**SOFTWARE REQUIREMENTS SPECIFICATION** (SRS DOCUMENT)

**For**

**<Blood Bank Management System>** version 1.0

**By**

**Name: Atika**

**Roll no: 2225165006**

**Class: software engineering**

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**Section: A**

**Supervisor**

**Ms. Ayesha Rafiq**

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**Lahore College for Women's University**

**Table of contents:**

1. **Introduction ………………………………………………………….1**
   1. Purpose……………………………………………………….….1
   2. Document convention ………………………………………..….1
   3. Intended audience and reading suggestions………………….…..1
   4. Project scope……………………………………………….….....1
   5. Reference………………………………………………………...1
2. **General description …………………………………………………..1**
   1. project perspective……………………………………...………...2
   2. project functions…………………………………….......…….....2
   3. User classes and characteristics…………………….………….....3
   4. Assumption and dependency………………………………….....3
3. **Requirement gathering**
   1. User requirements……………………………………………...…3
4. **System requirements………………………………………………....3**
   1. Hardware requirements…………………………………………...3

4.2 Software requirements…………………………………………....3

1. **Functional requirements……………………………………………..3**
2. **Non Functional requirements……………………………………..…4**
   1. Safety requirement…………………………………………..……4
   2. Security Requirements……………………………………..……..4

**Revision history:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Date** | **Reason for change** | **Version** |
|  |  |  |  |
|  |  |  |  |

**1. INTRODUCTION:**

1

* This system is developed to handle the daily transaction of the blood bank and we can see detail when required.
* It also registers the detail of donors, blood collection as well as blood disused reports.

**1.1 PURPOSE:**

* The blood bank management system is designed for several blood banks that help to manage the records of blood donors or requesters and also help the users to quickly find the blood.

**1.2 DOCUMENT CONVENTION:**

* I use time new Roman font which is easily read by the author. The heading is in 16 pt. font and the body is in 14 pt.

**1.3 INTENDED AUDIENCE AND READING**

**SUGGESTIONS:**

* Anybody can use this bank management as a donor requester hospital or blood bank employ
* Donors (who donate blood)
* Requester(who need blood)

**1.4 PROJECT SCOPE:**

* This system can be used by many blood banks. it can manage all the requirements of the blood bank like:
* Donor details
* Admin details
* Requester details
* Stock details
* Blood bank details

**1.5 REFERENCES**

* http://www.bharatbloodbank.com
* http://www.lionbloodbank.net/

**2. GENERAL DESCRIPTION**

**2.1 PROJECT PERSPECTIVE:**

2

* To provide an efficient donor and manage the stoke of blood details.
* Inform the blood bank staff about the amount of blood and when the blood stoke has expired.

**2.2 PRODUCT FUNCTIONS:**

|  |  |  |
| --- | --- | --- |
| Class of Use Case | Use Case | Description |
| Use case related to system authorization and system administrator | 1. admin login  2. change password admin | 1. login admin to the system  2. Admin can change the admin password. |
| Use case related to donor registration | 1. Donors can register by themselves.  2. Admin can register the donor. | 1. Store the personal and medical detail of the donor.  2. Store the personal and medical detail of the donor. |
| Use case related to the authorization of the donor | 1. Donor Login  2. change donor password | 1. Login donor into the system  2. Change the donor password of the system. |
| Use case related to changing donor registration detail. | 1. change personal or medical detail by himself  2. Change personal or medical detail by admin | 1. Change the personal or medical detail of the donor  2. change the personal or medical detail of the donor |
| Use case related to withdrawing name from the donor list | 1. Withdraw by donor  2. Withdraw by admin | 1. Withdraw donor registration |
| Use case related to the blood donation detail | 1. send donation details | 1. Send and save details of blood donated by the donor. |
| Use case related to requester registration | 1. Requester can register by himself.  2. Admin can register the requester. | 1. Store the personal and medical detail of the requester.  2. Store the personal and medical detail of the requester. |
| Use case related to the authorization of the requester, | 1. requester login  2. change the requester password | 1. Login requester into the system  2. Change the requester password of the system. |
| Use case related to withdrawing name from requester list | 1. Withdraw by a requester  2. Withdraw by admin | 1. Withdraw requester registration |
| Use case related to blood request detail | 1. request for blood | 1. request of blood approved by admin |
| Use case related to the access the database | Search relevant details from the database. | Search and display relevant details from the database. |

**2.3 USER CLASSES AMD CHARACTERISTICS:**

3

* System users
* Admin
* Donor
* Requester
* Donors and requesters can easily register to the system, requesters can request filling some simple questions in the English language. When the request is accepted system can inform the requester by Email or SMS message.

**2.4 ASSUMPTION AND DEPENDENCY:**

* Every donor and requester must have a mobile phone.
* The donor or requester doesn’t submit any fake reports.
* The requester can get only the available blood type.

**3. Requirement gathering**

**3.1 User requirements:**

* When a donors log in, the system will provide another interface with commands.
* Change login password.
* Change contact details.
* It can donate or get blood
* Withdraw the name from the system.

**4. System requirements:**

**4.1. Hardware requirements:**

* + 1. High processor or 1GHz 2) 521 MB RAM 3) Hard disk of 500MB

**4.2 Software requirements:**

Dept. of CEA, GLAU, Mathura

**5. Functional requirements:**

* Admin Login
* Blood Donor
* Admin can change the login password.

4

* Register the donor by himself.
* Register donors by system admin.
* Donor login.
* Change the login pass of the donor.
* Change the personal, contact detail by donor or admin.
* Withdraw system by donor or admin.
* Admin logout.
* Send blood donation detail to the donor.
* Save all the details.

**6. Non Functional requirements.**

**6.1 Safety requirement.**

* Stored blood reports must maintain on daily bases.
* The date also maintains when the blood is stored.

**6.2 Security Requirements:**

* The system uses SSL in all transaction that includes the customer interface.
* The system automatically logs out all customers after a period of inactivity.