**Software Requirements Specification**

for

S5 DBMS Course Project

# Web Application for Social Service

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   4. **Introduction**

### Purpose

The purpose of this document is to present a detailed description of our project, a web application for social activities like fundraising, blood donation, social drives, etc. It will explain the purpose and features of the application, the interface of the application, what the application will do, the constraints under which it must operate. This document is a part of the DBMS course project.

### Product scope

The project aims to develop a fully functional and user interactive online portal which can act as a helping hand to the society. This product is a web application where logged in users can search for blood donors, within the portal, volunteer for social initiatives, raise funds, etc. The portal also provides users the opportunity to publish fund raising programmes and details of people and organisations seeking help, once the admin verifies the authenticity. This is achieved through the maintenance of a database containing the details of users including blood group, questionnaire regarding their willingness to participate for notified events, contact details, etc. `our project is expected to have a very user-friendly interface. We are utilizing powerful database management, data retrieval and data manipulation to implement our objective.

**1.3. *Intended audience***

. This project will be implemented under the guidance of course faculty, and is useful for the society as a whole.

### 1.4. References

* IEEE SRS Format
* Fundamentals of database systems by Ramez Elmarsi and Shamkant B. Navathe

## Overall Description

### Product perspective

This system will consist of a web application which will act as a platform to serve the society. Since this is a data-centric product it will need somewhere to store the data. For that, a database will be used. The web application will communicate with the database. The application will use the database to get data as well as add and modify the data. All of the database communication will be under the supervision of web admin. It is designed as a secured system, which can be accessed by any authenticated user. This system restricts access to its various components, to users with varied characteristics.

### Product functions

The system provides the following functions. The functions depend on the user’s level and permission as explained in the user characteristics.

* User Registration
* Login for already registered users
* Search for Blood donors with filters based on location
* View fund raising events and their details
* Sign up for social events
* View your Profile

### User classes

There are three types of users that interact with the system:

* Users who which to register for blood donation and other social activities
* Users who have already registered and wish to view profile or contribute funds
* Casual visitors who can just view the social awareness programs or fund the campaigns

### Operating Environment

Operating environment for the Automated punching system is as listed below.

Database : MySQL Client/server system Operating system: Linux. HTML/ CSS

Platform: PHP

### Design and Implementation Constraints

Capacity of the database

Need for yearly updation of the databases

Reliability of the server

### User documentation

A user manual will be provided with the product.

## Specific requirements

This section contains the functional and quality requirements of the system.

### User interfaces

The first page of the web interface gives the user an option to either register to the portal or login if already registered. There will be options for searching in the database of registered users. There will be a link to raise funds which will redirect to a new page. It will also have some information about the social awareness programs happening around. The other page will have options for donating funds to the various social campaigns which will be listed in the page.

### Hardware interfaces

Since the web application does not have any designated hardware, it does not have any direct hardware interface.

### Software interfaces

The communication between the database and the web application consists of operation concerning both reading and modifying the data.