PLASMA DONOR APP

1.INYRODUCTION:

1.1 Overview

A brief description about plasma donor App:

During the COVID 19 crisis, the requirement for plasma became high and the donor count being low. Saving the donor information and helping the need by notifying the current donors would be a helping hand. In regard to the problem faced, an application is to be built which would take the donor details, store it and inform them upon a request.

Users need to register an account and login to the application. Once the user logins, he will have a dashboard to view the total number of donors and count of people with specific blood groups. User will have the option to request the blood. Once the user requests, all the people with that blood group will be notified with an SMS.:

Project Workflow:

- User interacts with the application.
- Registers by giving the details as a donor.
- Database will have all the details and if a user posts a request then the concerned blood group donors will get notified about it.

- Create the docker image for the application and deploy on Redhat Openshift dev space.

1.Setting Up Application Environment

As a first step of the project let's setup the application environment

Task-1: Install Python

- For Python Installation:

  https://www.youtube.com/watch?v=uxZuFm5tmhM

- For Flask Setup:

https://www.youtube.com/watch?v=uxZuFm5tmhM

- For IBM DB2 it is similar to the flask installation command.Please use the below command to install python library for IBM

  “pip install ibm_db”

2.Implementing Web Application

Second step is of the project is to build the web application

Task-1: Download the source code from Github.Use the below reference to

https://smartinternz.s3.amazonaws.com/DownloadSourceCode.mp4

Source code Url :https://github.com/smartbridgesip/PlasmaDonorApplication

Task-2:Create IBM DB2 service in IBM cloud

https://smartinternz.s3.amazonaws.com/IBMDB2Creation.mp4

Task-3: Integrate python code with IBM DB2 service

https://smartinternz.s3.amazonaws.com/ConnectingwithDB2.mp4

3.Uploading Source Code To Github

As a step three you need upload the code which is implemented to the github

Task-1: Create an github account if you don’t have.

https://www.youtube.com/watch?v=QUtk-Uuq9nE

Task-2: Create repo and upload the source code to github.

https://smartinternz.s3.amazonaws.com/GithubCodePush.mp4

4.Deploy The App On OpenShift RedHat Dedicated

Deploy the app on the RedHat.

Task-1: Depoy the application on openshift redhat dedicated

https://smartinternz.s3.amazonaws.com/DeployAppInOpenshift.mp4

By the end of this project:

- You'll be able to work on IBM DB2, creating flask application,making an application into an docker image and deploying app in Redhat Openshift dev space.
- Build a flask application which will take the user inputs, update the IBM DB2 database and notify the user upon request.

Conclusion:

I follow the above four major steps to implement this project.