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SYNOPSIS

ON

**Organ Donation Management System(ODMS)**

Submitted in partial fulfillment of the requirement for the award of degree of

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

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Year 2019-2020

**ORGAN DONATION MANAGEGEMENT SYSTEM**

**Introduction:**

The **Organ Donation Management System (ODMS)** is developed mainly for general hospitals (GH), clinics and other health centers to manage the donor registration and user maintenance.

The public can retrieve information about organ donation through this desktop application. People who are interested in organ donation can register themselves through this system. The application will be processed by the administrator and each donor will receive feedback about their application status.The donor can visit specified medical centers to perform a medical check-up or can ask for a medical assistance at home.

Only administrator have the authority and privileges to print organ list report and total donation report according to district from this system. An analysis study has been done based on the current manual system and all the problems statements and requirements have been identified.

Moreover, ODMS is three tier architecture system which involves client tier, business tier and database management tier. The interfaces for ODMS have been designed according to the requirement and needs of the current market.

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

**Objective and scope of project:**

Organ transplantation involves a complex, collaborative set of interactions among patients, family members, healthcare professionals, organ procurement and transplant coordinators, the hospital where the donation occurs, the organ procurement organization (OPO) that facilitates the acquisition and distribution of organs, and the transplant center. Thus the ODMS comes into play.

* The Primary objective of ODMS is to facilate better and efficent communication between organ donor, hospitals or general clinics, and the recipients of organs. ODMS serves as a unique platform for organ donation.
* The ODMS objective is to be patient centered-providing care that is respectful of and responsive to individual patient preferences, needs, and values and ensuring \that patient values guide all clinical decisions.
* It will also help to promote organ donation between willing indivisuals and to help general hospitals to ensure legal operation of both organ reciption and implantation.

Scope:

The user can register themself for organ doantion and help the society for better cause.

The organ reciptants can have better organ recipetation facilities.

The organ donation process is made effortless and efficent. It also removes tedious works required during user registration.

**Methodology**:

Proposed Plan of Work(modules):

There are 3 major module in ODMS as:

1.Registration:

In this module the registration of both donar and reciver will we caried out. Each user will get their unique Id type which they will use

to log-in to system.

2.Login:

In this module the uer can log into his/her profile, carry out perodic updates, modify profile. The log-in Id will be one provide during the profile registration.

The login module is further divided into three sub modules.

The modules to pop up will be defined by the log-in Id type.

2A: Donar login:

This module will allow updates to the donar profile.

The user can report any recent updates to his medical conditions.

2B: Reciver login:

This module will allow updates to the reciver profile.

The hospitals,mediators will have partial control over such profiles.

2C: Mediator login:

These profile will be internally generated in the system.

Such profiles will not have any registration platform.

Mediator could be hospitals, GC, governing bodies.

The ui interface of system will showcase promotional aspects of organ donation,

followed by registration suggestion. This will switch to registration module.

* Registration module will consists of following data:
  + User identity data.
  + User medical history data
  + User donating preferiences

**Application:**

The Odms can be implemeted in various sectors such as:

Hospital management system where the record section can keep organ transplant

data in secure state.

Government Agencies to keep vigle eyesight over organ tranplantations thus ensuring arrest on illegal tissue trafficing.

Government schemes to promote organ donation.

**Hardware and software used:**

* Hardware specification:

Processor: Intel core Duo 1.2 GHz or greater

or AMD Ryzen 3 2.0 GHz

Hardisk: 20 MB of free space

Ram : 2 GB DDR3 or greater

Host OS: Windows 7 SP1 or greater

Ubuntu Linux 16.07

* Software specification:

Programming Language : Python 3.7

Develpoment Enviornment: Pycharm community Edition 2019 IDE of JetBrains s.r.o

Backend Database: MySQL 8.0 DataBase Management Syste m of Oracle Corporation.

UI Interfacing: Tkinter

Network Interfacing: Sockets

VCS(Version Control System): GITHUB of Microsoft Corporation.

**Conclusion:**

**References:**