Banking System

Requirements Analysis

Prepared by,

➢ Sarfaraz Ahmed Khan(B16158079)
➢ Syed Muhammad Faisal(B16158091)
➢ Muhammad Asad(B16158051)
➢ Imran Khan(B16158037)
➢ Syed Immad Ur Rehman(B16158085)

Table of Contents

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.

2 General 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.

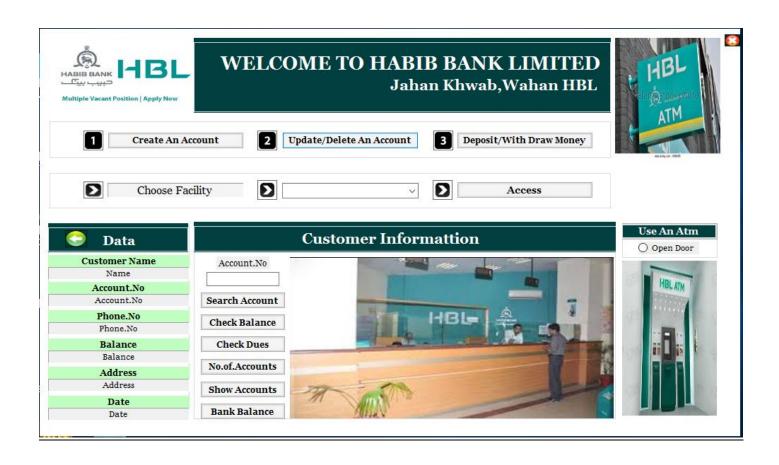## 3.3 Interface Requirements

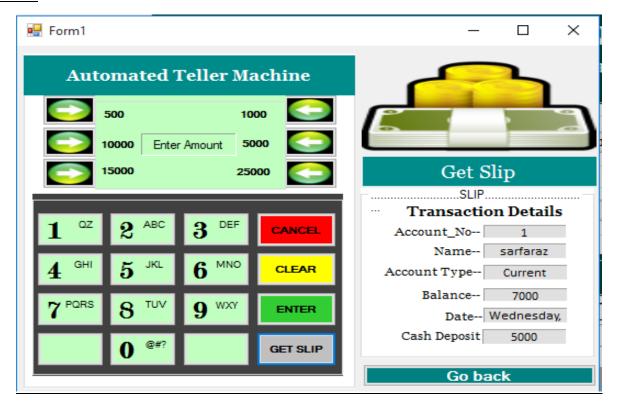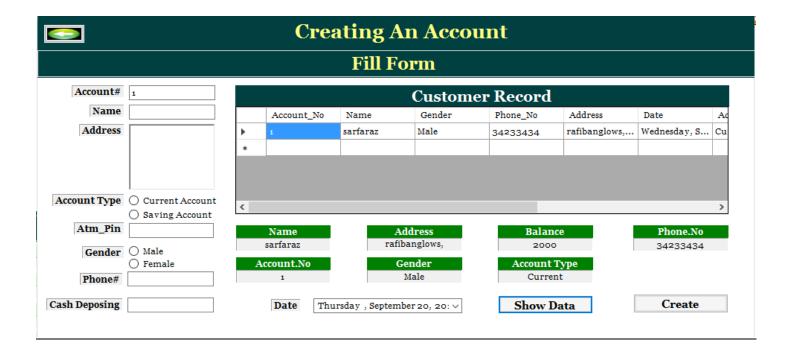### 3.3.1 Overview of Banking System Interaction
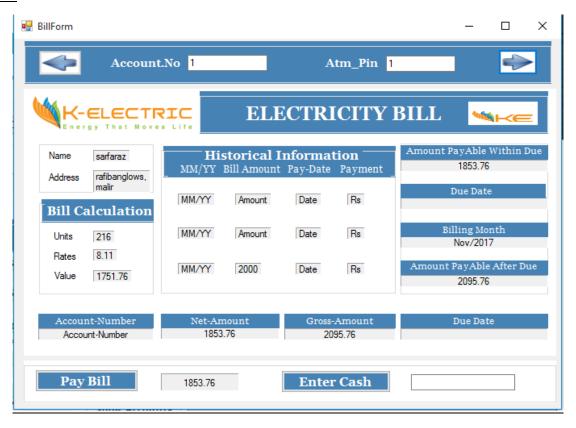
User Interface

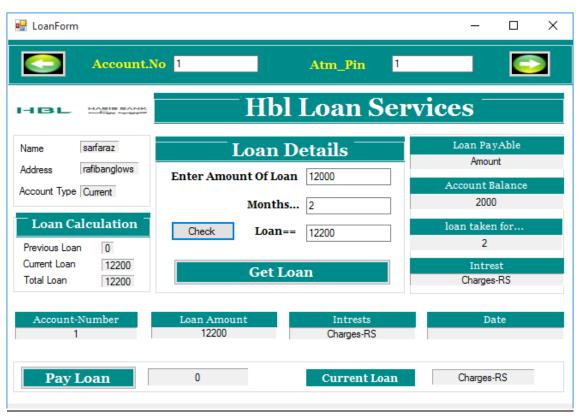Login:

Banking System

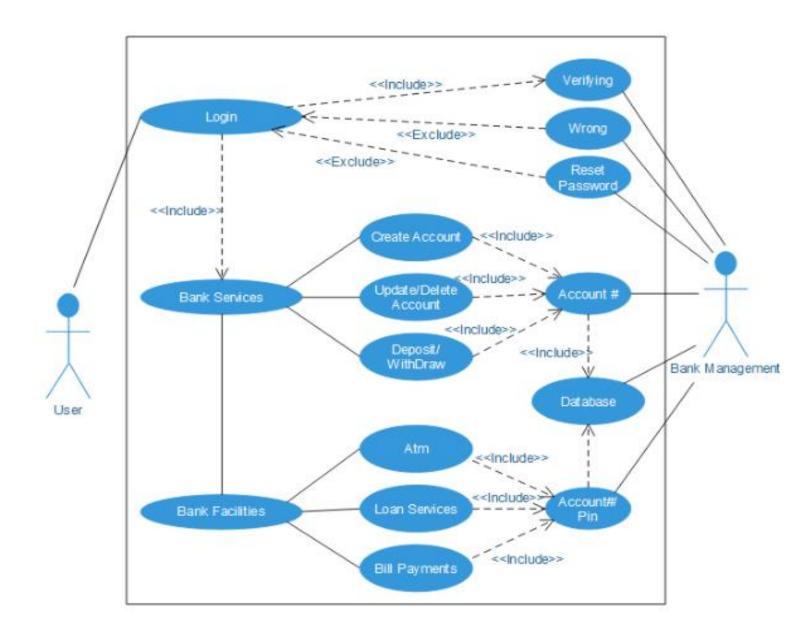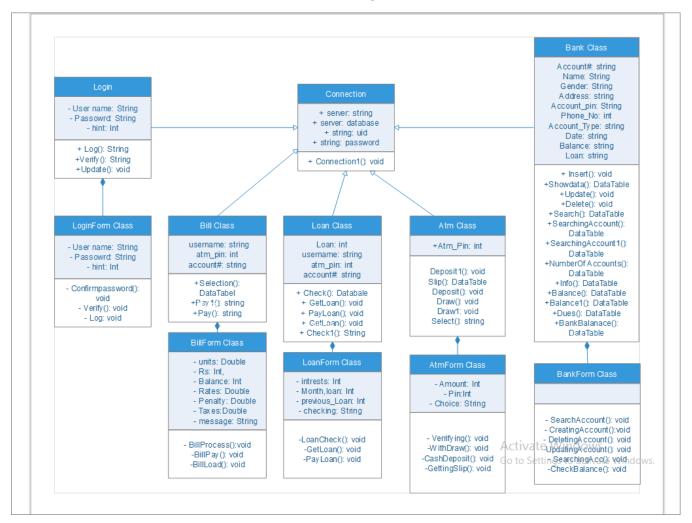Atm_Service:

Create Account:

Bill Payment:

Loan Services:

Used Case Diagram

Class Diagram

4.References

[1] 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.