Project Specifications

E – Pay System

Table of Contents

1.	Abstract	1
2.	High Level Design Specification	1
	Mandatory Requirements	
4.	Best Practices	2
5.	Deliverables Expected	3
6.	Database Design	3

Project Specification



1. Abstract

'LuLu' Bank has been providing standard banking services to its almost captive customers who have been with the bank for several decades. Bank has been able to retain these customers primarily because of their personalized and timely services. For all these years, LuLu bank made minimal investments in its technology platform and various systems. As a result, LuLu bank has not been able to offer value added financial services and responsiveness to its customers.

To survive in the industry, the LuLu bank has planned to launch a product called 'E- Pay' System. This system will enable the bank customers to pay their bills through online. Customers each time do not need to pay their bills by banking online transactions. Instead simply they can add the vendors or shops whatever regular transactions they are having with. Once the customers registered for this service, they need to add the billers or vendors to whom they need to pay the bill. For example, if a customer regularly paying the insurance premium, then the insurance company can be added as one of the billers in the system. Then, the payment is made automatically for the biller, by the mentioned due date. Similarly the customer can add an installment, loan payment, premium payment etc. This system helps the customers to avoid last minute rush.

2. High Level Design Specification

The project contains the following main modules.

- Registration
- Billing Service
- History
- Admin
- Search

• Registration Module:

This module allows the users to register themselves. The registered users can sign in to their account and perform the activities like adding billers information, managing billers, viewing history of payments etc.

• Billing Service Module:

This module allows the customer to enjoy the billing service provided by the bank. It provides options for adding new biller information, updating or deleting the biller information, providing the payment schedule etc.

Project Specification



History Module:

The customer can view the payment history. This module provides the details such as the payment scheduled, payment made for the billers etc.

Admin Module:

This module allows the admin to perform admin activities. Through this module the admin can perform administrator activities like making announcements, managing the service of paying the billers etc. The admin can generate and view report such as list of users registered for 'E-Pay' service, payment made by the bank to billers, transaction details etc.

Search Module

This module is used to search the information by entering a criteria such as billers name, date etc.

3. Mandatory Requirements

• User-defined exceptions must be generated.

The following are the sample scenarios where user-defined exceptions required. Identify the other mandatory requirements and implement them.

- a. Entering Invalid user id
- b. Entering Invalid user name and password etc.
- Primary Key and foreign key constraints must be specified in database design.
- Session management must be implemented.

Session tracking or management must be properly maintained between the pages until the user log outs the session.

4. Best Practices

The development team must follow the best practices.

1. Coding Standard

- Methods and class names must be meaningful
- Meaningful names for variables
- Meaningful names for controls. To clearly identify the controls, the controls name can start with the control name followed by their functionality name

Project Specification



Sample

txtCustomerName – text field which is used to enter the customer name btSubmit – button to submit the fields entry

2. Validation for all the fields

- Missing of mandatory fields entry
- Entering numbers for name field etc.
- Identify the other required validation and implement them.
- 3. Layout design and arrangement of the controls must be proper in UI design
- 4. Title messages for each dialog and screen must be meaningful.

5. Deliverables Expected

- Project Documentation Report
- Database script file
- UI design document

6. Database Design

A partial database schema is given below. Additional tables or attributes may be added as per requirement. These database tables are samples only.

CUSTOMER_DETAILS

Field	Description
Customer_Id	Customer ID
Customer_Name	Customer Name
username	UserName
password	Password
Bill_Pay_Registered	To check the Bill Pay

ACCOUNT

Field	Description
Acct_no	Account Number
Customer_Id	Customer ID for reference





Ac_type	Type of account
Account_Balance	To know the current
Bill_Pay_Preferred	To checking the Preference
	of the Bill Payment

BILLER_DEATILS

Field	Description
Biller_id	To keep track of baill
Customer_Id	Customer ID for Reference
Biller Name	Biller Name
address	Biller Address
City	Biller city
Pin	Biller city Pin Number
Category_Code	Category Code
Status	To check the status of the biller either active are inactive

PAYMENT_DEATILS

Field	Description
Payment_Instr_No	Payment Instr Number
Ac_no	Account Number
Biller_Id	Bill ID for Refence
Payment_Due_Date	Payment date
Amount	Amount for bill payment
Recurring_Instr	Recurring Instr
Last_Processed_Date	Due date for Bill payment

PAYMENT_DETAILS

Field	Description
Payment_No	Payment Reference Number
Ac_no	Account Number from witch payment is made





Biller_Id	Bill ID for reference
Payment_Date	Payment made date
Amount	Amount for bill payment
Category_Code	Category code

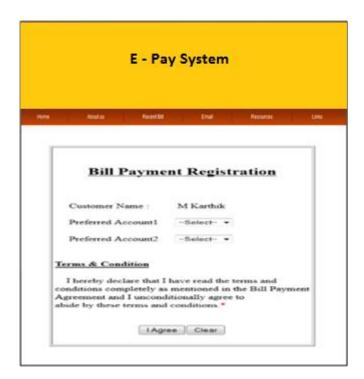


1. SCREEN DESIGN

User Login



Registration





Managing Billers



Payment History

