



Bill Payment System

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 the requirements of the project and the system to be developed. The document also captures the Functional requirements and serves as an input for the scope of project.

1.2 Project Overview

BPS is a system used for managing various activities such as vendor registration, customer registration, Bill payment etc. in order to facilitate various billing procedures between the vendors and customers.

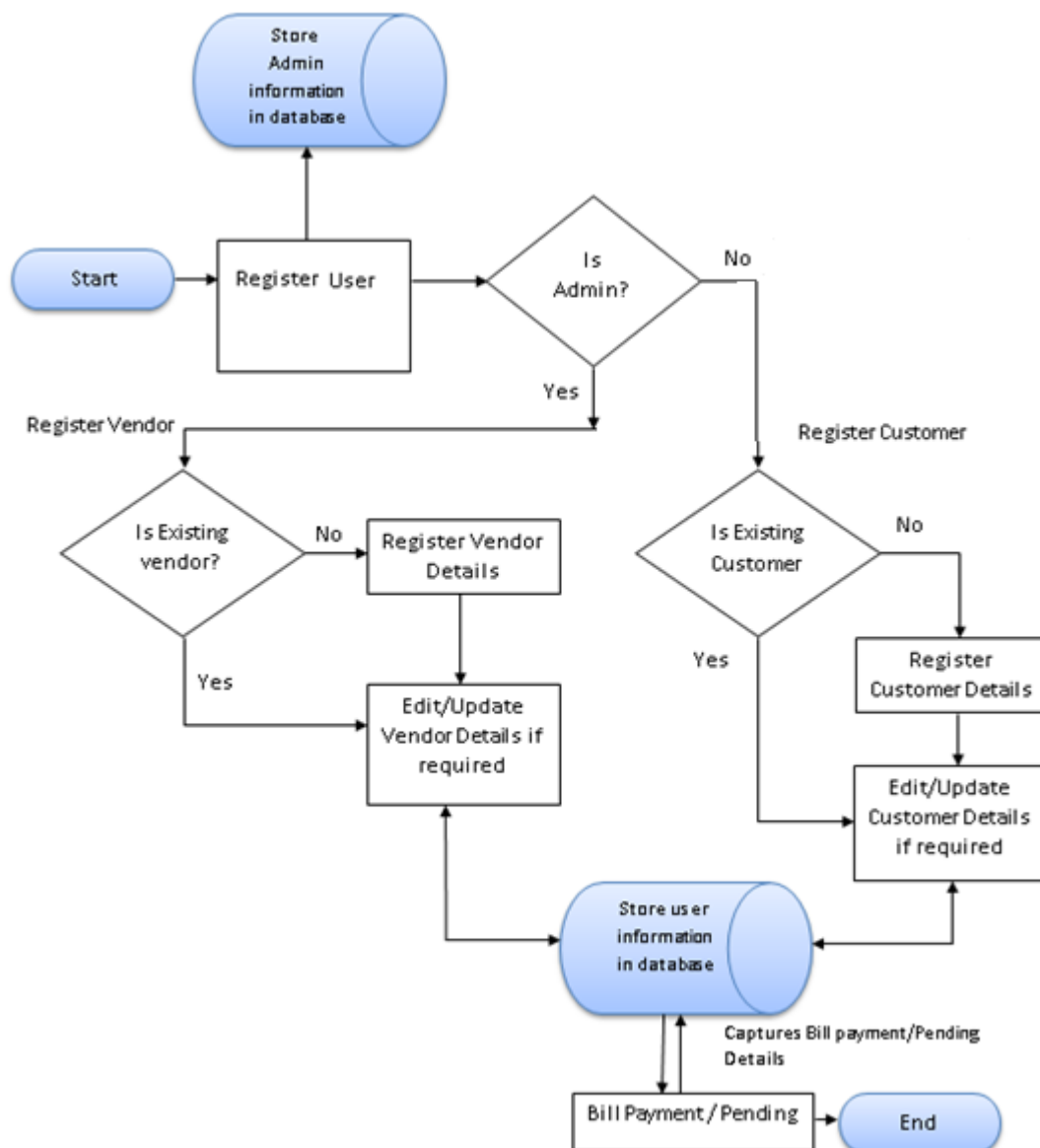
1.2.1 Objectives

- Vendor Registration
- Vendor Updation
- Customer Registration
- Customer Updation
- Bill payment/Pending

1.3 Intended Audience

- Interns/Project Team
- Mentors and SME's
- Delivery assurance/excellence group

2.0 Process Architecture



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	New User Registration	Ability of the portal to procure user data and create new user profiles	
2	REQ-2	User login	Ability of the portal to authenticate and authorize the registered user	
3	REQ-3	Vendor Registration	Allows the vendor to register themselves	
4	REQ-4	Admin	Admin should verify the vendor registration and approve to make the vendor active/deactive	
5	REQ-5	Vendor Update	Allows the vendor to edit, modify or delete the registered vendors available for online bill payments	
5	REQ-5	Bill Mapping	Allows the user to map the different type of bills that is paid online for ease of access next time	
6	REQ-6	Bill Payment	Allows the user to search for specific bill type and make the payment	
7	REQ-7	Help	Page to assist the users to report technical issues	

4.0 Detailed Business Requirements

4.1 Functional Requirements

The functional requirements are projected below, for each of the high level requirements called out in the earlier section

Additionally, the following elements are captured for each business requirement in the table provided below:-

* 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)

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	Remarks
1.01	New User Registration	When the user clicks on the registration link, system should re-direct to registration form and provide two options: Register as Customer Register as Admin	UI	Critical	NA	REQ-1	
1.02	New User Registration	User to fill the basic attributes: First Name Last Name Age Gender Contact Number Email Address PAN Aadhar Number User Id Password	UI	Critical	NA	REQ-1	Please refer Table 1.0 under References section
1.03	New User Registration	Clicking 'Submit' button should validate the datatype constraints for each field.	F	Critical	NA	REQ-1	
1.04	New User Registration	User failing to provide information for the mandatory fields be presented with an alert message – 'Please update the highlighted mandatory field(s).' Also, highlight the missed out field in red	E	Critical	NA	REQ-1	
1.05	New User Registration	Post-successful field validation, save the information in the database	F	Critical	NA	REQ-1	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
1.06	New User Registration	Upon saving the information in the database, display the message "New user created successfully"	E	Medium	NA	REQ-1	
2.01	User login	A registered user – is able click 'Login' link, after keying in 'UserID' & 'Password' field and get his credentials authenticated with the existing database entry.	F	Critical	NA	REQ-2	
2.02	User login	If a registered user – is unable to login and get his credentials authenticated, The user is presented with relevant error messages: Invalid User ID (or) Incorrect Password	F	Critical	NA	REQ-2	
3.01	Vendor Registration	Vendor clicks on the "Register Vendor" button	F	Critical	NA	REQ-3	
3.02	Vendor Registration	Portal to display a form to enter the below details: Name of the Vendor Company Reg. No Vendor Type Address Country State Email Address Contact number Web site Certificate Issued Date Certificate Validity date Year of Establishment	F	Critical	NA	REQ-3	Please refer Table 2.0 under References section
3.03	Vendor Registration	The display form should have buttons to "Register" or "Reset" the fields	F	Critical	NA	REQ-3	
3.04	Vendor Registration	Clicking on Register button should save the details to the database and display the message "Vendor registered successfully"	UI	Critical	NA	REQ-3	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
3.05	Vendor Registration	Clicking "Reset" button should clear all the fields and allow Admin to enter new details	UI	Critical	NA	REQ-3	
4.01	Vendor Activation	Admin On login should be able to view the list of newly registered vendors	UI	Medium	NA	REQ-4	
4.02	Vendor Activation	Admin should be able to view the details of the vendors	UI	Medium	NA	REQ-4	
4.03	Vendor Activation	Admin should be have rights to accept / send for correction/reject any vendor	UI	Medium	NA	REQ-4	
4.04	Vendor Activation	Only on accepting, a vendor gets activated and will be available for user	UI	Medium	NA	REQ-4	
4.05	Vendor Activation	On rejection, a vendor gets de-activated and will not be available for user	UI	Medium	NA	REQ-4	
5.01	Vendor updation	Vendor should be allowed to update the registered vendor details as and when required	UI	Medium	NA	REQ-5	
6.01	User page	User on login should be able to see the available services	UI	Medium	NA	REQ-6	
6.01	User page	User should have search option based on category-bill type/vendor	UI	Medium	NA	REQ-6	
6.01	User page	User on selecting the search criteria, system should list the searched result	UI	Medium	NA	REQ-6	
6.01	User page	User on clicking the required result from the search result, should be able see the bill details.	UI	Medium	NA	REQ-6	

Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
6.01	Bills Mapping	Customer to be provided with option to record the type of bills paid regularly: Electricity Telephone DTH Insurance Tax Credit Card Loan account Others	UI	Medium	NA	REQ-6	Please refer Table 3.0 under References section
6.02	Bills Mapping	Based on the type of bill selected, display a form to procure the required details and store in the Database	UI	Medium	NA	REQ-6	
6.03	Bills Mapping	Validate the entered details and display a message "Details saved successfully"	F	Medium	NA	REQ-6	
6.04	Bills Mapping	Provide an option if the user wants to set reminders to pay the bills	F	Medium	NA	REQ-6	
6.04	Bills Mapping	Allow the user to choose the frequency of reminder and verify user contact information is updated	UI	Medium	NA	REQ-6	
7.01	Bill Payment	User clicks on the option to Pay Bills	UI	Critical	NA	REQ-7	
7.02	Bill Payment	Portal to display a dropdown button to select the type of bill to be paid: Electricity Telephone DTH Insurance Tax Credit Card Loan account Others	F	Critical	NA	REQ-7	Please refer Table 4.0 under References section
7.03	Bill Payment	Post the bill type is selected, Portal to verify the registered/updated information in the Database and the pending amount to be paid.	F	Critical	NA	REQ-7	



Req. #	Rationale Categorization	Business Requirement	Req. Type *	Priority **	Originator ***	BR Traced to Business Requirement / Use case ID	Remarks
7.04	Bill Payment	If the details not are not available in the database display form based on the selected bill type and allow the user to enter the details	F	Critical	NA	REQ-7	
7.05	Bill Payment	User to select the payment method: Credit/Debit Card Internet Banking PayTm Google Pay e-Wallet	UI	Critical	NA	REQ-7	Mock Payment method to be implemented
7.06	Bill Payment	Based on the selected payment type, portal to display the form to enter the required details	UI	Critical	NA	REQ-7	
7.07	Bill Payment	Portal to process the payment through vendor payment gateway	F	Critical	NA	REQ-7	
7.08	Bill Payment	Validate the provided details against the banks and display a message "Bill payment Successful"	F	Critical	NA	REQ-7	
7.09	Bill Payment	If the entered details do not match display message "Enter correct details"	F	Critical	NA	REQ-7	
8.01	Help	Allows the user or vendor to report technical issues	F	Low	NA	REQ-8	

5.0 References

Note: The below listed Table Fields/Values are created for simple reference. Details can be altered (Added/Removed/Modified) as required during the course of project progress to suit the requirements.

5.1 Table 1.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
First Name	Text(50)	Alphabetic	Yes	
Last Name	Text(50)	Alphabetic	Yes	
Age	Numeric(2)	Numeric	Yes	
Gender	Drop Down	NA		Male, Female
Contact	Text(10)	Numeric	No	



Number				
PAN	Text(15)	Alphanumeric	Yes	
Aadhar Number	Text(15)	Alphanumeric	Yes	
UserId	Text(15)	Alphanumeric	Yes	UserId
Password	Text(15)	Alphanumeric	Yes	Password

5.2 Table 2.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Name of the Vendor	Text(50)	Alphabetic	Yes	
Company Reg. No	Text(50)	Alphabetic	Yes	
Vendor Type	Drop Down	NA	Yes	
Address	Drop Down	NA	Yes	
Country	Drop Down	NA	Yes	
State	Drop Down	NA	Yes	
Email Address	Text(15)	Alphanumeric	Yes	
Contact number	Numeric (12)	Numeric	Yes	
Web site	Text(15)	Alphanumeric	Yes	
Certificate Issued Date	Drop Down	NA	Yes	
Certificate Validity date	Drop Down	NA	Yes	
Year of Establishment	Drop Down	NA	Yes	
Payment Gateway	Text(15)	Alphanumeric	Yes	

5.3 Table 3.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Electricity	Text(15)	Alphanumeric	No	

Telephone	Text(15)	Alphanumeric	No	
DTH	Text(15)	Alphanumeric	No	
Insurance	Text(15)	Alphanumeric	No	
Tax	Text(15)	Alphanumeric	No	
Credit Card	Text(15)	Alphanumeric	No	
Loan account	Text(15)	Alphanumeric	No	
Others	Text(15)	Alphanumeric	No	

5.4 Table 4.0

Field Name	Field Type	Data Type	Mandatory	Possible Values
Electricity	Text(15)	Alphanumeric	No	
Telephone	Text(15)	Alphanumeric	No	
DTH	Text(15)	Alphanumeric	No	
Insurance	Text(15)	Alphanumeric	No	
Tax	Text(15)	Alphanumeric	No	
Credit Card	Text(15)	Alphanumeric	No	
Loan account	Text(15)	Alphanumeric	No	
Others	Text(15)	Alphanumeric	No	

6.0 Terms and conditions

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7.0 Change Log

Version Number	Changes Made			
V1.0.0	Initial baseline created on <dd-Mon-yy> by <Name of Author>			
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