Hospital Management System

Business Requirements Document

V1.0

	Prepared By / Last Updated By	Reviewed By	Approved By
Name	Cognizant Academy		
Role			
Signature			
Date			

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1.0 Introduction

1.1   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.

The purpose of this document is to systematically capture requirements for the project and the system to be developed. Functional requirements are captured in this document. It also serves as the input for the project scoping.

1.2   Project Overview

1.2.1   Objectives

Below are the objectives that shall be fulfilled post the execution of this project:

Hospital Management system is a system used for enabling enrollment of patient, add physician, search for physician, update diagnosis details and view Patient history.

- Enroll Patient – Hospital Administrators to register a Patient into the system. The administrator should have the details of the patient to be entered into the system.

- Add Physician - Hospital Administrators to save the Physician details into the system.

- Physician Search - Hospital Administrators to search for Physician based on specified search criteria

- Patient Diagnosis Details - by Hospital Administrators to save the patients diagnosis details into the system.

- View Patient History - Administrator wishes to view the patient case history details

1.3   Intended Audience

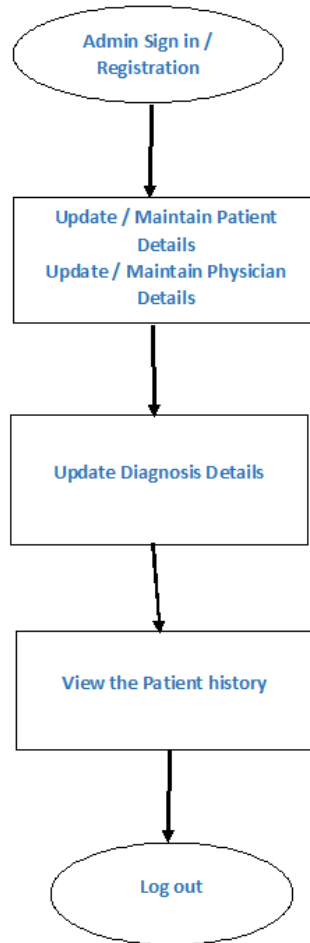- All member of the project.

- Delivery Assurance Group.

2.0 Process Architecture

Below is the overall functional flow of the project including the components of interaction

- Create Admin Registration page & Authentication.

- Get and manage Patient details.

- Get and manage Physician details.

- Physician search.

- Patient diagnostic details.

- View Patient history.

- Disconnect on log off.

3.0 High Level Business Requirements

Note - Primary focus is to complete developing the critical requirements (highlighted in Yellow) and then to proceed with the remaining requirements.

S.No.	Business Requirement ID	Short Description	Description in detail	Interacting Business Processes
1	Req_1	Admin Registration	Ability of the system to procure the fundamental details of the Admin	
2	Req_2	Admin Authentication	Ability of the system to authenticate the credentials of the registered Admin	
3	Req_3	Create Patient records	Ability of the system to authenticate the credentials of the registered Admin	
4	Req_4	Create Physician Records	Ability of the system to create Contract. Update Terms and conditions of contract.	

5	Req_5	Search Physician	Ability of the system to set amenities for the created contract.	
6	Req_6	Patient Diagnosis Details	Ability of the system to update the Patient Diagnosis details	
7	Req_7	View Patient History	Ability of the system to view Patient History	
8	Req_8	Admin logoff	Ability of the system to enable Admin to logoff	

4.0 Detailed Business Requirements

4.1 Functional Requirements

The Requirements in this document are prioritized as follows:

Value	Rating	Description
1	Critical	This requirement is critical to the success of the project. The project will not be possible without this requirement.
2	High	This requirement is high priority, but the project can be implemented at a bare minimum without this requirement.
3	Medium	This requirement is somewhat important, as it provides some value but the project can proceed without it.
4	Low	This is a low priority requirement, or a "nice to have" feature, if time and cost allow it.
5	Future	This requirement is out of scope for this project, and has been included here for a possible future release.

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_ 1.1	Admin Registration	When the Admin clicks on the registration link, it should re-direct to registration form.	UI	Critical	NA	Req_1	
Req_ 1.2	Admin Registration	Admin needs to fill some of the basic attributes/fields as mentioned below in requirement: First Name, Last Name, Age, Gender, Contact Number, Vendor Id, Password	UI	Critical	NA	Req_1	Please refer to Table 1.0 under References
Req_ 1.3	Admin Registration	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_1	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_ 1.4	Admin Registration	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Medium	NA	Req_1	
Req_ 1.5	Admin Registration	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_1	
Req_ 1.6	Admin Registration	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	E	Medium	NA	Req_1	
Req_ 2.1	Credential Authentication	A registered user – is able click 'Login' link, after keying in 'Admin ID' & 'Password' field and get his credentials authenticated with the existing database entry.	F	Critical	NA	Req_2	
Req_ 3.1	Create Patient records	On clicking "Create Patient Record", it should redirect Admin to the Patient Record Creation Page	UI	Critical	NA	Req_3	
Req_ 3.2	Create Patient records	Admin should be able to update the mandatory fields of the Patient	F	Critical	NA	Req_3	Please refer to Table 2.0 under References
Req_ 3.3	Create Patient records	Clicking 'Submit' should validate the datatype constraints for each field				Req_3	
Req_ 3.4	Create Patient records	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	F	Critical	NA	Req_3	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_ 3.5	Create Patient records	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_3	
Req_ 3.6	Create Patient records	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	F	Critical	NA	Req_3	
Req_ 4.1	Create Physician Records	On clicking "Create Patient Record", it should redirect Admin to the Physician Record Creation Page	UI	Critical	NA	Req_4	
Req_ 4.2	Create Physician Records	Admin should be able to update the mandatory fields of the Physician	F	Critical	NA	Req_4	Please refer to Table 3.0 under References
Req _4.3	Create Physician Records	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_4	
Req _4.4	Create Physician Records	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	F	Critical	NA	Req_4	
Req _4.5	Create Physician Records	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_4	
Req _4.6	Create Physician Records	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	F	Critical	NA	Req_4	
Req_ 5.1	Search Physician	When Admin clicks the link "Search Physician", it should display all the Physicians present in the Database	F	Critical	NA	Req_5	

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Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_ 5.2	Search Physician	When Admin clicks the link "Search Physician", and with specific search criteria, then it should display the list of Physicians satisfying the search criteria.	F	Critical	NA	Req_5	
Req_ 6.1	Patient Diagnosis Details	When Admin clicks "Add Patient Diagnosis Details" link, Admin should be redirected to creation page	F	Critical	NA	Req_6	
Req_ 6.2	Patient Diagnosis Details	Admin should be able to update the mandatory fields of the Physician	F	Critical	NA	Req_6	
Req _6.3	Patient Diagnosis Details	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_6	
Req _6.4	Patient Diagnosis Details	Admin failing to provide information on the mandatory fields be provided with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	F	Critical	NA	Req_6	
Req _6.5	Patient Diagnosis Details	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_6	
Req _6.6	Patient Diagnosis Details	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	F	Critical	NA	Req_6	
Req_ 7.1	View Patient History	When Admin clicks "View Patient History" link, the system should list all the available patient ID and patient name	UI	Critical	NA	Req_7	
Req_ 7.2	View Patient History	On clicking the Patient ID, it should display the Patient History	UI	Critical	NA	Req_7	
Req_ 8.1	Admin Log off	Option to log off from the system.	UI	Critical	NA	Req_8	

5.0 References

5.1 Table 1.0(Admin)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Admin ID	Text(10)	Alphabetic	Yes	System Generated
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male, Female
DoB	Text(10)	Alphanumeric	Yes	
Contact Number	Text(10)	Numeric	Yes	
Alt Contact Number	Text(10)	Numeric	No	
Email ID	Text(50)	Alphanumeric	Yes	

5.2 Table 2.0(Patient)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Patient ID	Text(10)	Alphanumeric	Yes	System Generated
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male, Female
DoB	Text(10)	Alphanumeric	Yes	
Contact Number	Text(10)	Numeric	Yes	
Alt Contact Number	Text(10)	Numeric	No	
Email ID	Text(50)	Alphanumeric	Yes	
Password	Text(15)	Alphanumeric	Yes	
Address Line 1	Text(100)	Alphanumeric	Yes	
Address Line 1	Text(100)	Alphabetic	Yes	
City	Text(50)	Alphabetic	Yes	
State	Text(50)	Alphabetic	Yes	
Zip Code	Text(10)	Numeric	Yes	

5.3 Table 3.0(Physician)

Field Name	Field Type	Data Type	Mandatory	Possible Values

Field Name	Field Type	Data Type	Mandatory	Possible Values
Physician ID	Text(10)	Alphanumeric	Yes	System Generated
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male, Female
DoB	Text(10)	Alphanumeric	No	
Contact Number	Text(10)	Numeric	Yes	
Alt Contact Number	Text(10)	Numeric	No	
Email ID	Text(50)	Alphanumeric	Yes	
Password	Text(15)	Alphanumeric	Yes	
Address Line 1	Text(100)	Alphanumeric	Yes	
Address Line 2	Text(100)	Alphabetic	No	
City	Text(50)	Alphabetic	Yes	
State	Text(50)	Alphabetic	Yes	
Zip Code	Text(10)	Numeric	Yes	
Degree	Text(50)	Alphabetic	Yes	
Specialty	Text(50)	Alphabetic	Yes	
Work hours	Drop down	NA	Yes	
Hospital/Clinic Name	Text(100)	Alphanumeric	Yes	

5.4   Table 4.0(Diagnosis Details)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Report ID	Numeric(10)	Numeric	Yes	System Generated
Patient ID	Text(10)	Alphanumeric	Yes	System Generated
Physician ID	Text(10)	Alphanumeric	Yes	System Generated
Service date	Text(10)	Alphanumeric	Yes	
Test Result date	Text(10)	Alphanumeric	Yes	
Diag 1 – Actual Value	Numeric(10)	Numeric	Yes	
Diag 1 – Normal Range	Numeric(10)	Numeric	Yes	
Diag 2 – Actual Value	Numeric(10)	Numeric	No	
Diag 2 – Normal Range	Numeric(10)	Numeric	No	

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Diag 3 – Actual Value	Numeric(10)	Numeric	No	
Diag 3 – Normal Range	Numeric(10)	Numeric	No	
Diag 4 – Actual Value	Numeric(10)	Numeric	No	
Diag 4 – Normal Range	Numeric(10)	Numeric	No	
Diag 5 – Actual Value	Numeric(10)	Numeric	No	
Diag 5 – Normal Range	Numeric(10)	Numeric	No	
Diag 6 – Actual Value	Numeric(10)	Numeric	No	
Diag 6 – Normal Range	Numeric(10)	Numeric	No	
Physician Comments	Text(300)	Alphabetic	Yes	
Other info	Text(300)	Alphabetic	No	

6.0 Terms & Conditions

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7.0 Change Log

Version Number	Changes Made			
V1.0.0	Initial baseline created on 6/02/2019 by Manonmani Guruswamy			
Vx.y.z	<Please refer the configuration control tool / change item status form if the details of changes are maintained separately. If not, the template given below needs to be followed>			
	Section No.	**Changed By**	**Effective Date**	**Changes Effected**