Dept. of Computer Science and Engineering (Data Science)

Adichunchanagiri Institute of Technology, Chikkamagaluru

Mini Project Synopsis

TITLE: Blood and Organ Donation Management System

Problem Statement: The process of finding suitable blood and organ donors is often time-consuming and can be critical in emergency situations. Matching the right donor with the right recipient, while considering factors like blood type, organ requirements, and location, is a major challenge faced by hospitals and patients. Therefore, an automated system is needed to streamline the process of connecting donors with those in need, ensuring timely delivery of life-saving information..

Description: This project is a web-based platform that connects blood and organ donors with those in need by automatically notifying them, ensuring timely assistance in critical situations. It uses a simple database to manage registrations and requests, facilitating faster and more efficient donation processes.

The **applications** Hospitals and Clinics , Blood and Organ Donation Camps, Government Health Services

Expected Outcomes: The project will result in a Improved Communication, Increased Donation Rates ,Enhanced User Experience , Faster Matching Process

Technologies and Tools:

- **Languages:** Python, HTML, CSS.
- **Libraries/Frameworks:** Flask, pandas, smtplib, Bootstrap
- **Hardware:** Cloud server (1+ GB RAM)
- **Optional:** Docker, Twilio, SendGrid, PostgreSQL, React, MySQL, Heroku, Mongodb, Javascript, Scikit-learn, FastAPI

Team Members:
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Signature of the Guide with date   **Signature of the Coordinator with date**