**ONLINE BLOOD BANK SYSTEM**

**Business Requirements Document**

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# Introduction

## Purpose of this document

The purpose of the detail design document is to define the detailed design for all the components of Online Blood Bank system that are specified in the Business Requirement/Use case document. All the low level components, interfaces and integrations are detailed out in this document.

## Project Overview

Online Blood Bank System used to maintain details of day-to-day blood request activities & records of blood request details, donors and users. We make use of a database to provide the required details, instead of using an excel sheet. The project is developed with the aim to maintain the day-to-day state of user-registration, request blood details information, list of donors. Posting of blood requirement in home page by any registered user ,If the user requesting blood is not available The main intent of this project is to simplify this process and also provides excellent security of data at every level of user-system interaction and also provides robust & reliable storage and backup facilities.

## Scope

### In scope

* Create and maintain user information.
* Create and maintain user Login information
* Create and maintain request blood details.
* Maintain Blood Donation information.
* Create and post the request blood details in home page.

### Out Scope

* Slot availability
* Page for FAQ for donating blood.

## Intended Audience

* All associates going for the initial study at new accounts/projects.
* Associates preparing the white papers/proposals for these accounts/projects.
* Delivery Assurance Group, Process Engineering group

## Constraints, Assumptions and Dependencies

**Assumptions**:

* Once the application is built the global will manually load the current employee list into the system.
* There will be no concurrent users for the application. The patient profile will be maintained by the Receptionist.
* Any changes to the requirements mentioned in the BRD would be taken as a Change Request.

**Dependencies**:

* N/A

**Constraints**:

1. **Schedule constraints**.

N/A

1. **Resource constraints.**

N/A

1. **Technical constraints.**

N/A

## Definition & Acronyms

|  |  |
| --- | --- |
| **Acronyms** | **Definitions** |
| OBBS | Online Blood Bank System |

# 2.0 Organization Architecture

## 2.1 RED CROSS

This table provides a view of the client organization as it applies to this application development project.

|  |  |  |  |
| --- | --- | --- | --- |
| Name & Position | Primary Responsibilities  (relative to project) | Module | Primary Responsibilities  (relative to application business process) |
| Dean | Sponsor | Online Blood Bank System | Laying down Blood Bank policies |
| Receptionist | End users of the system who make entries of blood request details into the system | ADD & VIEW the blood request detail |  |

# Business Process Analysis

## 3.1 Current Scenario

As per the current process, Receptionist adds new patients and assigns it to the doctors manually. Receptionist makes an appointment for the patient with the doctor using excel sheets. Since lot of manual workflow is involved, its takes lot of time for receptionist and is less secure.

So new system is required to minimize work involved in Appointment creation process.

### ‘As-is’ Process Flow

Enter request details

Search for donors

Post details in home page

Display results

# Process Definitions

## Business Rules

Business rules should be defined using the following attributes:-

* Business rule could be either a term or a constraint.
* Business rule could be a statement that defines or constraints key aspect of the business
* Business rule should be 'atomic' so that it cannot be broken down or decomposed further into more detailed business rules

|  | **Rule Name** | **Definition** |
| --- | --- | --- |
| 1 | Mandatory User Fields | The system should check if the following information are being entered while adding/editing a new Patient   * First Name * Last Name * Age * Contact Number * Weight * State * Area * Gender * Email * Password * Pincode * BloodGroup   Appropriate message should be thrown as an alert. |
| 2 | Business Validation | While Adding a User details, the system should not allow the entry of user to the next step without validation.  Appropriate message should be thrown as an alert. |
| 3 | Mandatory request Fields | The system should check if the following information are being entered while adding a new Blood Request.   * BloodGroup * Pincode * State * Area * ContactNumber   Appropriate message should be thrown as an alert. |
| 4 | Mandatory Donor Fields | The system should check if the following information are available in Donor   * DonorName * BloodGroup * Contact Number * Area * State * Pincode   Appropriate message should be thrown as an alert. |

# High Level Business Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SNO | Business Requirement ID | Short Description | Description in detail | Interacting Business Processes |
| 1 | BR001 | Home Page | Home page should have some information why Blood donation is required and options for login | NA |
| 2 | BR002 | User Registration | Ability of the system to procure the fundamental details of the User/admin | N/A |
| 3 | BR003 | User Authentication | Ability of the system to authenticate the user credentials of the registered user | N/A |
| 4 | BR004 | Blood Availability | Ability of the system to allow requestor to request for the required blood and unit | N/A |
| 5 | BR005 | Blood Requirement Posting | Ability of the system to display details of blood requirement | N/A |

# Detailed Business Requirements

| SNO | Req. # | Business Requirement | Req. Type \* | Priority \*\* | Originator \*\*\* | BR Traced to Business Requirement/ Use case ID |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | BR001 | Home page should have some information on blood bank and the login /registration option | UI | 1 | NA | NA |
| 2 | BR002 | When the user clicks on the registration link, it should re-direct to registration form.   * First Name * Last Name * Age * Gender * Contact Number * Email * Password * Weight * State * Area * Pin code * Blood Group.   Post-successful field level validation, save the information in the database  Upon saving the information in the database, display the message ‘New user created successfully’. | UI | 1 | NA | N/A |
| 3 | BR003 | A registered user – is able to click ‘Login’ link, after keying in ‘User ID’ & ‘Password’ field and get his credentials authenticated with the existing database entry.  If a registered user – is unable to login and get the credentials authenticated, the user is presented with relevant error messages:  Invalid User ID (or)  Incorrect Password | F | 1 | NA | N/A |
| 4 | BR004 | To check the availability of blood, a particular user has to fill in the following mandatory details: State, Area, Pin code and Blood Group and click on ‘search’ button.  On clicking the ‘search’ button, the database is searched for the given details.  If there are no search result, the user will be asked to confirm whether he/she wants to post his/her requirement details on the home page.  On confirming, the requirement form will be displayed on the home page. | F | 1 | NA | N/A |
| 5 | BR005 | In case a registered user can’t find the blood of his/her specific requirements, he/she can fill in the following mandatory details: State, Area, Pin code and Blood Group and submit the details for finding an appropriate donor.  On clicking ‘submit’, the blood requirement details will be displayed on the home page and can be viewed by any site visitor.  Post-successful field level validation, save the information in the database  Upon saving the information in the database, display the message ‘Your blood requirements are posted successfully on the home page’. | F | 1 | NA | N/A |

\* Req. Type

F Core Functionality,

E Exception,

UI User Interface

R Reporting

\*\* Priority of Requirement

1=Base Functionality

2=Advanced Functionality

3=Additional Opportunities

\*\* Originator

Name of the business process of the system/ department or function name in the customer organization

# Objective and Expectation Traceability

## Business Objective Traceability Matrix

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Business Objective | Business Requirement Number | Priority | Requirement Title | How requirement satisfies objective | Status |
| To maintain the user details in the application | 1 | High | User Authentication | Allow the user to login | Open |
| To search blood request and post request on home page if donor not found | 2 | High | Blood availability and blood requirement posting | Allow the user to search donors and post blood request on home page |  |

# References

N/A

# Change Log

# N/A