

Plasma Donor App

- **Introduction:**

In this project we will be building a Plasma Donor App with AWS services like lambda functions, API Gateway, DynamoDB. Also python's framework Flask are used.

- **Overview:**

Serverless computing is the current trend in software application development. Microservices are a popular new approach for building maintainable, scalable, cloud-based applications. AWS is the perfect platform for hosting micro-services. The work of this app is to saving the donor information and helping the need by notifying the current donors.

- **Purpose:**

During the COVID 19 crisis, the requirement of plasma became high and the donor count being low. The main purpose of this app is to be a helping hand for the people who are in need of blood.

- **Result:**

This app will act as bridge between patients seeking plasma therapy and donors who have recovered and have completed 28 days post recovery. The app will also automatically track donors who will be eligible to donate plasma after a cycle of 14 days.

- **Screenshots of output:**

The screenshot shows a web browser window with the URL `ec2-18-188-190-150.us-east-2.compute.amazonaws.com:8080/registration`. The browser's tab bar shows several open tabs, including 'Dyn', 'API', 'Fun', 'IAM', 'Inst', 'Dev', 'API', 'sam', 'Billi', 'API', 'Smo', 'Plas', 'Plas', 'Smo', and 'Dell'. The page has a blue header with the title 'Plasma Donor App' and navigation links 'Home' and 'Request'. The main content area contains a registration form with the following fields: a text input for 'testing', an email input for 'testing@gmail.com', a text input for '1234567890', a text input for 'chennai', a dropdown menu for 'Uninfected', a dropdown menu for 'A Positive', a password input field with masked characters, and a blue 'Register' button. The Windows taskbar at the bottom shows the search bar, task view, and several application icons, along with system information like '12:36' and '07-09-2020'.

Enter Your Name

Enter Email

Enter 10-digit mobile number

Enter Your City Name

Select COVID infection status

Choose your blood group

Enter Password

Register

Registration Successful, please login
using your details

testing@gmail.com

Login

The screenshot shows the Plasma Donar App web interface. At the top, there is a navigation bar with "Home" and "Request" links. The main content area displays a large box with the number "3" and the word "Donors" in red. Below this, there are eight smaller boxes arranged in a 2x4 grid, each representing a blood type and its count:

- O Positive: 1
- A Positive: 2
- B Positive: 0
- AB Positive: 0
- O Negative: 0
- A Negative: 0
- B Negative: 0
- AB Negative: 0

The interface is displayed in a web browser window with multiple tabs open. The browser's address bar shows the URL "ec2-18-188-190-150.us-east-2.compute.amazonaws.com:8080/stats". The Windows taskbar is visible at the bottom, showing the time as 12:37 on 07-09-2020.

12:38



35%



Fast2SMS

VK-FSTSMS



Now

8220863908:Need plasma of

- **Appliction:**

Link : <http://ec2-18-188-190-150.us-east-2.compute.amazonaws.com:8080/>

- **Conclusions:**

Plasma Donor 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 activitiy.

- **Future Scope:**

This app reduces the time lag between the searching and contacting for blood donors to a few seconds which can be of utter use to the people of this country in saving more and more lives. since almost everyone carries a mobile phone with them, it ensures that it has a great scope in future.