Cloud Application Development

Plasma Donor Application

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S.NO	PAPER	AUTHOR	YEAR	METHOD
1	Instant plasma donor recipientconnector webapplication	Kalpana Devi Guntoju	2022	This system describes a donor who wants to donate plasma can simply upload their recovered covid19 certificate and can donate the plasma to a blood bank. The blood bank after checking the donor certificate can make a request to the donor when the donor accepts the request, they can add the required number of units they need. The hospital can send a request to the blood bank that needs the patient's emergency plasma and to get the plasma from the blood bank.
2	Convalescent Plasma Therapy: Data driven approach for finding the Best Plasma Donors	M N Noorshidha Dr.G.Aghila	2021	Machine learning algorithms need data to learn. The algorithm would predict the outcome of a future data point based on the learning done. Since Convalescent Plasma therapy is an investigational therapy, the data is not publicly available. We need data about the clinical history of the donors (1) to predict his/her eligibility using a classification algorithm donor is considered eligible if he has a value above the threshold antibody titer value] (2) to predict the real value of antibody using a Regression Algorithm. We have attempted to mimic the required data of clinical history and screening test results.

3	Online Blood Bank Using Cloud Computing	Sagar Shrinivas Vasaikar	2017	The user has to first download the application. He will be provided with two options: Login and sign in. If the person has already registered, then he/she has to login. If not, he/she has to create an account providing basic details like name, address, contact, date of birth, blood group, email id etc. The user is allowed to update his/her information.Once the use registers, he/she can check various blood banks that are located.
4	Real-time cloud system for managing blood units and convalescent plasma for COVID-19 patients	Dhuha Basheer Abdullah Mohammed Dherar Younus2	2021	The decision-making process to manage blood units within the healthcare system is one of the most complex and sensitive due to its direct impact on human life. The previous and current blood unit management systems suffer from several problems related to each other and lead to limited performance and capabilities of these systems, where the most important of which is relying on human intervention in making decisions about managing blood units. The difficulty lies in eliminating the reliance on human intervention in making decisions, in the diversity and complexity of these decisions, in addition to the complexity and overlapping of data, conditions, and rules upon which these decisions depend on; all that may change from one case to another [19]. As the operations of managing blood units depend on the contexts approved by the health care systems, which depend on the type and conditions of disease cases that are dealt with in addition to the type and quantity of available blood units or the extent of their availability.

5	Blood Donation Management System	K M Akkas Ali Israt Jahan Md. Ariful Islam3 Md. Shafa-at Parvez4	2015	The proposed system helps enhancing the communication among blood partners within the supply chain network. The recipient can get blood on emergency. The system also provides SMS facility to donors through smart phone so that they can reach to exact location.Some existing applications of blood donation system are manual which cannot upload and download the latest update and there is no use of web services and remoting. There is no proper coordination between different applications and users. It consumes lot of manpower for better results. Retrieval of data takes lot of time and percentage of accuracy is less
6	Cloud Computing Based Framework for Blood Services	Albert Kurian Basil Joseph Benny Adharsh Raju	2020	The conventional time-consuming process of blood services can be eliminated by maintaining the minimum units of each blood group in the blood bank, consistently. To achieve this, our web page maintains a database to store the details of donors who are active and quickly respond to the blood requests The conventional time-consuming process of blood services can be eliminated by maintaining the minimum units of each blood group in the blood bank, consistently. To achieve this, our web page maintains a database to store the details of donors who are active and quickly respond to the blood requests the requestor is an individual, the system has to verify the request to ensure that the requestor is genuine. When an individual login to the system, his name and contact information are mandatory. and we use OTP verification to authenticate the request. Inorder to validate the request, the individual has to submit a valid doctor certificate. The doctor certificate can be verified by either the administrator

				or a verified donor. If the user tries to misuse the system or provide fake documents the individual will be temporarily blocked with prior warning.
7	E-Blood Bank Application Using Cloud Computing	Shubham Pande Shweta Mate Pradnya Mawal Ayusha Jambulkar	2018	User Registration In this phase the user has to go through the registration process in which he has to fill his details such as name, registered address, contact number, blood group, age, also he has to fill his medical information in the form. Request Blood This is the second phase in which the user who is in requirement of blood will have to request blood by giving the details such as required blood group, contact number of the user, current location of user (which will be fetched by the application automatically), once requested, the list of the nearby donor's will get displayed and also will be notified. Blood Donor This is the third phase in which donor will get the notification of the blood request of the nearby blood requestor (user).and the contact details of the requestor will be displayed on the application. Apart from this the donor can also donate the blood anytime on this will, by using the application.