Blood Bank Management System

PROJECT REPORT

Group - 8

IDBMS

PROJECT REPORT

Lab – CSE2

Batch - A2

Group – 8

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ACKNOWLEDGEMENT

We would like to express our special thanks of gratitude to our DBMS instructors who gave us the golden opportunity to do this wonderful project on the topic, BLOOD BANK DATABASE MANAGEMENT SYSTEM, which helped us in doing a lot of research and we came to know about so many new things and we are really thankful to them. Secondly, we would also like to thank our parents and friends who helped us a lot in finalizing this project within the limited time frame.

ABSTRACT

Our project is blood bank management system. It will help the medical center to collect blood from the donor and store blood in blood bank. For doing this activity we have used MY SQL, PHP, JAVA SCRIPT, HTML, CSS in windows Operating System. We think that it will be too much attractive software for university medical center. This project explores a new dimension to make it more interesting and challenging.

INTRODUCTION

Blood is a necessary element in the human body. Without blood, the human body is incomplete. Blood is a body fluid in humans and other animals that delivers necessary substances such as nutrients and oxygen to the cells and transports metabolic waste products away from those same cells. In vertebrates, it is composed of blood cells suspended in blood plasma. Blood Provides the Body's Cells with Oxygen and Removes Carbon Dioxide. Blood absorbs oxygen from air in the lungs. It transports the oxygen to cells throughout the body, and it removes waste carbon dioxide from the cells.

Blood banks collect, store, and provide blood. Typically, these banks collect blood from voluntary blood donors. The banks then sort blood by type, check blood to make sure it is free of disease and then store it for future use. The main mission of a blood bank is to provide life-saving blood to hospitals and other health care facilities.

List of Technologies Used

HTML Hypertext Markup Language

CSS: Cascading Style Sheets

JS: JavaScript

DB: Database

DBMS: Database Management System

PHP: Hypertext Preprocessor

XAMPP: Cross-platform, Apache, MySQL, PHP

MYSQL: My Structured Query Language

IMPLEMENTATION

Technology

This project is mainly based on MySQL database a web application to be developed in MySQL, PHP, HTML, CSS, JavaScript, Bootstrap, MYSQL and XAMPP.

HTML

Hypertext Markup Language (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 from 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.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items.

PHP

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. Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation.

XAMPP

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

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, colors, 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.

JAVA SCRIPT

JavaScript often abbreviated as JS, is a programming language that conforms to the ECMAScript specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, 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. JavaScript enables interactive web pages and is an essential part of web applications. The vast majority of websites use it for client-side page behavior, and all major web browsers have a dedicated JavaScript engine to execute it.

BOOTSTRAP

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

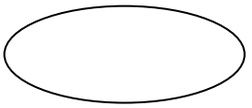
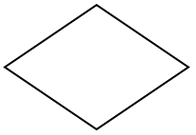
Bootstrap is the seventh-most-starred project on GitHub, with more than 142,000 stars, behind freeCodeCamp (almost 312,000 stars) and marginally behind Vue.js framework.

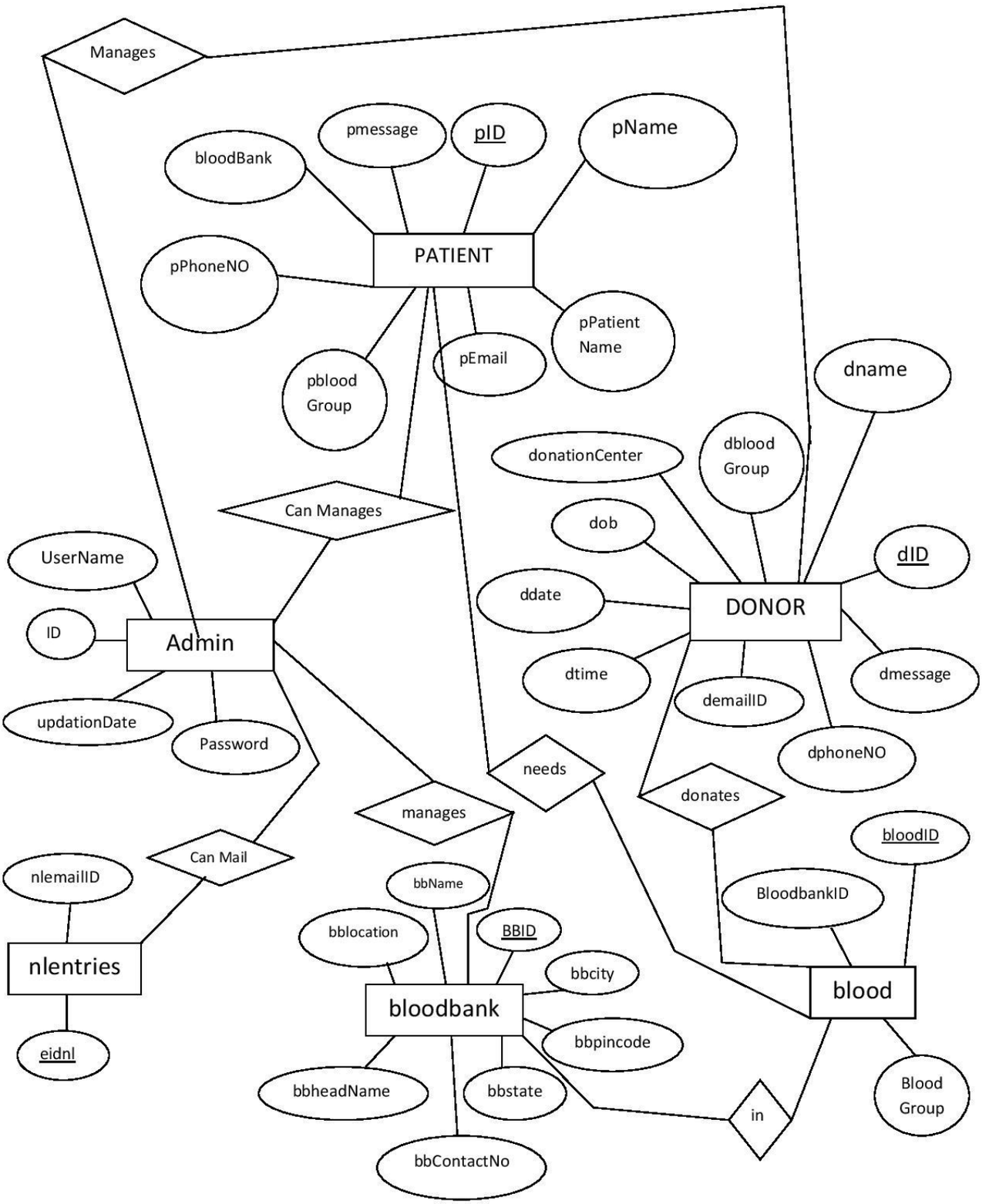
MYSQL

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of “My”, the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language. 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 in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups.

ER DIAGRAM

Entity Relationship Diagram, also known as ERD, ER Diagram or ER model, is a type of structural diagram for use in database design and understanding of the relationship between the entities. An ERD contains different symbols and connectors that visualize two important information: The major entities within the system scope, and the inter-relationships among these entities. And that's why it's called "Entity" "Relationship" diagram (ERD)!

SYMBOL	NAME	DESCRIPTION
	ENTITY	ENTITY is similar to table name.
	ATTRIBUTES	Attributes are the columns of the table.
	RELATIONSHIP	It’s the relationship between tables.


Manages
pmessage
pID
pName
bloodBank
PATIENT
pPhoneNO
pPatient Name
pEmail
pblood Group
dname
donationCenter
dblood Group
Can Manages
dob
dID
UserName
ddate
DONOR
ID
Admin
dtime
demailID
dmessage
updationDate
Password
dphoneNO
needs
donates
manages
bloodID
Can Mail
nlemailID
bbName
BloodbankID
bblocation
BBID
nlentries
bbcity
blood
bloodbank
bbpincode
eidnl
bbheadName
bbstate
Blood Group
in
bbContactNo

Tables

1. Admin

id	UserName	Password	updationDate
1	admin	pass123	2020-11-21 07:26:51

2. Blood

bloodID	BloodGroup	BGBloodbank
1	SVP Blood Bank	O+
2	Karma Blood Bank	A+
3	M.K.Gandhi Blood Ban	A+
4	M.K.Gandhi Blood Ban	AB+
5	M.K.Gandhi Blood Ban	A-
6	M.K.Gandhi Blood Ban	AB-
7	St.Teresa Blood Bank	AB+
8	Karma Blood Bank	O+
9	St.Teresa Blood Bank	O+
10	SVP Blood Bank	B+
11	SVP Blood Bank	A+
12	SVP Blood Bank	A-
13	SVP Blood Bank	AB+

3. Bloodbank

BBID	bbName	bblocation	bbcity	bbpincode	bbstate	bbContactNo	bbheadName
1	M.K.Gandhi Blood Bank	37, New Loha Mandi Rd, Harmada	Jaipur	302013	Rajasthan	992885944	Dr. Vishal Bhatia
2	SVP Blood Bank	J-2/37, Mahavir Marg, opp. Jai Club, Panch I	Jaipur	302001	Rajasthan	961050568	Dr. Rajendra Agarwal
3	Karma Blood Bank	B1, Ashadeep Enclave-A, Opposite Ashadee	Jaipur	302025	Rajasthan	978435896	Mr.Narendra Mittal
4	St.Teresa Blood Bank	11, 34, Girdhar Marg, Sector 11, Malviya Na	Jaipur	302017	Rajasthan	830662769	Dr.Sumit Goyal

4. Donation

dID	dname	demailID	dphoneNO	donationCenter	dob	dbloodGroup	ddate	dtime	dmessage
1	Rahul sharma	rahulsharma123@gmail.com	766849437	M.K.Gandhi Blood Bank		A+		08:00:00	Null
2	Pratik agarwal	pagarwal234@gmail.com	982759149	SVP Blood Bank		B+		09:00:00	Null
3	Ankit garg	Ankitg456@gmail.com	969409155	Karma Blood Bank		B-	2012-05-20	00:00:05	I may be bit late but will reach there
4	Ranu mittal	Ranum678@gmail.com	894928472	St.Teresa Blood Bank		O+	2012-11-20	11:00:00	Null
5	Shubham kumar	Shubhkum789@gmail.com	894922027	M.K.Gandhi Blood Bank		AB+		02:00:00	Null
6	Aman tripathi	Amantrip987@gmail.com	637609817	SVP Blood Bank		O-		10:00:00	Null
7	Anuj goyal	Anujg657@gmail.com	805818998	SVP Blood Bank		B-	2012-10-20	01:00:00	Null
8	Tanisha singhal	Tanishasinghal479@gmail.com	635015711	Karma Blood Bank		B+		09:00:00	Null
9	Maya gupta	Mayagupta409@gmail.com	772784056	SVP Blood Bank		AB+		04:00:00	Null
10	Pankaj soni	Pankajsoni876@gmail.com	855980921	SVP Blood Bank		AB-		06:00:00	Null
11	Dharmesh patel	Dharmeshpatel876@gmail.com	946877006	St.Teresa Blood Bank		A+		10:00:00	Null
12	Anisha goyal	Anishagoyal498@gmail.com	941455250	SVP Blood Bank		Unknown		07:00:00	My bloodgroup is B+ but I am not su
13	Darshan agarwal	Darshanagr390@gmail.com	941455250	Karma Blood Bank		O+	0001-10-21	03:00:00	Null
14	Ashish singhal	Anishasinghal580@gmail.com	935202625	St.Teresa Blood Bank		B+	2012-05-20	05:00:00	Null
15	Ajay tripathi	Ajaytripathi290@gmail.com	963686414	SVP Blood Bank		A-		06:00:00	Null
16	Akshay chaudhary	Akshaychaudhary6@gmail.com	844106885	M.K.Gandhi Blood Bank		B-	0001-05-21	11:00:00	Null
17	Mukul yadav	Mukyad467@gmail.com	978516994	M.K.Gandhi Blood Bank		O+		01:00:00	Null
18	Sneha gupta	Snehagupta698@gmail.com	935202624	St.Teresa Blood Bank		AB-		02:00:00	Null
19	Pallavi sharda	Pallavisharda908@gmail.com	979909337	SVP Blood Bank		A+		09:00:00	Null
20	Shashank parashar	Shashankp578@gmail.com	820904202	SVP Blood Bank		B-	0001-05-21	10:00:00	Null
21	Sumit yadav	Sumityadav980@gmail.com	958793442	Karma Blood Bank		O+		11:00:00	Null
22	Raj Kumar	Rajkumar489@gmail.com	812806733	St.Teresa Blood Bank		AB+	2012-01-20	12:15:00	Null
23	Kapil Mishra	Kapilmishra389@gmail.com	637789690	M.K.Gandhi Blood Bank		O-		01:00:00	Please send Blood Bank Location M
24	Renu Goyal	Renugoyal590@gmail.com	701483835	SVP Blood Bank		A-		05:00:00	Null
25	Neeraj Kumar	nkeum345@gmail.com	946168805	SVP Blood Bank		O+		11:00:00	Null

5. Nlentries

eidnl	nlemailID
1	Ankitg456@gmail.com
2	Ranum678@gmail.com
3	Shubhkum789@gmail.com
4	Amantrip987@gmail.com
5	Anujg657@gmail.com
6	Tanishasinghal479@gmail.com
7	Mayagupta409@gmail.com
8	Pankajsoni876@gmail.com
9	Dharmeshpatel876@gmail.com
10	Anishagoyal498@gmail.com
11	Darshanagr390@gmail.com
12	Anishasinghal580@gmail.com
13	Ajaytripathi290@gmail.com
14	Akshaychaudhary6@gmail.com
15	Mukyad467@gmail.com

6. Receiver

pID	pName	pPatientName	pEmail	pPhoneNO	bloodBank	pbloodGr	pmessage
1	Shikhar Nigam	Raj Nigam	Shikar245@gmail.com	772607671	M.K.Gandhi Blood Bank	A+	Urgently Required
2	Vishal Garg	Varsha Sharma	Vishalsharma12@gmail.cor	797628950	SVP Blood Bank	A-	Null
4	Komal Mehta	Vinod Mehta	Komal934@gmail.com	890955946	St.Teresa Blood Bank	B-	Urgently Required
5	Dheeraj Goyal	Jagdish Goyal	Dheeraj876@gmail.com	954917861	Karma Blood Bank	AB+	Null
6	Mahak Gupta	Mahesh Gupta	Mahak456@gmail.com	986745235	SVP Blood Bank	AB-	Urgently Required
7	Vineet Agarwal	Govind Agarwal	Vineet345@gmail.com	953783456	St.Teresa Blood Bank	O+	Null
8	Keshav sharma	Gaurav Parashar	Keshav698@gmail.com	946245063	SVP Blood Bank	O-	Urgently Required
9	Harsh Rathore	Girish Rathore	Harshr345@gmail.com	952902328	Karma Blood Bank	A+	Null
10	Manish Mittal	Prateek Sharma	Manishm988@gmail.com	957683456	SVP Blood Bank	B-	Urgently Required
11	Saurabh Shukla	Rajeev Shukla	Saurabh765@gmail.com	945237849	St.Teresa Blood Bank	AB+	Null
12	Tanuj Patel	Bhavesh Patel	Tanuj345@gmail.com	931452683	M.K.Gandhi Blood Bank	O-	Urgently Required
13	Rashmi Agarwal	Kajal Tripathi	Rashmi454@gmail.com	935367512	M.K.Gandhi Blood Bank	A-	Urgently Required

Work Distribution

1.Front-End Development : Vaibhav Kagathara

2. Database Formation : Vaibhav Kagathara
Vasu Mundra
Saatvik Singh
Anurag Garg

3. Connecting Database with PHP : Vaibhav Kagathara
Vasu Mundra
Saatvik Singh

4. Report Design & Data Entries : Vasu Mundra
Vaibhav Kagathara
Saatvik Singh
Anurag Garg