**Abstract**

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 has 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 systems which involve 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.

The project will be developed using python 3.7 programming language and the IDE used by this project will be pycharm\_community and the development tools used will be based on Tkinter for Graphical User Interface and Socket module for Networking and SQLite for Database purposes.