



# Patient Tracker

## Business Requirements Document

### V1.0

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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:

Patient Tracker is a system used for maintaining Clerk, doctor, patient, medicine information and Prescription of the patients. This will create the bill for Patients

## 1.3 Intended Audience

- All member of the project.
- Delivery Assurance Group.

# 2.0 Process Architecture

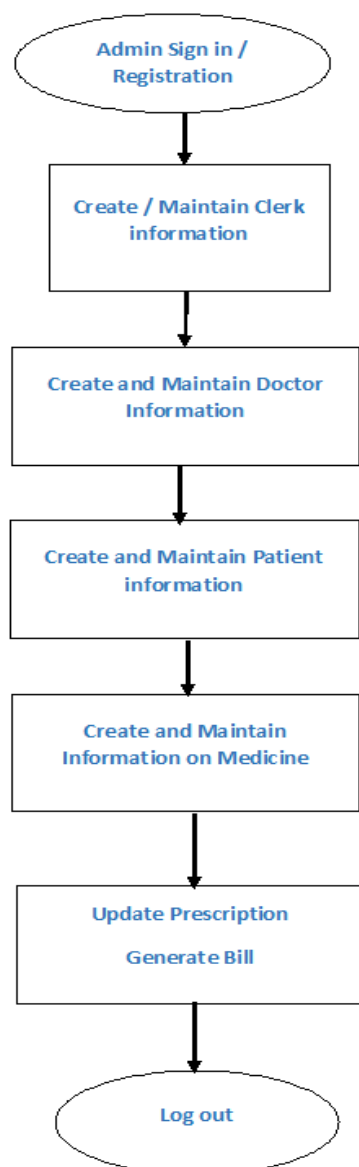
Below is the overall functional flow of the project including the components of interaction

- Create Admin Registration page & Authentication.



- Create and maintain clerk information.
- Create and maintain doctor information
- Create and maintain patient information.
- Create and maintain medicine information
- Create Prescription for patients.
- Create Bill for Patients.
- Disconnect on log off.

Admin Process flow



## 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	Add / maintain Clerk info	Ability of the system to authenticate the Supplier credentials of the registered Supplier	
4	Req_4	Add / Maintain Doctor info	Ability of the system to procure the fundamental details of the Admin	
5	Req_5	Add / Maintain Patient info	Ability of the system to authenticate the credentials of the registered Admin	
6	Req_6	Add and Maintain Medicine info	Ability of the system to create Contract. Update Terms and conditions of contract.	
7	Req_7	Update Patients Prescription	Ability of the system to set amenities for the created contract.	
8	Req_8	Create Bill for Patients	Ability of the system to submit the created contract.	
9	Req_9	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. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
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, Admin 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_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	Add / Maintain Clerk Details	On clicking "Clerk Details", it should redirect to the Page listing Available Clerks	UI	Critical	NA	Req_3	
Req_3.2	Add / Maintain Clerk Details	On clicking Add Clerk it should redirect to Clerk record creation page	F	Critical	NA	Req_3	Please refer to Table 2.0 under References

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_3.3	Add / Maintain Clerk Details	Admin should be able to update the mandatory fields of the Clerk	F	Critical	NA	Req_3	
Req_3.4	Add / Maintain Clerk Details	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_3	
Req_3.5	Add / Maintain Clerk 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_3	
Req_3.6	Add / Maintain Clerk Details	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_3	
Req_3.7	Add / Maintain Clerk Details	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	F	Critical	NA	Req_3	
Req_3.8	Add / Maintain Clerk Details	From Clerk Information page, on clicking the Clerk ID, the details of the Clerk should be displayed	F	Critical	NA	Req_3	
Req_3.9	Add / Maintain Clerk Details	Admin on clicking Edit option should be able to edit the Clerk Record and save it	F	Critical	NA	Req_3	
Req_4.1	Add / Maintain Doctor Details	On clicking "Doctor Details", it should redirect to the Page listing Available Doctors	UI	Critical	NA	Req_4	
Req_4.2	Add / Maintain Doctor Details	On clicking Add Doctor it should redirect to Doctor record creation page	F	Critical	NA	Req_4	Please refer to Table 3.0 under References
Req_4.3	Add / Maintain Doctor Details	Admin should be able to update the mandatory fields of the Doctor	F	Critical	NA	Req_4	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_4.4	Add / Maintain Doctor Details	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_4	
Req_4.5	Add / Maintain Doctor 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_4	
Req_4.6	Add / Maintain Doctor Details	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_4	
Req_4.7	Add / Maintain Doctor Details	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	F	Critical	NA	Req_4	
Req_4.8	Add / Maintain Doctor Details	From Doctor Information page, on clicking the Doctor ID, the details of the Doctor should be displayed	F	Critical	NA	Req_4	
Req_4.9	Add / Maintain Doctor Details	Admin on clicking Edit option should be able to edit the Doctor Record and save it	F	Critical	NA	Req_4	
Req_5.1	Add / Maintain Patient Details	On clicking "Patient Details", it should redirect to the Page listing Available Patients	UI	Critical	NA	Req_5	
Req_5.2	Add / Maintain Patient Details	On clicking Add Patient it should redirect to Patient record creation page	F	Critical	NA	Req_5	Please refer to Table 4.0 under References
Req_5.3	Add / Maintain Patient Details	Admin should be able to update the mandatory fields of the Patient	F	Critical	NA	Req_5	
Req_5.4	Add / Maintain Patient Details	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_5	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_5.5	Add / Maintain Patient 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_5	
Req_5.6	Add / Maintain Patient Details	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_5	
Req_5.7	Add / Maintain Patient Details	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	F	Critical	NA	Req_5	
Req_5.8	Add / Maintain Patient Details	From Patient Information page, on clicking the Patient ID, the details of the Patient should be displayed	F	Critical	NA	Req_5	
Req_5.9	Add / Maintain Patient Details	Admin on clicking Edit option should be able to edit the Patient Record and save it	F	Critical	NA	Req_5	
Req_6.1	Add and Maintain Medicine info	On clicking "Medicine information", it should redirect to the Page listing Available Medicines	UI	Critical	NA	Req_6	
Req_6.2	Add and Maintain Medicine info	On clicking Add Medicine it should redirect to Medicine record creation page	F	Critical	NA	Req_6	
Req_6.3	Add and Maintain Medicine info	Admin should be able to update the mandatory fields of the medicines	F	Critical	NA	Req_6	Please refer to Table 5.0 under References
Req_6.4	Add and Maintain Medicine info	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_6	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_6.5	Add and Maintain Medicine info	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_6.6	Add and Maintain Medicine info	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_6	
Req_6.7	Add and Maintain Medicine info	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	F	Critical	NA	Req_6	
Req_6.8	Add and Maintain Medicine info	From Medicine Information page, on clicking the Medicine ID, the details of Medicine should be displayed	F	Critical	NA	Req_6	
Req_6.9	Add and Maintain Medicine info	Admin on clicking Edit option should be able to edit the Medicine Record and save it	F	Critical	NA	Req_6	
Req_7.1	Update Patients Prescription	Admin should be redirected to Prescription Record creation page on clicking "Create Prescription"	UI	Critical	NA	Req_7	
Req_7.2	Update Patients Prescription	Admin should be able to update the mandatory fields of the Prescription	F	Critical	NA	Req_7	Please refer to Table 6.0 under References
Req_7.3	Update Patients Prescription	Clicking 'Submit' should validate the datatype constraints for each field	F	Critical	NA	Req_7	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Impacted Stakeholders
Req_7.4	Update Patients Prescription	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_7	
Req_7.5	Update Patients Prescription	Post-successful field level validation, save the information in the database	F	Critical	NA	Req_7	
Req_7.6	Update Patients Prescription	Upon saving the information in the database, display the message 'Your details are submitted successfully'.	F	Critical	NA	Req_7	
Req_8.1	Create Bill for Patients	Admin should be redirected to Bill creation page on clicking "Create Bill"	F	Critical	NA	Req_8	
Req_8.2	Create Bill for Patients	In create Bill Page, it should display the Prescriptions outstanding for billing	F	Critical	NA		Please refer to Table 7.0 under References
Req_8.3	Create Bill for Patients	On clicking the Prescription ID, the medicine details, Quantity and Amount should be populated from the DB	F	Critical	NA	Req_8	
Req_8.4	Create Bill for Patients	The Patient details also should be populated	F	Critical	NA	Req_8	
Req_8.5	Create Bill for Patients	Amounts should be summed up and total amount should be displayed	F	Critical	NA	Req_8	
Req_8.6	Create Bill for Patients	Admin should have the option to edit the details	F	Critical	NA	Req_8	
Req_8.7	Create Bill for Patients	When Admin clicks Generate Bill, the Bill details should be updated	F	Critical	NA	Req_8	
Req_8.8	Create Bill for Patients	Status of the Prescription should be updated as Billed	F	Critical	NA	Req_8	
Req_9.1	Supplier / Admin Log off	Option to log off from the system.	UI	Critical	NA	Req_9	

## 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	
Password	Text(15)	Alphanumeric	Yes	

### 5.2 Table 2.0(Clerk)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Clerk 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	No	
Contact Number	Text(10)	Numeric	Yes	
Alt Contact Number	Text(10)	Numeric	No	
Email ID	Text(50)	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(Doctor)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Doctor 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	No	
Contact Number	Text(10)	Numeric	Yes	
Alt Contact Number	Text(10)	Numeric	No	
Email ID	Text(50)	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(Patient)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Patient 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	No	
Contact Number	Text(10)	Numeric	Yes	
Alt Contact Number	Text(10)	Numeric	No	
Email ID	Text(50)	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	

## 5.5 Table 5.0(Medicine)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Medicine ID	Auto-generated(8)	Numeric	Yes	Non-editable system generated
Medicine Description	Text(200)	Alphabetic	Yes	
Cure for	Text(100)	Alphabetic	Yes	
Manufacturing company	Text(50)	Alphabetic	Yes	
Dosage	Numeric(3)	Numeric	Yes	mg
Prescribed for	Text(1)	Alphabetic	Yes	A – Adult C – Children
Amount	Numeric(6)	Numeric	Yes	

## 5.6 Table 6.0(Prescription)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Request ID	Auto-generated(8)	Numeric	Yes	
Patient ID	Text(10)	Alphabetic	Yes	
Doctor ID	Text(10)	Alphabetic	Yes	
Request date	Text(10)	Alphanumeric	Yes	
MedicineID1	Numeric	Numeric	Yes	
Quantity1	Numeric(3)	Numeric	Yes	
MedicineID2	Numeric	Numeric	No	
Quantity2	Numeric(3)	Numeric	No	
MedicineID3	Numeric	Numeric	No	
Quantity3	Numeric(3)	Numeric	No	
MedicineID4	Numeric	Numeric	No	

Quantity4	Numeric(3)	Numeric	No	
MedicineID5	Numeric	Numeric	No	
Quantity5	Numeric(3)	Numeric	No	
Other Info	Text(200)	Alphabetic	No	
Status	Text(1)	Alphabetic	Yes	B-Billed P- Pending bill

## 5.7 Table 7.0(Bill)

Field Name	Field Type	Data Type	Mandatory	Possible Values
Bill ID	Auto-generated(8)	Numeric	Yes	
Patient ID	Text(10)	Alphabetic	Yes	
Doctor ID	Text(10)	Alphabetic	Yes	
Bill date	Text(10)	Alphanumeric	Yes	
MedicineID1	Numeric	Numeric	Yes	
Quantity1	Numeric(3)	Numeric	Yes	
Amount1	Numeric(6)	Numeric	Yes	
MedicineID2	Numeric	Numeric	No	
Quantity2	Numeric(3)	Numeric	No	
Amount2	Numeric(6)	Numeric	Yes	
MedicineID3	Numeric	Numeric	No	
Quantity3	Numeric(3)	Numeric	No	
Amount3	Numeric(6)	Numeric	Yes	
MedicineID4	Numeric	Numeric	No	
Quantity4	Numeric(3)	Numeric	No	
Amount4	Numeric(6)	Numeric	Yes	
MedicineID5	Numeric	Numeric	No	
Quantity5	Numeric(3)	Numeric	No	
Amount5	Numeric(6)	Numeric	Yes	
Total Amount	Numeric(10)	Numeric	Yes	



## 6.0 Terms & Conditions

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## 7.0 Change Log

Version Number	Changes Made			
V1.0.0	Initial baseline created on 7/02/2019 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 Effectuated