

PLASMA DONOR APPLICATION SPRINT - 3

TEAM ID: PNT2022TMID53106

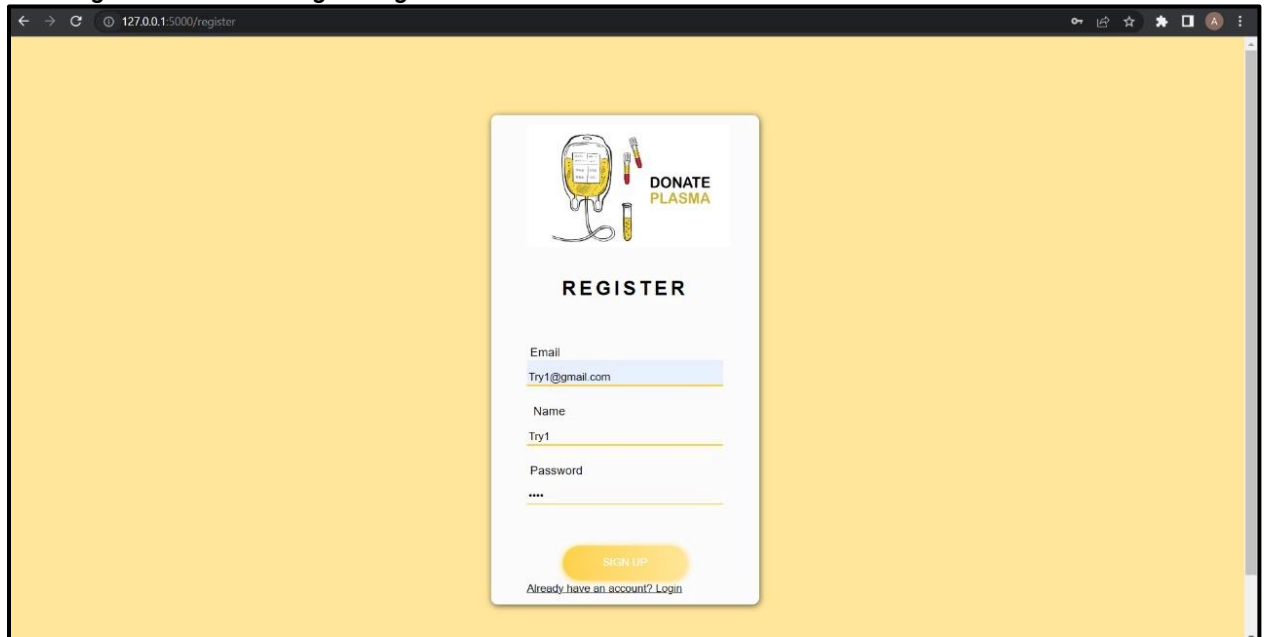
MEMBERS: Arandeep Singh, SA Madhulica, Srivatsan S, Vaibhav Pandey

CODE: Uploaded in GitRepo

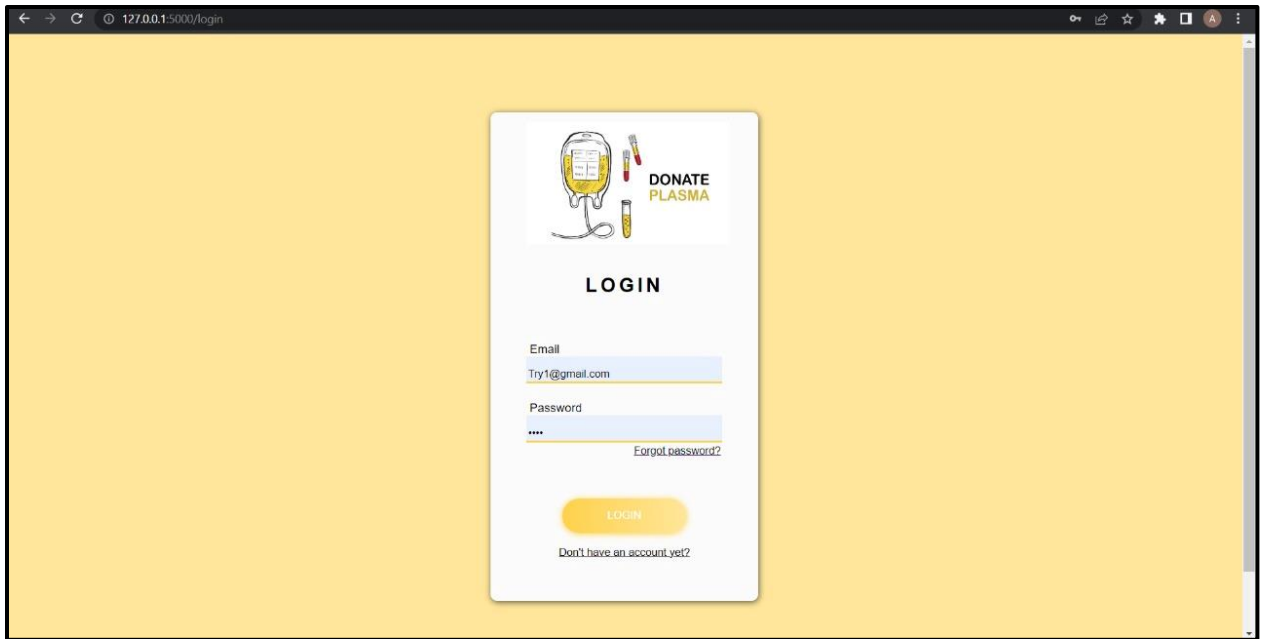
DESCRIPTION OF USN AND SCREENSHOTS:

1. USN - 1: Create front end for all the listed services and connect them to back end.

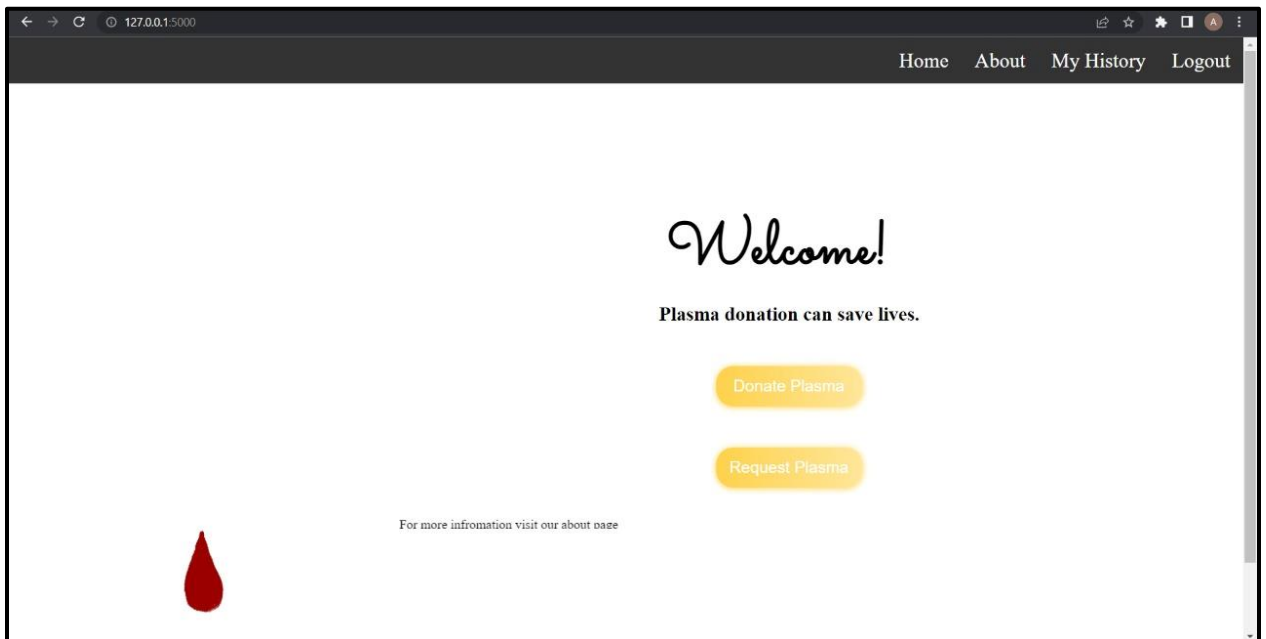
- Registration and Login Page:



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000/register". The page has a solid yellow background. In the center, there is a white rectangular form titled "REGISTER". At the top of the form is an illustration of a plasma donation bag and tubes, with the text "DONATE PLASMA" to its right. Below the illustration, the word "REGISTER" is written in bold. The form contains three input fields: "Email" with the value "Try1@gmail.com", "Name" with the value "Try1", and "Password" with four asterisks. Below these fields is a yellow "SIGN UP" button. At the bottom of the form, there is a link that says "Already have an account? Login".



- Home Page:



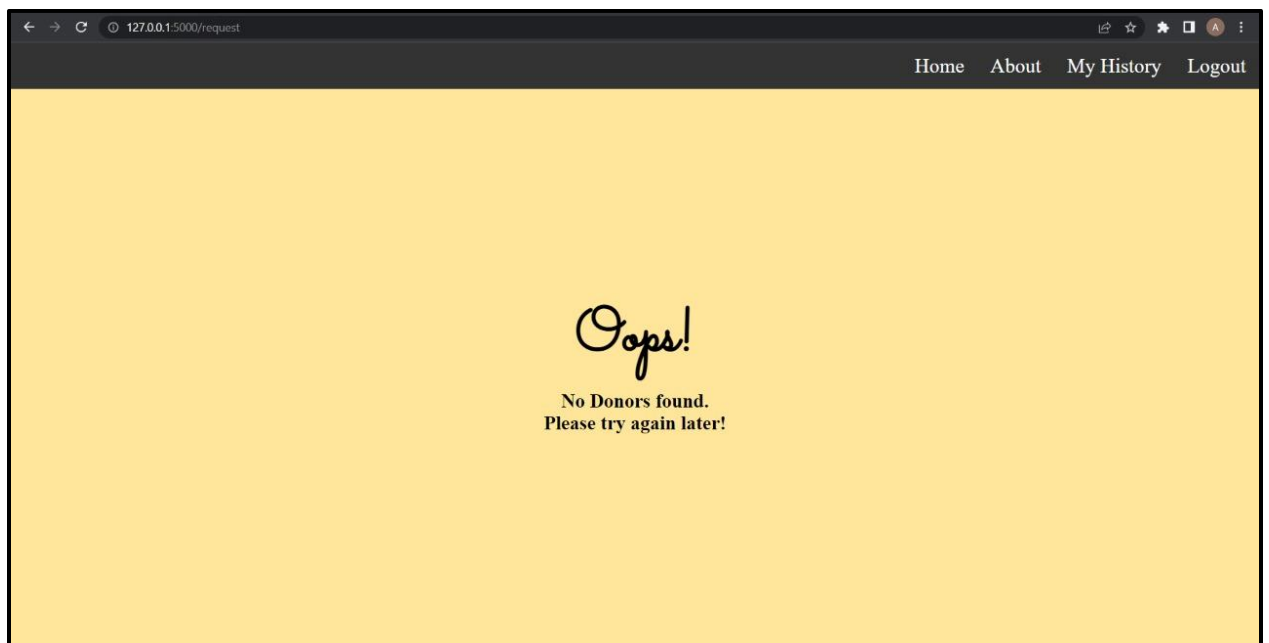
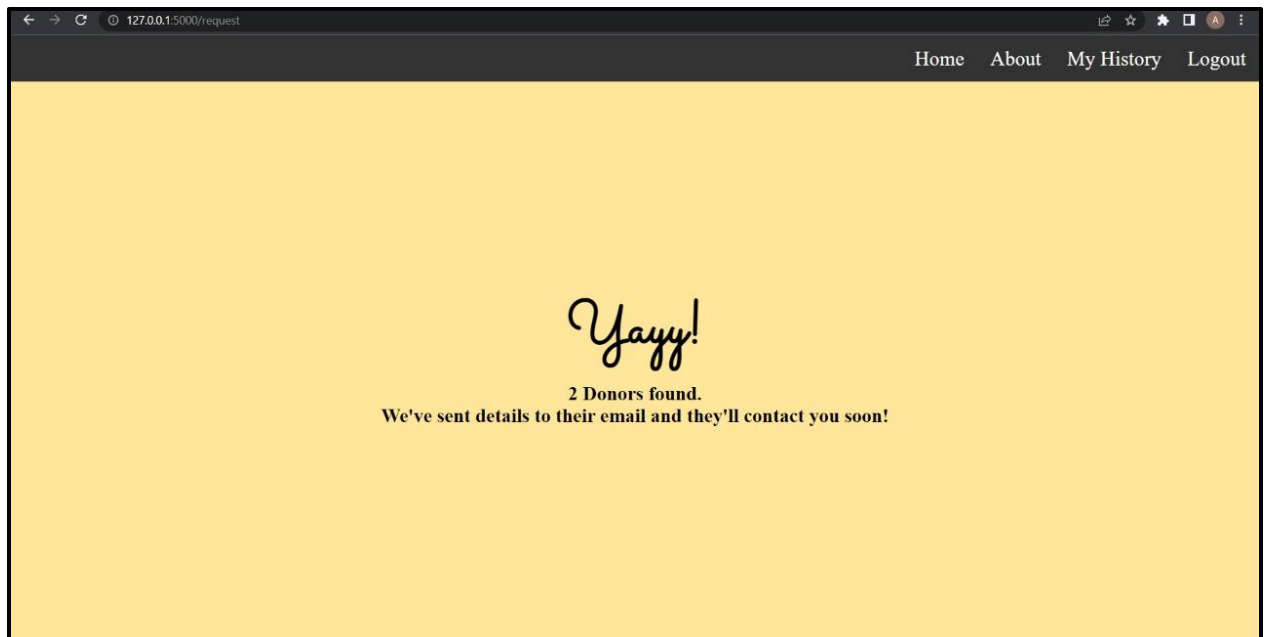
- Donation:

A screenshot of a web browser displaying a form titled "DONOR DETAILS". The browser's address bar shows "127.0.0.1:5000/donate". The navigation bar includes links for "Home", "About", "My History", and "Logout". The form is centered on a yellow background and contains the following fields: "Email", "Name", "Phone", "Blood Group", and "Address". Each field has a yellow underline. A yellow "SUBMIT" button is located at the bottom of the form.

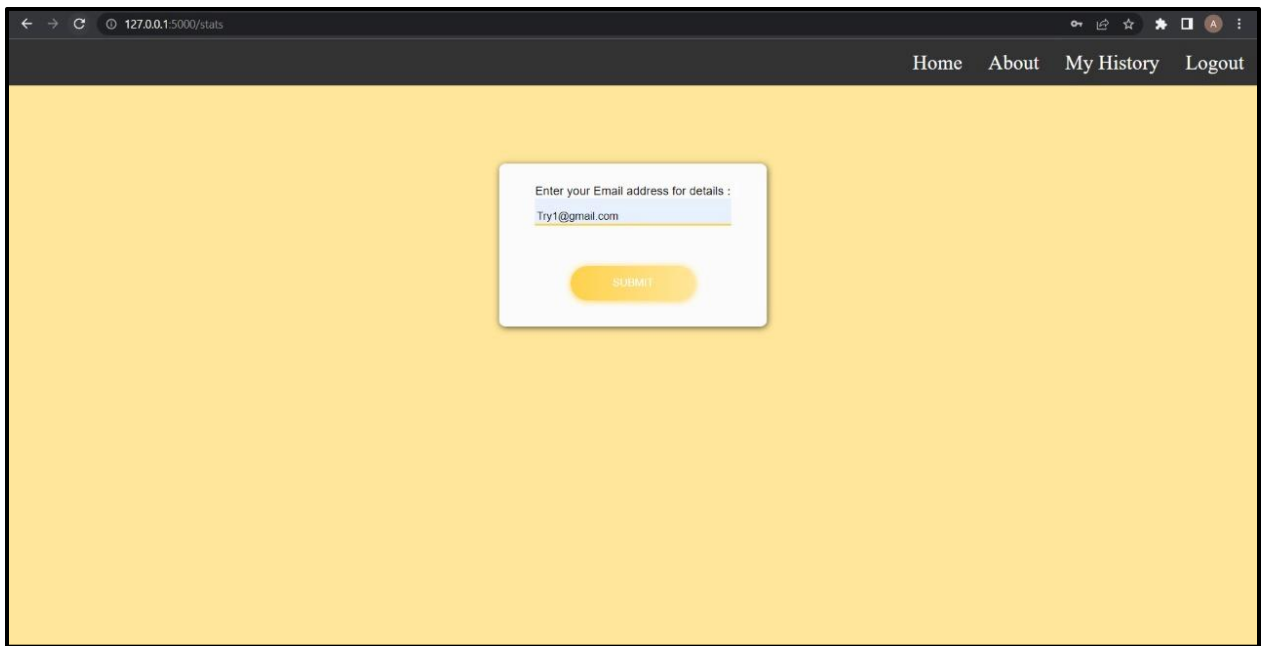
- Request Plasma:

A screenshot of a web browser displaying a form titled "RECIPIENT DETAILS". The browser's address bar shows "127.0.0.1:5000/request". The navigation bar includes links for "Home", "About", "My History", and "Logout". The form is centered on a yellow background and contains the following fields: "Email" (with the value "Try1@gmail.com"), "Name" (with the value "try1"), "Phone" (with the value "1234567"), "Blood Group" (with the value "B+"), and "Address" (with the value "Sr"). Each field has a blue underline. A yellow "SUBMIT" button is located at the bottom of the form.

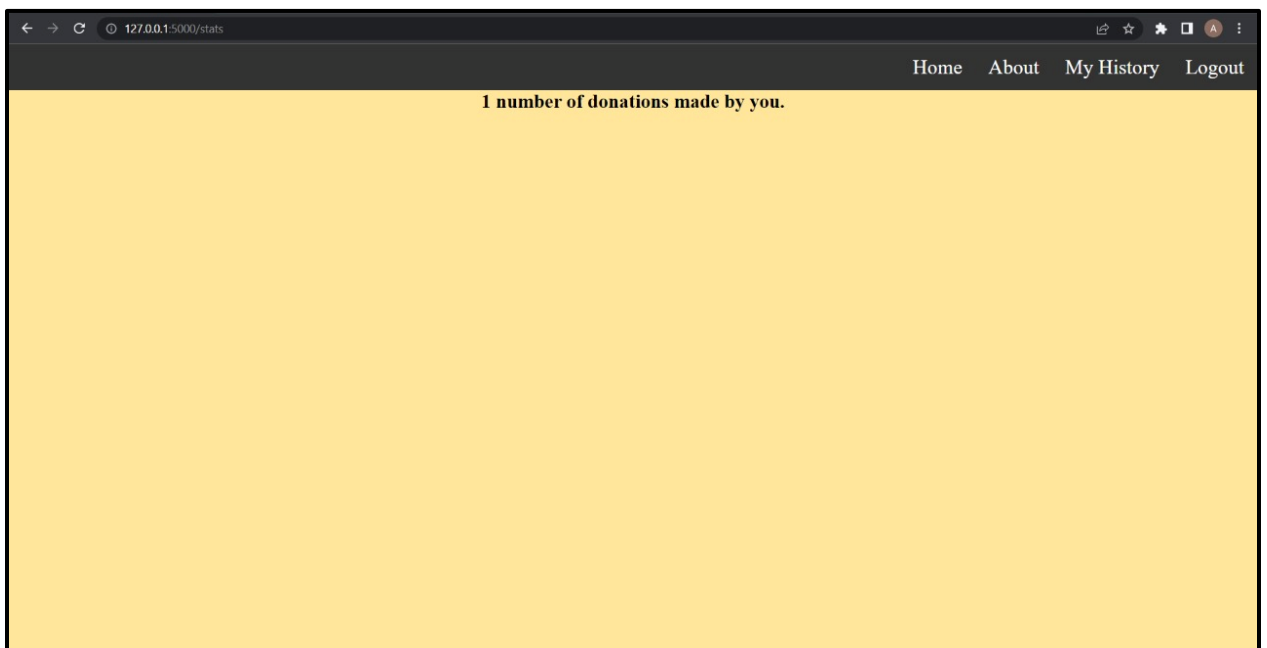
- Available Donors during Request:



- Account Donation History:



A screenshot of a web browser window. The address bar shows "127.0.0.1:5000/stats". The navigation bar includes links for "Home", "About", "My History", and "Logout". The main content area has a yellow background and a white form box in the center. The form contains the text "Enter your Email address for details :", a text input field with "Try1@gmail.com", and a yellow "SUBMIT" button.



A screenshot of a web browser window. The address bar shows "127.0.0.1:5000/stats". The navigation bar includes links for "Home", "About", "My History", and "Logout". The main content area has a yellow background and displays the text "1 number of donations made by you." in the center.

- About Page:

[Home](#) [About](#) [My History](#) [Logout](#)

The Importance Of Plasma In Blood

1. Red Blood Cells

- Refrigerated up to 42 days
- Usually for high \times Tg/ld
- T unit should raise Hgb by 1g/dl and Hct by 3%

2. Platelets

- Must be agitated to prevent clumps
- Room temp up to 5 days

3. Plasma

- Contains all coagulation factors
- Lasts up to 1 year frozen

4. Cryoprecipitate

- Precipitate of thawed FFP
- High factor VIII and fibrinogen
- Lasts up to 1 year frozen

Plasma is the liquid portion of blood. About 55% of our blood is plasma, and the remaining 45% are red blood cells, white blood cells and platelets that are suspended in the plasma. Plasma is about 92% water. It also contains 7% vital proteins such as albumin, gamma globulin and anti-hemophilic factor, and 1% mineral salts, sugars, fats, hormones and vitamins.

[Home](#) [About](#) [My History](#) [Logout](#)

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Plasma serves four important functions in our body:

1. Helps maintain blood pressure and volume.
2. Supply critical proteins for blood clotting and immunity.
3. Carries electrolytes such as sodium and potassium to our muscles.
4. Helps to maintain a proper pH balance in the body, which supports cell function.

What is a plasma donation?

In a plasma-only donation, the liquid portion of the donor's blood is separated from the cells. Blood is drawn from one arm and sent through a high-tech machine that collects the plasma. The donor's red blood cells and platelets are then returned to the donor along with some saline. The process is safe and only takes a few minutes longer than donating whole blood. Donated plasma is frozen within 24 hours of being donated to preserve its valuable clotting factors. It can be stored for up to one year and thawed for transfusion to a patient when needed. Red Cross donations are often used directly for hospital patient transfusions, rather than pharmaceutical uses.

Who should donate plasma?

The Red Cross urges people with type AB blood to consider a plasma donation. AB is the only universal plasma and can be given to patients of any blood type. This means that type AB plasma transfusions can be given immediately, without losing precious time determining if the patient's blood type is compatible. In emergency medicine, such as caring for a major trauma or burn patient, time saved can mean the difference between life and death.