|  |  |  |  |
| --- | --- | --- | --- |
|  | **Prepared By / Last Updated By** | **Reviewed By** | **Approved By** |
| **Name** | Cognizant Academy |  |  |
| **Role** |  |  |  |
| **Signature** |  |  |  |
| **Date** | 08/04/2019 |  |  |

**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.

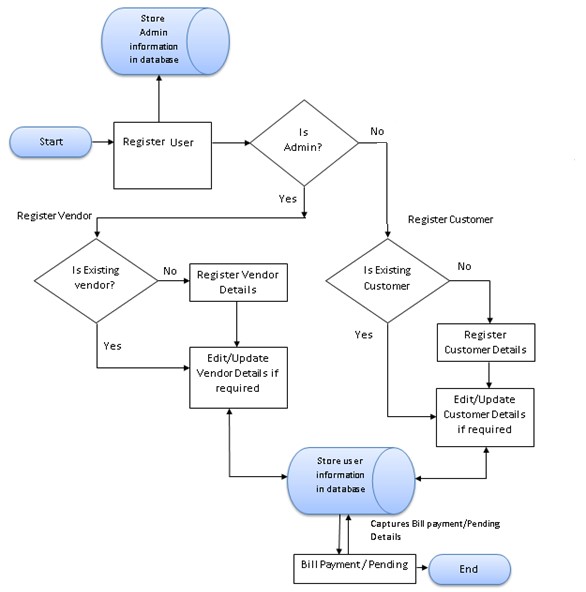
### 1.2.1 Objectives

* 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.** | | **Busine Requirem** | | **ss**  **ent 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 use | | | | | | | r | |
|  | | | profiles |  | | |
| 2 | |  | REQ-2 |  |  | | | | User login |  | | |  |  | Ability of the portal to | | | | | | | | | | |  |  |
|  |  |  | | authenticate an | | | | | | | d | |
|  | authorize the | | | | |  |
| registered user | | | | | | |
| 3 | |  | REQ-3 |  |  | | Vendor Registration | | | | |  |  |  | | Allows the admin t | | | | | | | | | o | |  |
|  |  | | | | |  | register, add, modify o | | | | | | | | | | | r  l |
|  | delete the vendors | | | | | | | | |  |
| available for online bil | | | | | | | | | | |
|  | | | | payments | | |  | | | |
| 4 | | REQ-4 | |  | Vendor Update | | | | | | | |  | Allows the admin 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 | | | | | | | | |  |
|  | | | paymen | | t | | | |
| 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 |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Req. #** | **Rationale Categorization** | **Business Requirement** | **Req.**  **Type**  **\*** | **Priority \*\*** | **Originator**  **\*\*\*** | **BR Traced to Business**  **Requirement / Use case ID** | **Remarks** | |
| 1.05 | New User  Registration | Post-successful field validation, save the  information in the database | F | Critical | NA | REQ-1 |  |  |
| 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 | Admin 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 |  | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Req. #** | **Rationale Categorization** | **Business Requirement** | **Req.**  **Type**  **\*** | **Priority \*\*** | **Originator**  **\*\*\*** | **BR Traced to Business**  **Requirement / Use case ID** | **Remarks** |
| 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 |  |
| 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 updation | Admin should also be allowed to  update the  registered vendor details as and when required | UI | Medium | NA | REQ-4 |  |
| 5.01 | Bills Mapping | Customer to be provided with  option to record the type of bills payed regularly:  Electricity  Telephone DTH  Insurance  Tax  Credit Card  Loan account Others | UI | Medium | NA | REQ-5 | Please refer  Table 3.0 under References section |
| 5.02 | 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-5 |  |
| 5.03 | Bills Mapping | Validate the entered details and display a message “Details saved successfully” | F | Medium | NA | REQ-5 |  |
| 5.04 | Bills Mapping | Provide an option if the user wants to set reminders to pay the bills | F | Medium | NA | REQ-5 |  |
| 5.04 | Bills Mapping | Allow the user to choose the frequency of reminder and verify user contact information is updated | UI | Medium | NA | REQ-5 |  |
| 6.01 | Bill Payment | User clicks on the option to Pay Bills | UI | Critical | NA | REQ-6 |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Req. #** | **Rationale Categorization** | **Business Requirement** | **Req.**  **Type**  **\*** | **Priority \*\*** | **Originator**  **\*\*\*** | **BR Traced to Business**  **Requirement / Use case ID** | **Remarks** |
| 6.02 | Bill Payment | Portal to display a dropdown button to select the type of  bill to be payed:  Electricity  Telephone DTH  Insurance  Tax  Credit Card  Loan account Others | F | Critical | NA | REQ-6 | Please refer  Table 4.0 under References section |
| 6.03 | Bill Payment | Post the bill type is selected, Portal to verify the  registered/updated information in the  Database and the pending amount to be payed. | F | Critical | NA | REQ-6 |  |
| 6.04 | 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-6 |  |
| 6.05 | Bill Payment | User to select the payment method: Credit/Debit Card  Internet Banking  PayTm  Google Pay e-Wallet | UI | Critical | NA | REQ-6 |  |
| 6.06 | Bill Payment | Based on the selected payment type, portal to  display the form to  enter the required details | UI | Critical | NA | REQ-6 |  |
| 6.07 | Bill Payment | Portal to process the payment  through vendor payment gateway | F | Critical | NA | REQ-6 |  |
| 6.08 | Bill Payment | Validate the provided details  against the banks and display a  message “Bill payement  Successful” | F | Critical | NA | REQ-6 |  |
| 6.09 | Bill Payment | If the entered details do not  match display  message “Enter correct details” | F | Critical | NA | REQ-6 |  |
| 7.01 | Help | Allows the user or admin to report technical issues | F | Low | NA | REQ-7 |  |

# 5.0 References

## 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 Number | Text(10) | Numeric | No |  |
| 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** | **Mandato ry** | **Possibl e**  **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 | Drop Down | NA | Yes |  |
| Establishment |  |  |  |  |
| 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 Effected** |
|  |  |  |  |