Database Design

Blood Bank

|  |  |  |  |
| --- | --- | --- | --- |
| ID | NUMERIC | PK | NOT NULL |
| Blood Bank name | VARCHAR(20) |  | NOT NULL |
| Blood Bank address | VARCHAR(50) |  | NOT NULL |

User

|  |  |  |  |
| --- | --- | --- | --- |
| User ID | INT(11) | PK | NOT NULL |
| User Name | VARCHAR(50) |  | NOT NULL |
| User Email | VARCHAR(50) |  | NOT NULL |
| User password | VARCHAR(50) |  | NOT NULL |
| User address | VARCHAR(100) |  | NOT NULL |
| User Gender | BIGINT(20) |  | NOT NULL |
| User Phone no | VARCHAR(50) |  | NOT NULL |
| User Blood type ID | INT(11) | PK | NOT NULL |

Eligibility

|  |  |  |  |
| --- | --- | --- | --- |
| ID | INT(11) | PK | NOT NULL |
| description | VARCHAR(200) |  | NOT NULL |
| gender | BIGINT(11) |  | NOT NULL |
| Is right | BIGINT(11) |  | NOT NULL |

Blood Type

|  |  |  |  |
| --- | --- | --- | --- |
| Blood Type ID | INT(2) | PK | NOT NULL |
| Blood Type Name | CHAR(1) |  | NOT NULL |

Blood Bank

|  |  |  |  |
| --- | --- | --- | --- |
| Blood Bank ID | INT(11) | PK | NOT NULL |
| Blood Bank Name | VARCHAR(50) |  | NOT NULL |
| Address | VARCHAR(50) |  | NOT NULL |

Available Blood

|  |  |  |  |
| --- | --- | --- | --- |
| ID | INT(11) | PK | NOT NULL |
| Blood Bank ID | INT(11) |  | NOT NULL |
| Blood Type ID | INT(11) |  | NOT NULL |
| Available count | INT(11) |  | NOT NULL |

Appointment

|  |  |  |  |
| --- | --- | --- | --- |
| ID | INT(11) | PK | NOT NULL |
| User ID | INT(11) |  | NOT NULL |
| Blood Bank ID | INT(11) |  | NOT NULL |
| Appointment Date | DateTime() |  | NOT NULL |
| Status | INT(11) |  | NOT NULL |

Admin

|  |  |  |  |
| --- | --- | --- | --- |
| ID | INT(11) | PK | NOT NULL |
| Name | VARCHAR(50) |  | NOT NULL |
| Email | VARCHAR(50) |  | NOT NULL |
| Password | VARCHAR(50) |  | NOT NULL |

Introduction

The online blood donation system is that the customer can book the donation anywhere. Nowadays, our country is developing country and technologies are really developed. Anyone who wants to donate blood or who needs to help to get blood can book anywhere via mobiles, laptop, etc. Online services should be available with the people to the targeted project is to develop for the customers benefits.

**Project Overview**

Internet based online blood donation system for blood organization which can be accessed through out the net and can be accessed by anyone who has online connection. It is easy to use access quickly .GUI is easily to use and anyone can understand to use. In this webpage the registration parts have included email and phone confirmation for the blood donor and user can view which blood available in which blood bank.

**Innovation**

There can be a service which is called to ring to the person who need help to get blood and ask for blood type, check the blood type is available or not in database and confirm to receiver. That service can more helpful for the people who need blood urgently .Another service is more reliable for donor who confirms the registration via both email and phone service. The donor can contact easily and donate blood.

|  |  |
| --- | --- |
| Request ID | Description |
| HP – 1 | Firstly open webpage, the user can see clearly on the menu bar are Home, About us and Contact us.   * Home is for the use to quick access to come back webpage, home page. * Contact us is for the user to contact with organization. * About us is for the organization which start from and still for now and how much helpful for people. |
| HP – 2 | After this, user can see a bar below banner picture.  In there, it have four menu, which is ELIGIBILITY QUIZ, FIND A DONOR CENTER, MAKE AN APPOINTMENT, FAQS |
| HP – 2 | * ELIGIBILITY is to check “is the donor is eligibility?” * When user clicks ELIGIBILITY, three bars can see. * They are Back, Register and Start over. * Back menu is to go back to the back page. * When user clicks register button, user can register. There will be Name textbox, Date of Birth textbox, Email textbox and also phone number textbox. * If user finishes register, user can use start over button to answer eligibility. * In there, user can see lots of question about to donate blood. Users have to fill it correctly. After finished answering that eligibility, user should click next button and user can be appointed from it. |
| HP – 2 | * Beside of ELIGIBILITY, we can see “find A DONOR CENTER”. In there, we can see location for donate blood. * After find A DONOR CENTER, we can see make an appointment menu bar. * When we click it, we can see some messages about what to do first and we can see a Blood donation appointment form. * If you want to be appointment you have to check that you are eligible or not. * And for existing user, we have a question about he or she had been donated in the past 4 months or not. * It will have a two of yes – no radio button and we should check it. |
| HP – 2 | * After this we should fill detail * There will be a Name textbox * Gender radio button * Contact Number textbox * Email, Address, State, Date of Birth and also what’s your blood type is. * There will be a select box. * And then, we will show short terms & conditions. * After filled all the boxes, you have to click Next button. * And then the ELIGIBILITY Box will appear and we have to fill it. * I will create a link for it.   If you are correct of all collection you will have an appointment |
| HP – 2 | * Another menu bar is FAQS => FAQS means FREQUENTLY ASKED QUESTIONS. * In there, there will be six bars, General, Eligibility, Donation Process, Where to donate, Donor Questionnaire & interview, about Blood. * Each bar has their respective information. |
| HP – 3 | * On the side bar, there will be four titles, they are become a donor, all about blood, other pages and term and policy button. * If you click become a donor, you will see all information about donor and you can register if you want to donate within 12 hours. |
| HP – 3 | * Other pages are for linking to other page for more reliable information. * At footer, there will be some links about our story and we are linking it with to other sides and also Facebook, Twitter, and etc. * And we can also know about our policy by clicking term & policy button. |

**Search For Blood Donor**

|  |  |
| --- | --- |
| Request ID | Description |
| SBD-1 | * User can search blood donor by blood group(Blood type), State, Distinction and City |
| SBD-2 | * When user clicks the submit button, the list of donor will show up. |
| SBD-3 | * When user clicks the reset button, the select items from the dropdown box will clear. |

**Available**

|  |  |
| --- | --- |
| AB-1 | * User can easily see the available blood type by its amount and its unit. |

Requirement Specification

**Hardware Requirement**

* Processor : 1.2 GHz or more
* RAM : 256 MB
* Hard Disk : 20 GB

**Software Requirement**

* Operating System : Windows XP, Windows Vista, Windows 7, Linux, Mac and other OS.
* Web Browser : Internet Explorer, Mozilla Firefox, Google Chrome, Opera, Maxton and etc.
* Programming Languages: PHP, JavaScript, CSS, and HTML.

**IMPLEMENTATION**

Designing a medical web application that collects information of volunteer blood donors and alert the donor about requirement of blood during emergency

* A front end user interface webpage design
* Creating database of volunteers’ blood donor with location, blood group , group , phone number and attributes.
* Syncing the application data with Google maps to locate the various places.
* Finding out the volunteers nearby.
* Shortcuts for Facebook, Twitter and Gmail in the homepage.

**How I Do**

This section provides you with information and online services to avail various citizen services being provided through this website. The list, however, is not exhaustive as we are committed to adding more other online services into this website, keep visiting the section for new updates!

* Check availability of blood stocks
* Online registration of Blood donor
* Check the status of issued blood

**Blood Donation Process**

Donation blood is safe process .Some information is used only once for each donor and discarded.

Blood donation is simple four steps process: registration, medical, history and mini physical, donation and refreshments.

Every blood donor is given a mini-physical, checking the donor’s temperature, blood pressure, pulse and hemoglobin to ensure it is safe for the donor to give blood.

The actual blood donation typically takes less than 10-13 minutes. The entire process, from the time you arrive to the time you leave, takes about an hour and 15 minutes.

Diagrams for Blood Donation System

**User Interface Design**







