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Organ Sharing -Donor and Finder Application

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ABSTRACT: Our project is mainly focused to provide the services to the needy through a single Php web application 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, Its main purpose is to provide a smart and easy way through Django web Application for collects the donations of the donors both organ or blood 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. In this proposed system we develop an Django application for organ and blood donate system is collecting the blood and organ donations and delivering them to the respective organizations and also provide the information to the doctors of that organization For the better management of organ and blood donation to improve efficiency. Django admin is most powerful parts of Django is its automatic admin interface. It reads metadata in your models to provide a powerful and production-ready interface that content producers can immediately use to start managing content on your site. Django is a web application framework written in Python programming language. It is based on MVT (Model View Template) design pattern. Django is implemented in Python, which has excellent security track record.

I.INTRODUCTION

The Online Organ Donation Management System (OODMS) is developed mainly for general hospitals (GH), clinics and other health centers to manage the donor registration and user maintenance. It is an online system which only can be access or valid in Malacca state. The public can retrieve information about organ donation in this web site. People who interested can register themselves through this system. The application will be processed by the administrator and each donor will receive feedback about their application status. Furthermore, the authorized user's account will be maintained by the administrator. The donor record will be managed by four main users such as administrator, doctor, medical assistant and management staff. Only administrator has the authority and privileges to print organ list report and total donation report according to district from this system. The methodology of this system is Structured System Analysis and Design (SSADM). An analysis study has been done based on the current manual system and all the problems statements and requirements have been identified. Moreover, OODMS is three tier architecture system which involves client tier, business tier and database management tier. The interfaces for OODMS have been designed according to the requirement and needs of the current market Rather than that, this system also has been tested and evaluated in real life. This Online

Organ Donation Management System will help to improve the performance of current situation and overcome the problems that arise nowadays.

II. OVERVIEW OF THE PROJECT

This report discusses the result of the work done in development of "Websites for Organ donation on "HTML" and "PHP" Front-end Platform and "MySQL" as backend Platform. At the development of an application PHP provides a good connecting facility between all pages, also the back-end MySQL is most important to save all the data related the application.

Background And Motivation
The definition of our problem lies in manual system and a fully automated system.
- MANUAL SYSTEM: The system is very time consuming and lazy. This system is more prone to Errors and sometimes the approaches to various problems are unstructured.

- TECHNICAL SYSTEM: With the advent of latest technology if we do not update our system then our business results in losses gradually with time. The technical systems contains the tools of latest Trend i.e. computers printers, fax, Internet etc. The systems with this technology are very fast Accurate, user-friendly and reliable.

Objective

Need of Organ Donation Websites:

- To promote organ donation for transplantation as a treatment for many life threatening diseases including heart disease, kidney disease, liver disease, diabetes and cystic fibrosis
- To educate and inform the community, patients and their families and health professionals about organ and tissue donation to markedly improve rates of donation.
- To work in partnership with Department of Health (DOH), clinicians, and hospitals to promote best practice professional training and ensure that the family of every potential donor is offered the option of donation in a caring and respectful manner.
- To provide support, care, information and advocacy for people and with end stage organ failure, donor families, living donors transplant recipients and their families.
- To provide policy advice to DOH, clinicians and hospitals.
- Assuring compliance with all external regulatory bodies, including but not limited to: the Organ Procurement and Transplantation Network (OPTN), the United Network for Organ Sharing (UNOS),Centers for Medicare and Medicaid Services (CMS) Conditions of Participation (COP), the Missouri

State Department of Health (DOH), The Joint Commission (TJC) Standards

- Ensuring the programs accreditation
- Identifying opportunities for improvement
- Prioritizing performance improvement and patient safety projects within organ transplantation
- Continuously audit compliance and regulatory standards related to organ transplantation
- Ensuring policies and procedures applicable to organ transplantation are evidence based, regularly reviewed and audited for compliance.

III. PROPOSED SYSTEM

Proposed system

In this we maintain all kinds of essential donations to the needy under single portal and providing donations to needy. The main aim is collecting the donations and delivering them to then respective 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 view. Even in the case of multiple organs to be assigned, the process would turn out to be more efficient, since different software tools (one for each organ/medical team/route) could work in parallel substituting human beings and producing results with less cost in term of human resources involved.

ADVANTAGES

Maintain transparency

Easy access to data

Saves time

IV. DATA FLOW DIAGRAM

A data flow diagram is graphical tool used to describe and analyse movement of data through a system. These are the central tool and the basis from which the other components are developed. The transformation of data from input to output, through processed, may be described logically and independently of physical components associated with the system. These are known as the logical data flow diagrams.
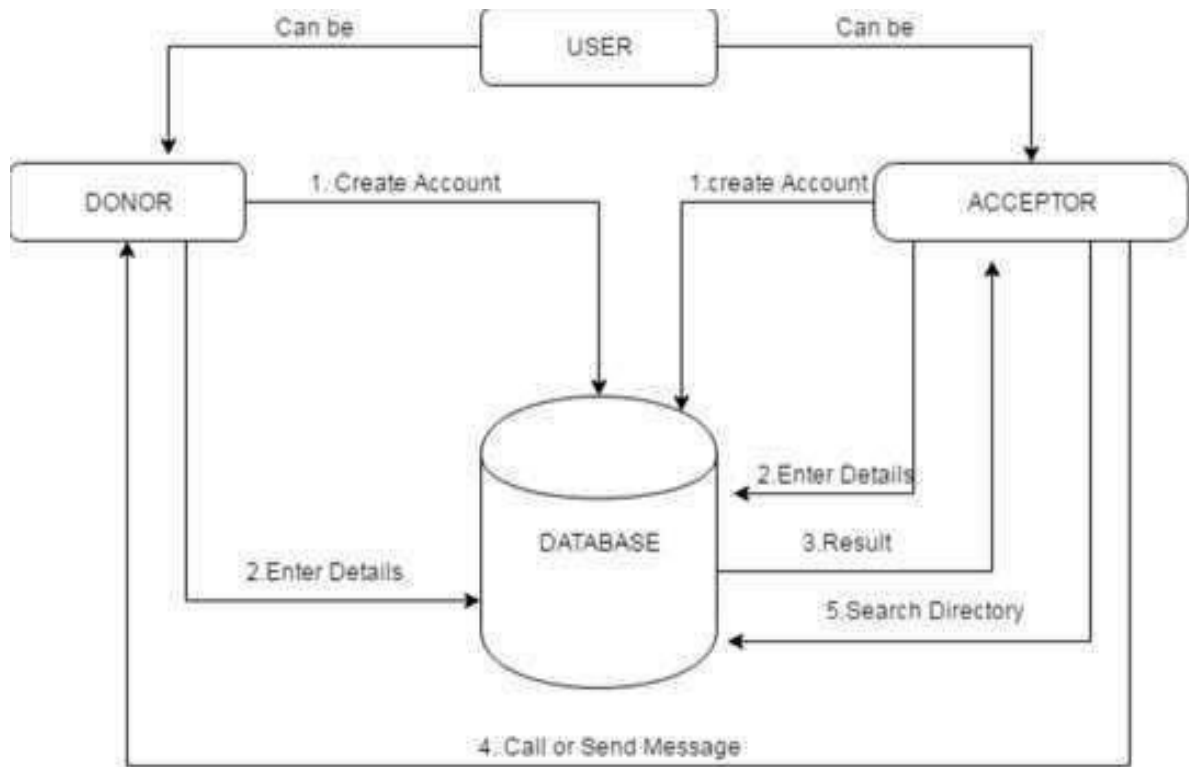
The physical data flow diagrams show the actual implements and movement of data between people, departments and workstations.

Larry Constantine first developed the DFD as a way of expressing system requirements in a graphical from, this lead to the modular design. A DFD is also known as a "bubble Chart" has the purpose of clarifying system requirements and

identifying major transformations that will become programs in system design. So it is the starting point of the design to the lowest level of detail. A DFD consists of a series of bubbles joined by data flows in the system.

SYSTEM FLOW

V. CONCLUSION

Thus we have successfully implemented organ donation database management which helps us in centralizing the data used for managing the tasks performed in a organ donation we have successfully implemented various functionalities of mysql and php and created the fully functional database management system for organ donation.

Future Enhancement

It is not possible to develop a application that makes all the requirements of the user. User requirements keep on changing. so, Some of the future enhancements that can be done to this system are:

- As the technology emerges, it is possible to upgrade the application and can be adaptable to desired environment.

- We can also applicable this to Oracle and MySQL instead of SQL Server.

- Based on the future security issues, security can be improved using encryption and decryption techniques.

- We can also provide administrative tools like Backup, Replication and Linked Server.

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