**Organ & Blood Donation Software System**



University Institute of Technology

Kuravankaonam, Kawodiar P.O.

Thiruvananthapuram

**PRE-PROJECT DOCUMENT**

B.Sc. Computer Science Degree of  
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TEACHER IN CHARGE

* Jitha Tr.

MEMBERS

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| --- | --- |
| * Akil Sundhar | (32018950006) |
| * Deepak V. | (32018950016) |
| * R. Subramony | (32018950029) |
| * Sreejith S. Nair | (32018950039) |

SELECTION OF TOOLS

* Apache NetBeans IDE 8.2
* Java Development Kit 8.0.211
* MySQL 5.1.42
* MySQL Administrator 1.1.9
* Java Runtime Environment 8.231
* Microsoft Office 2016
* Microsoft Windows® 7

DISCRIPTION OF TOOLS

* Apache NetBeans IDE 8.2

It is used as front-end development environment. This tool provides support to create professional desktop, enterprise, web and mobile applications with the Java platform.

* Java Development Kit 8.0.211

JDK 8 provides sufficient java libraries and provides a runtime for the software.

* MySQL 5.1.42

Here we use MySQL local server based RDBMS which provide a back-end server for data storage.

* MySQL Administrator 1.1.9

MySQL administrator helps to manage and organize databases used in the project.

* Java Runtime Environment 8.231

Java Runtime Environment is used for running the java program in non- java devices.

* Microsoft Office 2007

Documentation of data

* Microsoft Windows® 7

The operating system chosen for work within.

PROJECT SCOPE

Organ donation is the process when a person allows an [organ](https://en.wikipedia.org/wiki/Organ_(anatomy)) of their own to be removed and transplanted to another person, [legally](https://en.wikipedia.org/wiki/Organ_donation#Legislation_and_global_perspectives), either by consent while the donor is alive or dead with the assent of the next of kin. Donation may be for research or, more commonly, healthy [transplantable organs and tissues](https://en.wikipedia.org/wiki/Transplantable_organs_and_tissues) may be donated to be [transplanted](https://en.wikipedia.org/wiki/Organ_transplantation) into another person.

Here, we likely to develop an Organ & Blood Donation software project. The purpose of the software project is to develop a management information system to automate the record keeping of members, donors and recipients, organ request, blood request etc. with a view to enhance the decision making functionaries.

OUT OF SCOPE

The software deals only with the management of organ & blood donation and requests. The software doesn’t provide additional functionalities like donation locations, transfer of personal details to other members of this organization.

SOLUTION

The software provides functionalities like

* Admin/Organization/Member /Volunteer Login
* Membership
* Organ/Blood donation
* Request for Organ/Blood
* Request acceptance – Allowed by organization only
* Request validation

PEOPLE AND ROLES

Mainly there are four stakeholders in software development:

1. Citizen Level- In this level normal people (Citizens) are joined by themselves. In this level people can request for blood/organs.
2. Organization Level- This level contain organization members which is directed only by administrator. These members check the genuinety of the request provided by normal membership requests for organ/blood.
3. Administrator Level– This is the main authority who can provide direct membership for normal people (Citizen Level) and members in organization (Organization Level)
4. Volunteers- This section of stakeholders provides the data entry of members who donated their blood organ which is used for cross check and verifications.

QUALITY CRITERIA

The software runs with the help of security of RDBMS and robustness and security of JAVA. Organ & Blood Donation software provides a best graphical user interface with high performance for best outputs.

RISKS

////\* Be sure to mention any risks, so that any re-planning (when some of the risks turn into real problems) doesn't come as a surprise later.

PROJECT PLANNING

////\* The *Project Planning*is the chapter that defines how/when we intend to do the project.

PROCESS

////\* Mention the process you will apply, either by referring to a defined method (like Scrum) or to a document describing your own custom process.

MILESTONES

////\* Name any specific dates and (if known at this stage) what you expect to be delivering. Regular iterations/releases might be mentioned here.

DEPENDENCIES

The project requires some connection drivers and GUI files which used to connect between software front-end and MySQL Database Server and provide elegant user interface.

ASSUMPTIONS

////\* Make any assumptions explicit, like the availability of a customer stakeholder, or the availability of graphic designs.

CHANGE MANAGEMENT

////\* Define how you're going to cope with changes during the project. This is part of the defined process, but it deserves to be mentioned explicitly.

MODULES

The software development is divided into 4 parts among 4 members of the group on the base of coding pages. There will be around 22 pages in the software where each member will have around 5-7 java file is to be created with GUI.