

# Banking System

## Requirements Analysis

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### **1.Introduction**

## **1.1 Purpose of the product:**

The purpose of this document is to give detailed description of application requirements, both functional and nonfunctional for the “Banking System”. This document provides;

- A definition of application capabilities.
- A specification of the application’s functional and nonfunctional requirements.
- Environment description in which application operates.

The document is intended to serve following audiences

- First designers will use this information as the basis to create application such user friendly environment.
- Second the client reviews the document that it’s clarify their needs, and fulfilling both functional and nonfunctional requirements as basis for an agreement between client and user.
- Third the application maintainers will review documents to clarify about what the application does.

## **1.2 Scope of product:**

The “Banking System” is an application which aims to provide an improvement in the system of BANKS for managing, storing and retrieving data to facilitate the customer in applying for creating, updating account and withdrawing, depositing cash etc. The application is accessible from everywhere.

All System information is maintained in a database in one central location, which is located on a web-server. An account # and bank name will be required to search and display information.

## **1.3 Overview of product:**

The rest of the Banking System examines the complete specifications of the application. Section 2 presents the general factors that affect the Banking System and its requirements such as user characteristics and general constraints. Section 3 outline the functional and nonfunctional requirements.

# **2General Description**

## **2.1 Product Perspective:**

The Banking System is a Web Application, through web user can access to its account and gets interact with by just their account #, and this application will communicate with database to gets information, and all databases communication will go over the internet.

## **2.2 Product Functions:**

Through this web application the user will access their accounts through account number and deposit or withdraw money using their account pins. This system will also provide functionality

## **2.3 Characteristics:**

There are two types of user that interact with the system Client and Bank Management. Each of these type of user has different use of the system. Each of them has their own requirements. Client can use the application for depositing, withdrawing and bill payments and etc.

The bank Management have full access to either get or update data. They will manage the overall system.

## **2.4 Constraints:**

The internet connection is a constraint for the application. Since the application fetches the data from database over the internet. It is crucial that there is an internet connection for the application to function.

## **3 Specific Requirements**

### **3.1 Functional Requirements:**

- **Creating Account:**  
User can easily create their account and a unique account number provide to each user.
- **Updating Account:**  
User can easily update their account through their account number from anywhere using web sites.
- **Deleting Account:**  
User can Delete their account using their account number.
- **Unique Account #:**  
Each user must have unique account number.
- **Depositing Cash:**  
User can easily deposit their cash on providing specific pin.
- **Withdraw Cash:**  
User can Withdraw cash if they have balance on providing specific pin and they can also get slip as record.
- **Bill Payments:**  
Payments of bills can be done through this application.
- **Loan Services:**  
Loans can be given on interests to specific period of time.
- **System Update:**  
System should be updated after each transaction.

### **3.2 Non-Functional Requirements:**

- **System dependability:**  
The system should be fault tolerant, if the system losses the connection to the internet the user should be informed.
- **Privacy and Security:**  
The system should be secure. No one can access to one's account except the banking management.
- **Reliability:**  
The system can be relied on performance. Minimal bugs and performance lags should be experienced by the user.
- **Availability:**

The system should be available more than 99% of the time.

- **Maintainability:**

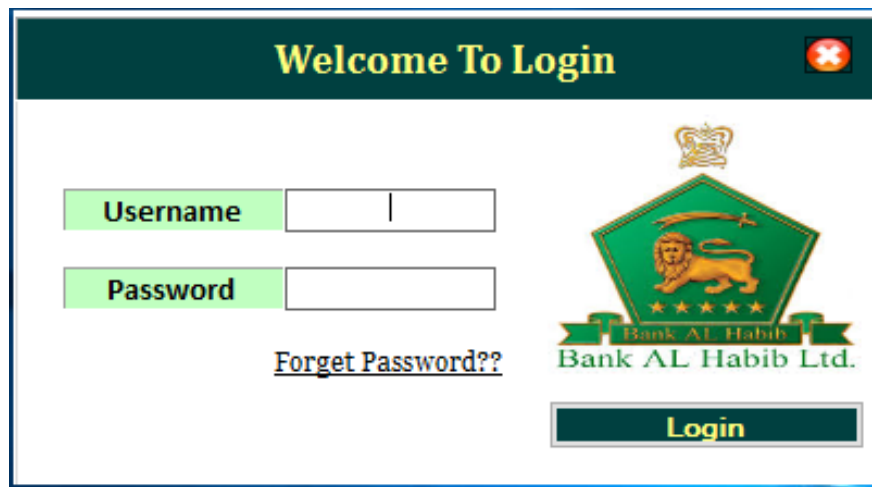
Application expandability, application should be design in such a way to add more features in as required.

### 3.3 Interface Requirements

#### 3.3.1 Overview of Banking System Interaction

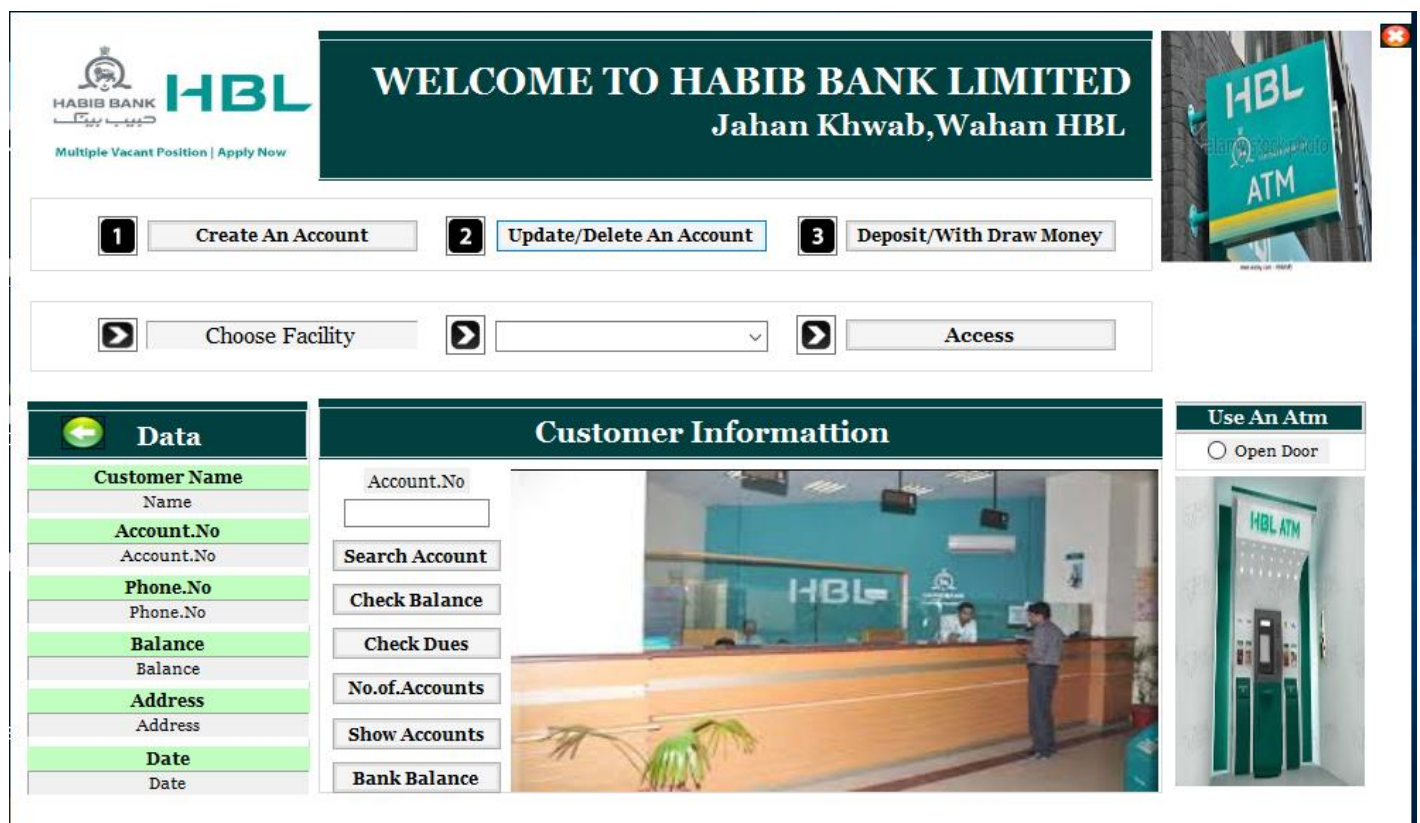
##### User Interface

##### Login:



The login interface for Bank AL Habib features a dark green header with the text "Welcome To Login" and a close button. Below the header, there are two input fields: "Username" and "Password", both with green labels. To the right of the input fields is the Bank AL Habib logo, which includes a lion and the text "Bank AL Habib Ltd.". Below the logo is a "Login" button. A link for "Forget Password??" is located below the password field.

##### Banking System



The Banking System interface is a comprehensive dashboard for Bank AL Habib Limited. It features a header with the HBL logo and the text "WELCOME TO HABIB BANK LIMITED Jahan Khwab, Wahan HBL". Below the header, there are three main sections: "Create An Account", "Update/Delete An Account", and "Deposit/With Draw Money". A "Choose Facility" section includes a dropdown menu and an "Access" button. The "Data" section on the left lists various customer information fields: Customer Name, Account.No, Phone.No, Balance, Address, and Date. The "Customer Information" section on the right includes a search bar, a list of account types, and a "Bank Balance" button. A large image of an HBL ATM is displayed on the right side of the interface.

## Atm Service:

Form1

Automated Teller Machine

→

500

←

→

1000

←

→

10000

←

→

15000

←

→

Enter Amount

←

→

5000

←

→

25000

←

1 QZ

2 ABC

3 DEF

CANCEL

4 GHI

5 JKL

6 MNO

CLEAR

7 PQRS


8 TUV

9 WXY

ENTER

0 @#?

GET SLIP



Get Slip

.....SLIP.....

Transaction Details

Account\_No--1

Name--sarfaraz

Account Type--Current


Balance--7000

Date--Wednesday,

Cash Deposit5000

Go back

## Create Account:



Creating An Account

Fill Form

Account#1

Name

Address

Account Type

Atm\_Pin

Gender

Phone#

Cash Depositing

○ Current Account

○ Saving Account

○ Male

○ Female

Customer Record

	Account_No	Name	Gender	Phone_No	Address	Date	Ac
▶	1	sarfaraz	Male	34233434	rafibanglows,...	Wednesday, S...	Cu
*							

Name

sarfaraz

Address

rafibanglows,

Balance

2000

Phone.No

34233434

Account.No

1

Gender

Male

Account Type

Current

Date

Thursday , September 20, 20: ▾

Show Data

Create

## Bill Payment:

BillForm

Account.No 1 Atm\_Pin 1

**K-ELECTRIC**  
Energy That Moves Life

**ELECTRICITY BILL**

Name sarfaraz  
Address rafibanglows, malir

**Historical Information**

MM/YY	Bill Amount	Pay-Date	Payment
MM/YY	Amount	Date	Rs
MM/YY	Amount	Date	Rs
MM/YY	2000	Date	Rs

**Amount PayAble Within Due**  
1853.76

**Due Date**

**Billing Month**  
Nov/2017

**Amount PayAble After Due**  
2095.76

**Bill Calculation**

Units 216  
Rates 8.11  
Value 1751.76

Account-Number	Net-Amount	Gross-Amount	Due Date
Account-Number	1853.76	2095.76	

**Pay Bill** 1853.76 **Enter Cash**

## Loan Services:

LoanForm

Account.No 1 Atm\_Pin 1

**HBL** HABIL BANK

**Hbl Loan Services**

Name sarfaraz  
Address rafibanglows  
Account Type Current

**Loan Details**

**Enter Amount Of Loan** 12000

**Months...** 2

**Check** **Loan==** 12200

**Get Loan**

**Loan PayAble**  
Amount  
Account Balance  
2000  
loan taken for...  
2  
Intrest  
Charges-RS

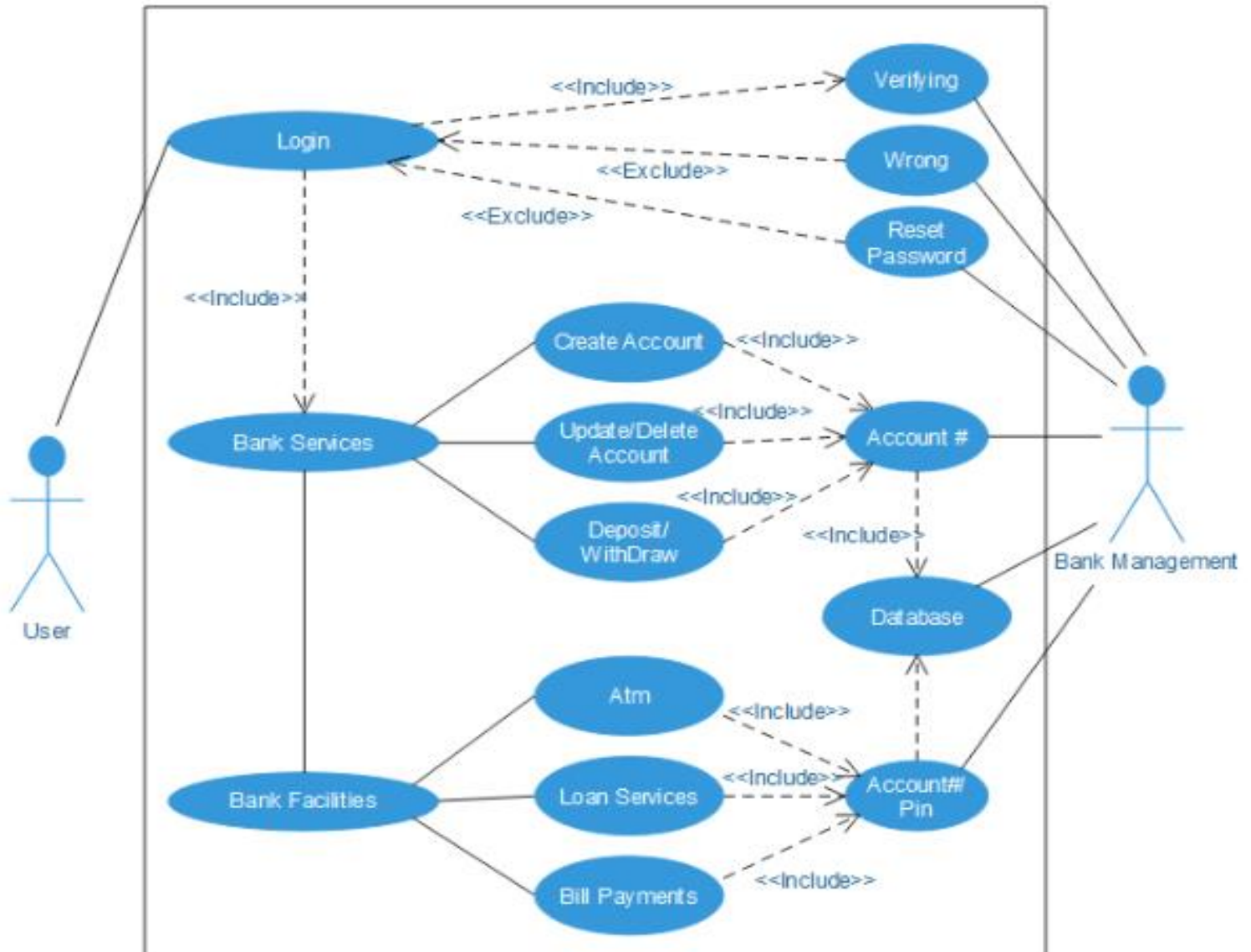
**Loan Calculation**

Previous Loan 0  
Current Loan 12200  
Total Loan 12200

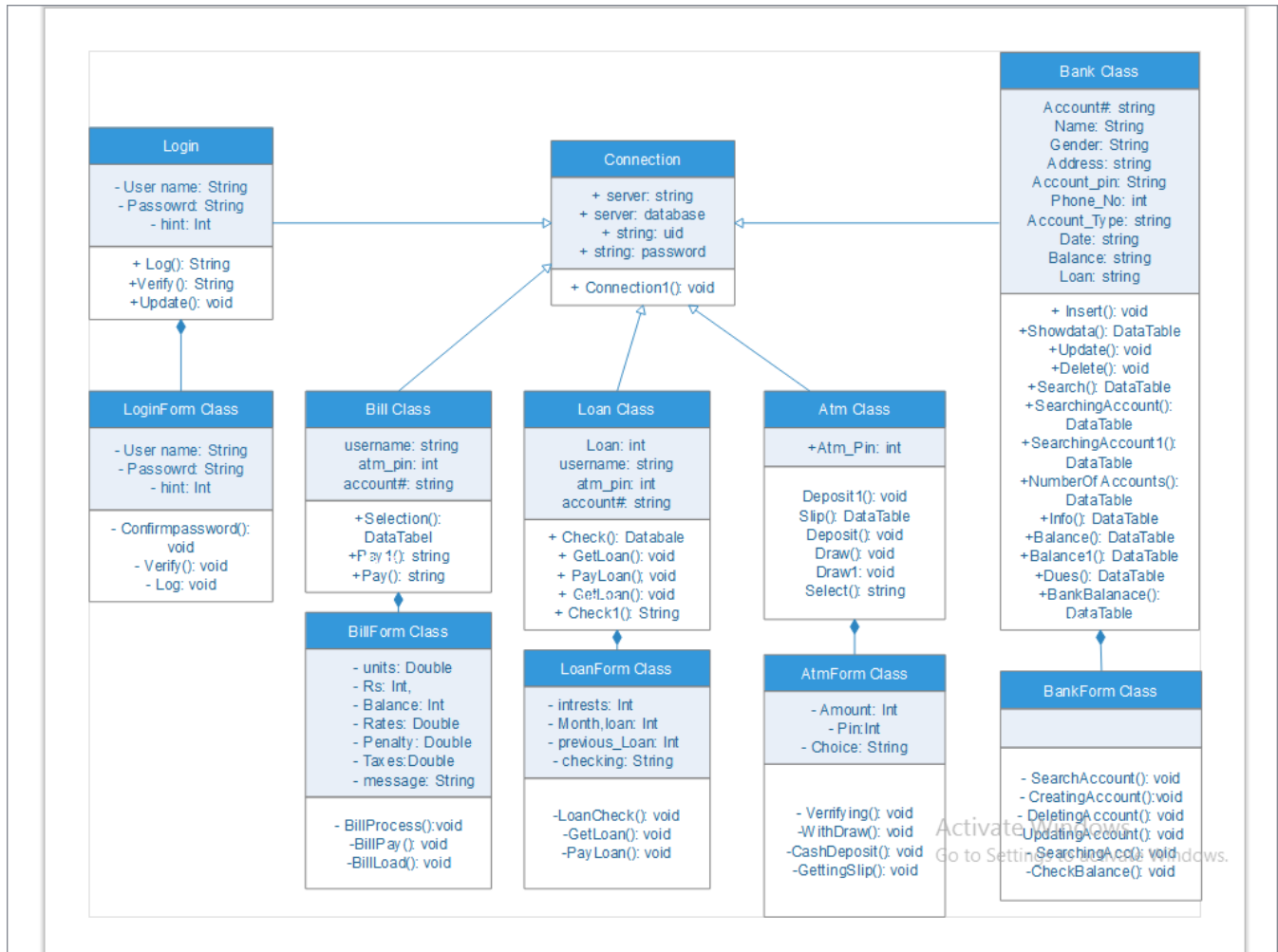
Account-Number	Loan Amount	Intrests Charges-RS	Date
1	12200		

**Pay Loan** 0 **Current Loan** Charges-RS

## Used Case Diagram



# Class Diagram



## 4.References

- [1] [https://web.cs.dal.ca/~hawkey/3130/srs\\_template-ieee.doc](https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc).
- [2] IEE STD 830-1998 Standard Recommended Practice for Software Requirement Specification.
- [3] [https://www.cse.chalmers.se/~feld/courses/requeng/examples/srs\\_example\\_2010\\_group2.pdf](https://www.cse.chalmers.se/~feld/courses/requeng/examples/srs_example_2010_group2.pdf).