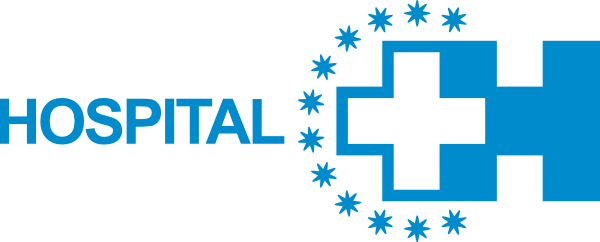
**HOSPITAL MANAGEMENT SYSTEM**

**Business Requirements Document**

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| --- | --- | --- | --- |
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# Introduction

## Purpose of this document

This document is aimed at

* Providing the necessary inputs to the detailed requirements gathering phase and further on for the SDLC processes.
* This document also serves to establish the traceability between the Business Objectives and the requirements identified in the proposed solution and how they satisfy the stated objectives.
* Provide expectation traceability in terms of the requirements and the user expectation
* Serves as a formal template for documenting the Business Requirements which also includes statutory and regulatory requirements.

## Project Overview

Hospitals need to keep track of their day-to-day activities & records of its patients, doctors and other staff personnel that keep the hospital running smoothly & successfully.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 admission/discharge of patients, list of doctors, department information. 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 patient admission information.
* Create and maintain doctor information
* Create department information and mapping doctors and patients

to their department.

* Scheduling the appointment of patient with doctors.
* Searching and retrieving patient details.

### Out Scope

* Migration of current patient list into the application
* Notification process

## 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** |
|  |  |

# 2.0 Organization Architecture

# Organization Architecture

## 2.1 GLOBAL Hospital

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 | Hospital Management System | Laying down Hospital policies |
| Receptionist | End users of the system who make entries of patient details into the system | ADD/DELETE/ VIEW patient with their Department Details    Create appointments and maintain Status Report |  |

## 2.2      ABC

|  |  |  |  |
| --- | --- | --- | --- |
| Name & Position | Primary Responsibilities  (relative to project) | Module | Primary Responsibilities  (relative to application business process) |
| Delivery Manager | Responsible for timely delivery of project | Hospital Management System | Laying down HR Policies |
| Architect | Defining the architecture and design of the system | Hospital Management System | Setting down the rules |
|  |  |  |  |

# 

# 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



# 

Fix Appointments

View Doctor & Department details

Search patient status

Enter patient details

# 

Edit patient details

View Appointments

Delete patient details

dela

# 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 Patient Fields | The system should check if the following information are being entered while adding/editing a new Patient   * Patient Name * Patient ID * Age * Phone Number * Status * Department ID * Gender   Appropriate message should be thrown as an alert. |
| 2 | Business Validation | While Adding a Patient the system should not allow the entry of Patient without assigned Doctor ID.  Appropriate message should be thrown as an alert. |
| 3 | Mandatory Department Fields | The system should check if the following information are being entered while adding a new Department   * Department Name   Appropriate message should be thrown as an alert. |
| 4 | Mandatory Doctor Fields | The system should check if the following information are being entered while adding/editing a new Doctor   * Doctor Name * Doctor ID * Contact Number * Department ID   Appropriate message should be thrown as an alert. |
| 5 | Mandatory Appointment Fields | The system should check if the following information are being entered while adding a new appointment   * Patient ID * Patient name * Doctor ID. * Appointment date   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 | Login with different roles User, Admin | There should be provision to login as User or as Admin | NA |
| 2 | BR002 | Add Patient | Add screen should allow the User to enter the Patient details | N/A |
| 3 | BR003 | View Patient | A view screen where the User can see the entire Patient list in the Hospital | N/A |
| 4 | BR004 | Edit Patient | User should be allowed to Edit any Patient listed in the View screen.  Edit screen should allow the User to edit the Patient details | N/A |
| 5 | BR005 | Delete Patient | User should be allowed to delete the required Patient. | N/A |
| 6 | BR006 | View Department | A view screen where the Admin can view the department list | N/A |
| 7 | BR007 | Add Department | Add screen should allow the Admin to enter the Department details for the Department. | N/A |
| 8 | BR008 | Create Appointment | Should allow User to create a new Appointment and map it to the department. | N/A |
| 9 | BR009 | View Appointment | Should allow User to view Appointments which are already created. | N/A |
| 10 | BR010 | Add Doctor | Add screen should allow the Admin to enter the doctor details | N/A |
| 11 | BR011 | View Doctor | A view screen where the User/Admin can see the entire Doctor list in the Hospital |  |

# Detailed Business Requirements

| SNO | Req. # | Business Requirement | Req. Type \* | Priority \*\* | Originator \*\*\* | BR Traced to Business Requirement/ Use case ID |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | BR001 | Provision to login with two different roles namely Admin/ User.  View, Add, Edit patient details, Add doctor and Add Department operations must be permitted when logged in as Admin.  When logged in as User, View patient details, Create and View Appointment must be permitted | F | 1 | Hospital  Management Portal | NA |
| 2 | BR002 | From Console user should be allowed to enter the following details for the patient   * Patient ID * Patient Name * Age * Phone Number * Status * DepartmentID * Gender | F | 1 | Hospital  Management Portal | N/A |
| 3 | BR003 | In Console, where the user can see the entire patient list in the hospital. The console must capture the following information   * Patient ID * Patient Name * Age * Phone Number * Status * DepartmentID * Gender | F | 1 | Hospital Management Portal | N/A |
| 4 | BR004 | In Console, user should be allowed to Edit any employee  Console should allow the user to edit the following details   * Patient ID * Patient Name * Age * Phone Number * Status * DepartmentID * Gender | F | 1 | Hospital  Management Portal | N/A |
| 5 | BR005 | From Console, user should be allowed to delete the required Patient. | F | 1 | Hospital Management Portal | N/A |
| 6 | BR006 | From Console, should allow the Admin to enter the following details for the Department   * Department ID * Department Name | F | 1 | Hospital Management Portal | N/A |
| 7 | BR007 | From Console, Admin can view the department list. The Console must capture the following information   * Department Id * Department Name | F | 1 | Hospital Management Portal | N/A |
| 8 | BR008 | From Console, User should be allowed to create a new Appointment. It should capture the following fields.   * Patient ID * Patient name * Doctor ID. * Appointment date | F | 1 | Appointment  Fixing | N/A |
| 9 | BR009 | From console, User Should allow to View the Appointments. It should display the following fields.   * Patient ID * Patient name * Doctor ID. * Appointment date | F | 1 | Appointment  Fixing | N/A |
| 10 | BR010 | From Console Admin should be allowed to enter the following details for the doctor   * Doctor Name * Doctor ID * Contact Number * Department ID | F | 1 | Appointment  Fixing | N/A |
| 11 | BR011 | In console, the Admin can see the entire Doctor list in the Hospital. . It should display the following fields.   * Doctor Name * Doctor ID * Contact Number * Department ID | F | 1 |  | 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 patient details in the application | 1 | High | Hospital Management  Portal | Allow the user to maintain the patient details effectively | Open |
| To fix the appointments | 2 | High | Appointment  Fixing | Allow the user to create and track the new  Appointments |  |

# References

N/A

# Change Log

# N/A