ONLINE ORGAN DONATION MANAGEMENT SYSTEM

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ABSTRACT

The organ management data system offers functionalities to quick access to donor records collected from various parts of the country. In the other kinds of donations, it mainly collects the donations of the donors and deliver them to the respective organizations and provide the information to the respective doctors of that organization to maintain transparency. To manage the donor registration and user maintenance. People who interested can register themselves through this system. Organ transplantation is the only way of giving the gift of life to the patients with organ failure; however, the inadequate supply of organs, especially from deceased donors, has created a wide gap between organ supply and organ demand. Many organs from deceased donors are still not being used worldwide because of lack of information, education, and social system. Effective systems such as opt-out, donation after circulatory death, and donor action programs are needed to promote deceased donations. Counseling on organ donations must be an essential step of families of brain-dead patients. Standard practice should include that physicians call an Organ Procurement Organization coordinator before meeting with the families of potential donors. Tight screening for potential organ donor in intensive care unit, decoupling, and professional counseling are key components. The authorities have to consider the establishment of an opt-out system, and social systemic efforts are needed.

Keywords: Organ Donation, Deceased Donor, Promotion, Donor, Transparency, Transplantable Organs.
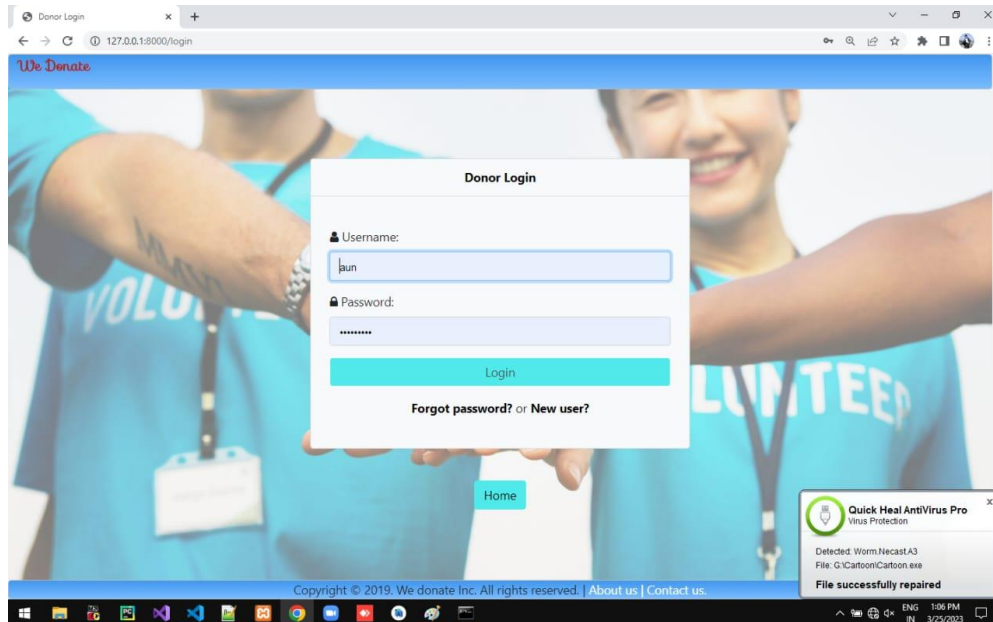
I.   INTRODUCTION

Organ transplantation is the only option to save live in patients affected by organ failure and improve their quality of life. However, there is stress gap between the donor and recipient or between the supply and demand of organ, which make visible to death rates. For that some of the main reasons are lack of awareness, religious and superstitious beliefs, and strict laws. The universal issue of organ shortage is prevalent in Asia, particularly in India, where the situation is worse compared to other countries in the continent, many factors contribute to this problem, such as religious myth, lack of knowledge or awareness, and efforts of government not reaching the root level. Though government is coming up with "Ayushman Bharath", Swachh Bharat Healthy Bharat, ABHAA etc. schemes were limited to health improvement only NOTTO which is statutory government body under Ministry of Health & Family Welfare is working singularly to improve the conditions. Transplantation of Human Organ Act has been passed in 1994 by Indian Government which Some people are interested in this social cause but don't have enough knowledge as to what to do and how to donate. Another factor is people are not literate enough to know the importance of this cause. So, we are providing our Country with an Organ Donation Management system to spread awareness and give an easy service to our people to recover life. Because the era of internet technology opens the window with application/software/website. The Indian Society of Organ Transplantation was established in 1987 with a goal to provide a common forum to all involved in the transplant activity. The society initiated from CMC Vellore and its inaugural meeting was held at Institute of Kidney Disease and Research Centre, Civil Hospital, Ahmedabad in 1988. The society has over 650 members which include clinicians, basic scientists and others involved in the field of transplantation.

II.   DESIGN AND IMPLEMENTATION

In the proposed system, To overcome the issue of wasting the organs the donor's identification will be taken in a multi variant approach. Donor's portrait of the image and a distinctive identification number is unique way of recognition. Once the person is met with an accident or stuck in any tragedy, the donor's face will be identified by the neighboring hospitals and the information about the user will be fetched easily. The retrieved information will be matched to identify whether the person is a donor or not. Next level is an authentication number which will be provided during registration of the user.
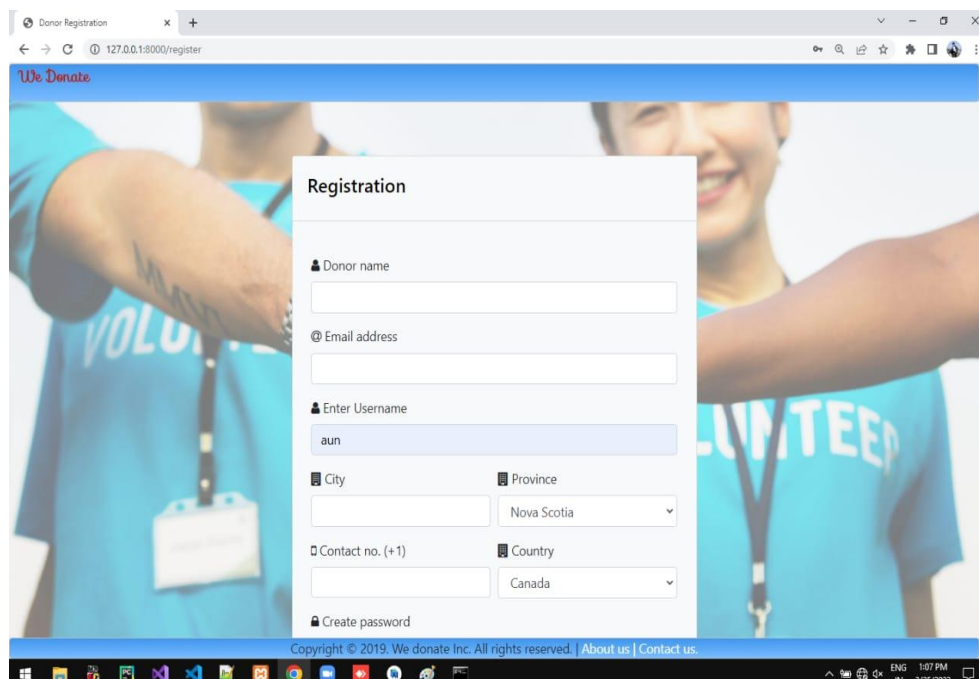
Donar Login

This module is the major initial and headmost module of the project for the motive of authentication. Hospital Management creates a individual login for all donors. Login modules comprise basic attributes like username and password.

Registration

This is the second module after secure login of the user of the hospital management. Registration of donor or user is made in this module by the user of the hospital management staff in a central archive. The Details of registration includes the basic information, Guardian Information and Organ information Basic information of the donor to be registered is Name, Age, Date of birth and Blood group. Guardian Information of the donor is the Name and contact details of the guardian of the particular donor to whom the hospital management passes the information if the donor is exposed to death. Organ information of the donor should contain the organ name which the donor wishes to donate. These details are registered in this module by the user of the hospital after secure login.

Admin

This is the main module in which the administrator of the system can only login and view all the activities and transaction which are occurred in the system. The admin can view all the users and also find the user history and search organ based and location based searches.

III.   EXISTING SYSTEM

Our project is mainly focused to provide the services to the needy through a single submission and make the donation process easy. In this donation the donor can easily reach the needy through the consent of the admin. In the other kinds of donations, it mainly collects the donations of the donors and deliver them to the respective organizations and provide the information to the respective doctors of that organization to maintain transparency. To manage the donor registration and user maintenance. People who interested can register themselves through this system. The main aim is collecting the donations and transporting them to the respective organizations and also deliver the information to the doctors of that organization.

IV.   PROPOSED SYSTEM

In this we preserve all kinds of essential donations to the needy under single portal and providing contributions to needy. organizations and also provides the information to the volunteers of that organization to maintain transparency. Moreover, the system could be designed in such a way to exchange information with the other tools and take into account their results, producing a result which is already suitable under the three points of opinion. Even in the case of multiple organs to be assigned, the process would turn out to be more efficient, since different software tools could work in parallel substituting human beings and producing results with less cost in term of human resources involved.

V.   SOFTWARE REQUIREMENT

1. Python
2. Sublime Text Editor
3. XAMP Server
4. MYSQL

VI.   HARDWARE REQUIREMENT

1. Windows 7 or Higher
2. I3 Processor
3. 100 GB HDD
4. 4 GB RAm

VII.   PROBLEM STATEMENT

There are less websites in the market related to these organs like organdonor.gov to donate and request organs, we created this website to manage all those things stuff like donating and requesting. So many people are dying due to organ sufficiency and they can't run to hospitals in a critical time there is no guarantee that specific organ is present at that time at region/state by overcoming all those things we created this website organ donation management system here they can easily register themselves for donation and they easily request for an organ Our team from various hospitals from various states will collect data from hospitals update data using python API's. So this is the efficient way to deal with everything is becoming online why people should search all through the hospitals instead finding in a website, So this thought comes in our mind and we made it for a 1.4 Billion people in India. We know there might be some flaws in this process but one has to start at initial step.

VIII.   CONCLUSION

In this research paper, we represented organ donation applications in a precised way and it is published through internet to all over hospitals. It is mainly used in case of any accident. In future this application can be implemented for our medical related application "Multi Perspective Organ Donor Identification System" will reduces death rate since we are getting details of organ donor in time. Therefore, interventions targeted at

remodeling the donation process or rising donation rates should be based on sound theoretical structures and would profit from more rigorous calculation methods to provide good knowledge transcription and appropriate organizational decisions to improve professional services.

IX.   REFERENCES

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