Ideation Phase

Literature survey

Date	15th October 2022
Team ID	PNT2022TMID30734
Project Name	Project – Plasma donor application
Maximum Marks	4 Marks

Plasma Donor Application

ABSTRACT :

The world is suffering from the COVID 19 crisis and no vaccine has been found yet.. But there is another scientific way in which we can help reduce mortality or help people affected by COVID19 by donating plasma from recovered patients. Inthe absence of an approved antiviral treatment plan for a fatal COVID19 infection, plasma therapy is an experimental approach to treat COVID19-positive patients and help them faster recovery. Therapy is considered competent. In the recommendation system, the donor who wants to donate plasma can donate by uploading their COVID19 certificate andthe blood bank can see the donors who have uploaded the certificate and they can make a request to the donor and thehospital can register/login and search for the necessary things. plasma from a blood bank and they can request a blood bank and obtain plasma from the blood bank.

INTRODUCTION:

infrastructure more efficiently and scale their business according to their requirement. Cloud deployment modules such as public cloud, private cloud, hybrid cloud and community cloud helps the users to choose the type of deployment options that are beneficial for their company. Cloud service models consists of software as a service (saas), platform as a service (paas) and infrastructure as a service (iaas). In Software as a service a third party service providers will host the applications and make them available over the internet. Some a requires purchasing of licensed version with involves huge cost and with the help of software as a service those applications can also be used without having to buy the license of the software which is more cost effective. with the help of platform-as-a-service customers can run, develop and manage the applications without any complexity of building and maintaining the infrastructure which is associated with developing and launching the applications. Infrastructure as a service allows the enterprise to rent or lease the servers for compute and storage in cloud..

PROJECT DESCRIPTION :

The main goal of our ect is to design a user-friendly web application that is like a scientific vehicle from which we canhelp reduce mortality or help those affected by COVID19 proj
by donating plasma from patients who have recovered withoutapproved antiretroviral therapy planning for a deadly COVID19 infection, plasma therapy is an experimental approach totreat those COVID-positive patients and help them recover faster. Therapy, which is considered reliable and safe. If a particular person has fully recovered from COVID19, they are eligible to donate their plasma. As we all know, the traditional methods of finding plasma, one has to find out for oneself by looking at hospital records and contacting donors have been recovered, sometimes may not be available at home and move to other places.

In this type of scenario, the health of those who are sick becomes disastrous. Therefore, it is not considered a rapid process to find plasma. The main purpose of the proposed system, the donor who wants to donate plasma can simplyupload their covid19 traced certificate and can donate the plasma to the blood bank, the blood bank can apply for thedonor and once the donor has accepted the request, the blood bank can add the units they need and the hospital canalso send the request to the blood bank that urgently needs the plasma for the patient and can take the plasma from the blood bank.

Software Required :

- Python, Flask , Docker
- System Required :

8GB RAM, Intel Core i3,OS-Windows/Linux/MAC ,Laptop or Desktop

Project Workflow :

- The user interacts with the application.
- Registers by giving the details as a donor.
- The database will have all the details and if a user posts a request then the concerned blood group donors will get

notified about it.

Advantages :

- It is a user-friendly application.
- It will help people to find plasma easily.

Disadvantages :

- It cannot auto verify user genuineness.
- It requires an active internet connection.

CONCLUSION :

- The application provides a reliable platform to connect local blood donors with patients.
- It creates a communication channel through authenticated clinics whenever a patient needs blood donation.
- It is a useful tool to find compatible blood donors who can receive blood request posts in their local area.
- Clinics can use this web application to maintain the blood donation activity.

- **LITERATURE SURVEY:**
- **Paper 1 – Plasma Donor Application by Server less Computing**

1) Ref-**"Sever less computing : Economic and architectural impact ",ESEC/FSE,2017.**

According to R. C. Gojko Adzic ,in this paper the author has carried out analysis based on the opportunities presented by server less computing. They emphasize that serverless services are more affordable approach for many network services and it is more user friendly as serverless approach will relieve the customers from the intricacies of deployment. These services will help to improve the new business opportunities.

2) Ref **-"Building a chatbot with severless computing ",IBM watson research center,2016.**

According to C. P. C. a. V. I. M. Yan ,in this paper author conducted a survey of existing serverless platform in this paper from source projects, industry, academia, use cases, and key characteristics and has described the challenges and the open problems associated with it. Authors work presented a experience of serverless technologies using different services from different cloud provides such as Amazon, Google, IBM, Microsoft Azure

3) Ref-**"Cloud Event Programming Paradigms: Applications and Analysis","9th IEEE International Conference on Cloud Computing (CLOUD),pp.pp.400 -406,2017.**

According to S. E. a. B. J. J. Short , in this paper three demonstrators for IBM Blue mix Open Whisk was presented. They exhibit even-based programming triggered by weather forecast data, speech utterances and Apple WatchOS2 application data. And also demonstrated a chat bot using IBM Blue mix Open Whisk that calls on the IBM Watson services which include dates, weather, alarm services, news

and music tutor.

4) Ref - **“Making Server less Computing More Server less”, IEEE 11th International Conference on Cloud Computing (CLOUD), pp. pp. 456-459, 2018., 2018.**

According to S. Z. Al-Ali , in this paper server less OS was designed. It comprises of components such as 1. desegregation model that leverages desegregation for abstraction but it will enable resources to move fluidly between servers for the performance. 2. The second key component is cloud orchestration layer which helps to manage fine-grained resource placement and allocation throughout the application lifetime with the help of global and local decision making 3. And the third component is an isolation capability which enforces data and resource isolation.

5) Ref - **“EMARS: Efficient Management and Allocation of Resources in Serverless ”, IEEE 11th International Conference on Cloud Computing (CLOUD), pp. pp. 827-830, 2018.**

According to A. S. a. S. Jindal , in this paper an efficient resource management system for serverless computing framework was proposed which aims to enhance resource with a focus on memory allocation among the containers and the design which was added on top of an open-source serverless platform, open Lambda and it is based on allocation workloads and serverless functions memory needs events are triggered