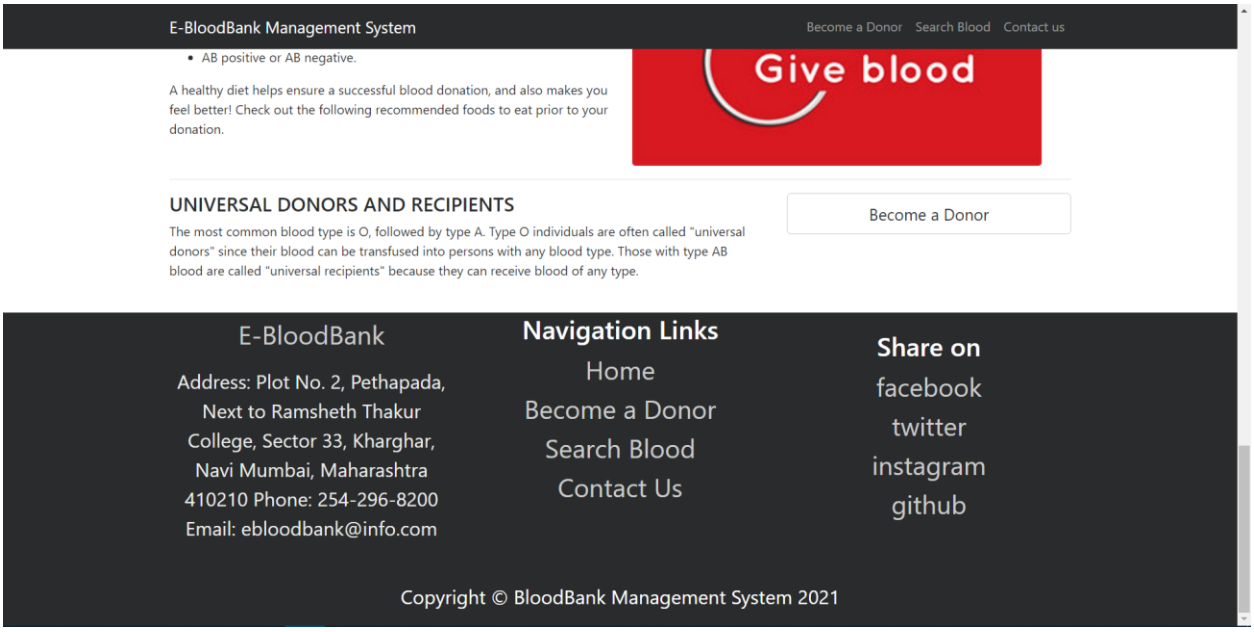
- Linux for the operating system
- Apache HTTP Server
- MySQL for the relational database management system
- PHP, Perl, or Python programming language

Project Preview

Home Page:




E-BloodBank Management System
Become a Donor
Search Blood
Contact us
Varun Mahendra Khadayate
Gender : Male
Blood Group : O-
varun
Gender : Male
Blood Group : A+
Demo
Gender : Male
Blood Group : A-
BLOOD GROUPS
blood group of any human being will mainly fall in any one of the following groups.
A positive or A negative
B positive or B negative
O positive or O negative
AB positive or AB negative.
A healthy diet helps ensure a successful blood donation, and also makes you feel better! Check out the following recommended foods to eat prior to your donation.
Be a hero
Give blood


E-BloodBank Management System
Become a Donor
Search Blood
Contact us
AB positive or AB negative.
A healthy diet helps ensure a successful blood donation, and also makes you feel better! Check out the following recommended foods to eat prior to your donation.
Give blood
UNIVERSAL DONORS AND RECIPIENTS
The most common blood type is O, followed by type A. Type O individuals are often called "universal donors" since their blood can be transfused into persons with any blood type. Those with type AB blood are called "universal recipients" because they can receive blood of any type.
Become a Donor
E-BloodBank
Address: Plot No. 2, Pethapada, Next to Ramsheth Thakur College, Sector 33, Kharghar, Navi Mumbai, Maharashtra 410210 Phone: 254-296-8200 Email: ebloodbank@info.com
Navigation Links
Home
Become a Donor
Search Blood
Contact Us
Share on
facebook
twitter
instagram
github
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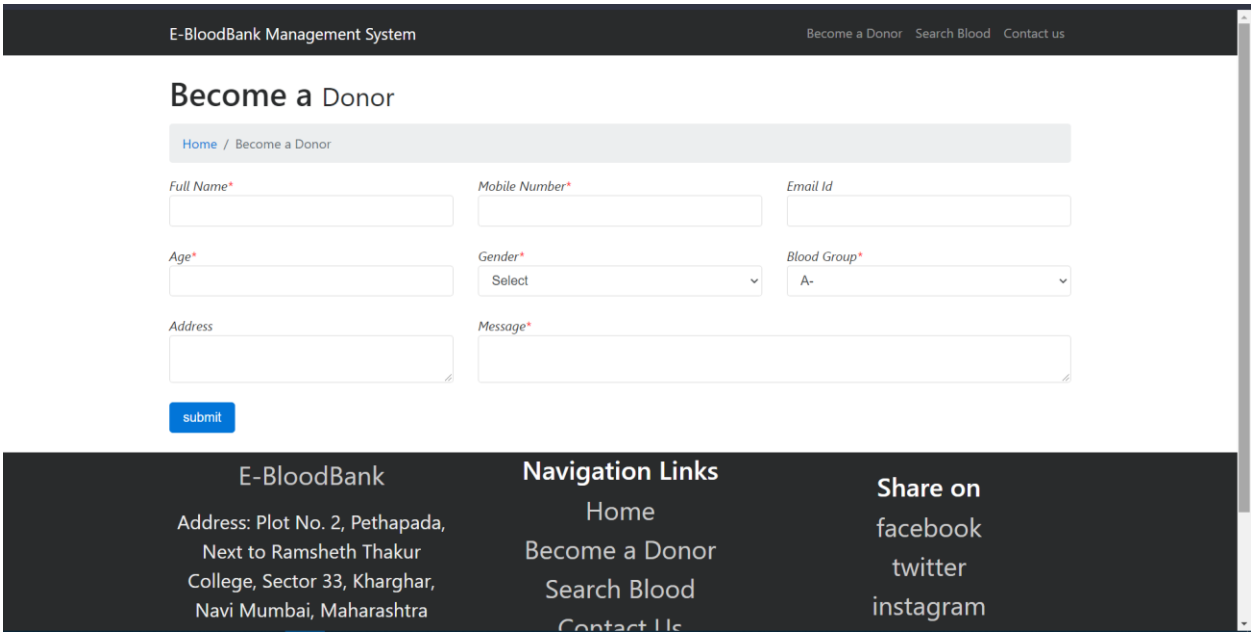
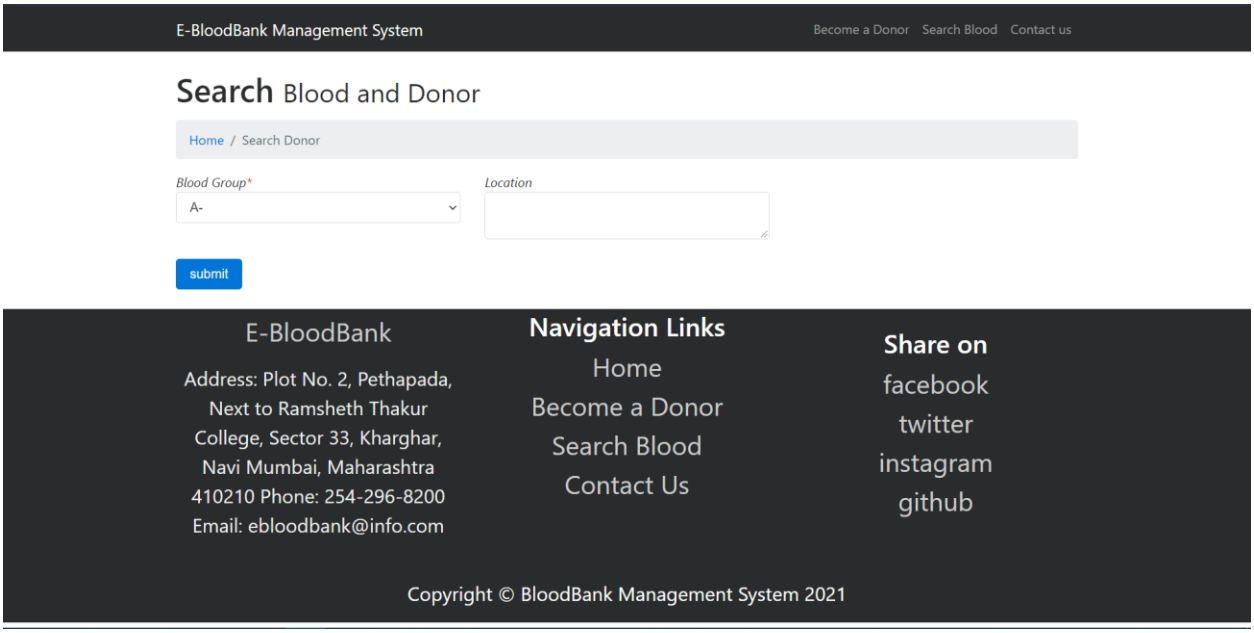
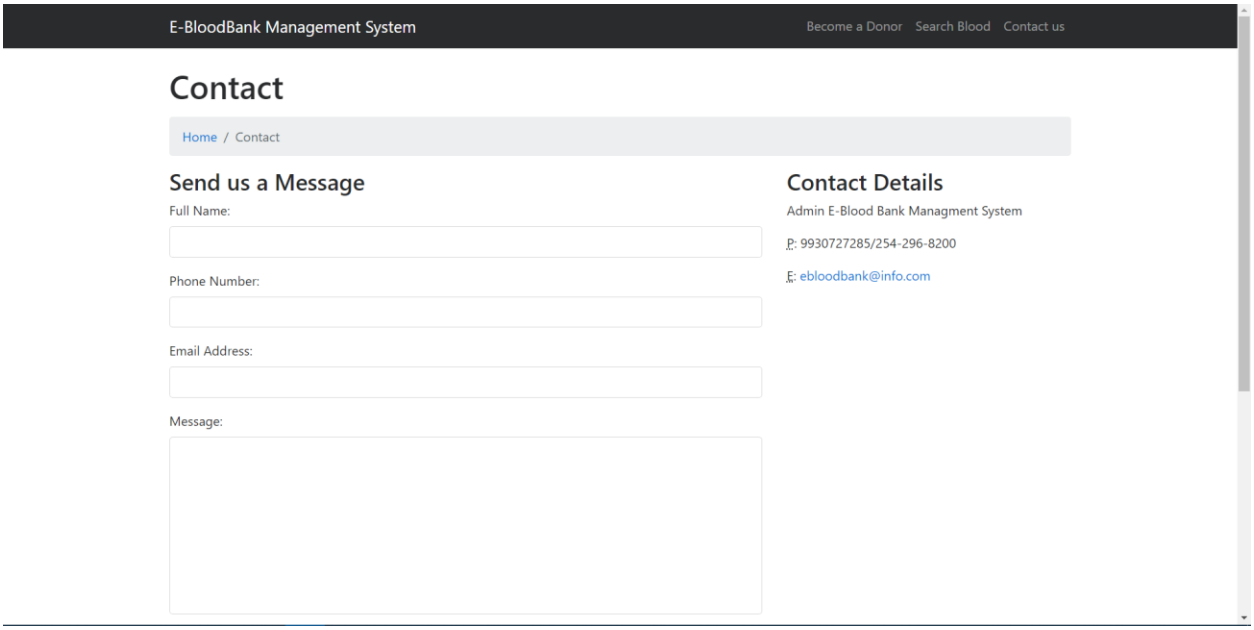
Become a Donor Page:



Search for Blood/Donor Page:



Contact Admin page:



Conclusion

The EDM has been developed according to the user requirements to make sure that the management of the bloodstock becomes effective and systematic. The functional services provided in the current version are Blood Inventory Analysis, profile management (both Donor and Hospital), Blood Donation camps notifications and SMS services for verification and security purposes. In the next phase of the EDM, we plan to have an application compatible both with Android and iOS operating systems, along with extra features like providing edit and account creation access to hospitals and various NGOs for their blood donation campaigns and also options to donate plasma, platelets along with blood and many more which we plan on designing and developing along with changing time.