# **Software Requirements Specification**

#### For

- <Digital Wallet>
- -Version 1.0 Approved
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- -Date Created: November 13, 2021
- 1. Introduction

# 1.1 Purpose

The document is used to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to consumers. Also, we shall predict and sort out how we hope this

product will be used to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops.

The Software Requirements Specification (SRS) will provide a detailed description of the requirements for bank system.

This SRS will allow for a complete understanding of what is to be expected from the newly introduced system which is to be constructed. The clear understanding of the system and its' functionality will allow for the correct software to be developed for the end user and will be used for the development of the future stages of the project. This SRS will provide the foundation for the project.

From this SRS, A bank system can be designed, constructed, and finally tested. This SRS will be used by the system development team which is constructing the bank system and the end users of bank system. Nonetheless, it helps any designer and developer to assist in software delivery lifecycle (SDLC) processes.

The Project team will use the SRS to fully understand the expectations of this bank system to construct the appropriate software.

The bank system end users will be able to use this SRS as a test to see if the constructing team will be constructing the system to their expectations. If it is not to their expectations the end users can specify how it is not to their liking and the team will change the SRS to fit the end users' needs (Requirement Validation).

## 1.2 Document Conventions

The document is prepared using Microsoft Word 2019 and has used the font type

Calibri (Body).

The fixed font size that has been used to type this document is 16pt with 1.15 line-spacing. It has used the bold property to set the headings of the document.

Use case scenario is written according to Alistair Cockburn's template. UML diagrams have been created according to UML 2.0 standards.

This document uses the following conventions:

SRS	Software Requirements Specification
SDLC	Software Development Life Cycle
DB	Database
ER	Entity Relationship

## 1.3 Intended Audience and Reading Suggestions

-The Intended audience of this document would be the owner and the employees (Bankers, Accountants and Manager) and project team with the objective to refer and analyze the information.

-Brief outline of the document:-

- 1) Overall Description.
- 2) System Features.
- 3) External Interface Requirements.
- 4) Non-Functional Requirements.

## 1.4 Product Scope

Creating New Accounts- The application can be used to create accounts by the customers. It helps save the hustle for the customer to visit the bank physically and create/use these accounts. Depositing Money- As the world is moving towards the limited use of paper currency, depositing or transferring money from one bank to the other will become as easy as clicking a few buttons using this application. Withdrawing Money- Requests can be sent through the application to ask for money transfer as well. Balance Enquiry- The customer can check their balance via this application. Advancing loans – The customer can ask for loans. Changing Passwords/PIN- The customer can easily change the passwords and pin numbers using the application. Close Account - The customer can close their accounts too using this application.

### 1.5 Reference

-World Wide Web

1- "Bank Management System Scope" Accessed: November 10, 2021

https://www.makemyassignments.com/blog/banking-system-its-scope-and-the-technology-used/

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# 2. Overall Description

## 2.1 Product Perspective:

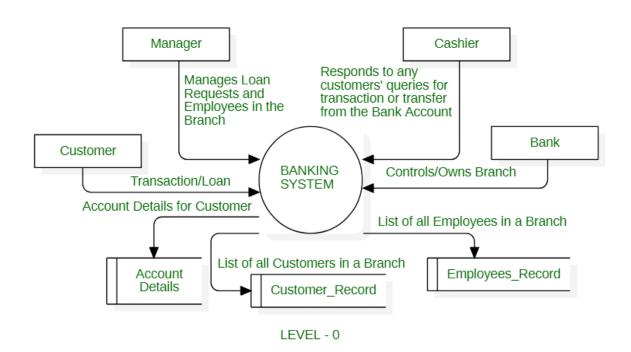
The client will have client interface in which he can interact with the banking system through the application. The starting page is displayed asking the type of customer he is whether ordinary or corporate customer. Then the page is redirected to login page where the user can enter the login details. If the login particulars are valid then the user is taken to a home page where he has entire transaction list that he can perform with the bank. All the above activities come under the

The outcome of this project will increase the efficiency of almost all the tasks done at the Bank in a much convenient manner.

## 2.2 Product Functions:

- Login Process
- Balance Enquiry
- Saving Accounts
- Transfer of Money

- Accepting deposits
- Advancing Loans
- Manage Customer (New, Edit, Delete)
- Manage Account (New, Edit, Delete)
- Discounting Bills of Exchange or Hundis



FunctionAdd credit cardInputEnter card number and cvv of cardOutputDisplay Confirmation letter if information is correctProcessingchecking the information of credit card and record it in the database

Function	Login Process
Input	Mobile number, Password
Output	Display all services
Processing	Validate the given details

Function	Balance Enquiry
Input	press button of current balance
Output	Display Current Balance of the account
Processing	checking the records in the database

Function	Mobile recharge
Input	Enter Mobile number and amount of recharge balance
Output	Display Confirmation message
Processing	discount value of recharge from balance and update data base

Function	Mobile, home phone and internet bill
Input	Enter Mobile or home phone number
Output	Display bill and Confirmation message if pay a bill
<b>Processing</b>	discount value of bill from balance and update database

Function	Electricity bill
Input	Enter CRN, Re Enter CRN and Mobile number
Output	Display bill and Confirmation message if pay a bill
Processing	discount value of bill from balance and update data base

Function	water bill
Input	Enter account number , Re Enter account number and
	Mobile number
Output	Display bill and Confirmation message if pay a bill
Processing	discount value of bill from balance and update data base

Function	Gas bill
Input	Enter CRN, Re Enter CRN and Mobile number
Output	Display bill and Confirmation message if pay a bill
<b>Processing</b>	discount value of bill from balance and update data base

Function	donations
Input	Enter Mobile number and bank account number of charity
	foundations
Output	Display Confirmation Message
<b>Processing</b>	discount value of donation value from balance and update data
	base

Function	Traffic taxes fees
Input	Enter license plate number and Mobile number
Output	Display traffic taxes and Confirmation message if pay a bill
Processing	discount value of bill from balance and update data base

Function	Tuition fee
Input	Enter national id of student
Output	Display bill and Confirmation message if pay a bill
<b>Processing</b>	discount value of bill from balance and update data base

## 2.3 User Classes and Characteristics:

#### 2.3.1 User classes:

There are three user levels in Banking System:

- 1) Manager
- 2) Employees
- 3) Customers

## 2.3.2 Characteristics of User Classes:

#### Manager:

Manager is responsible for managing resources and staff, developing and attaining sales goals, delivering customer service, and growing the location's revenues, adding new customers to the system, modifying them or removing them.

#### **Employees:**

Employees are responsible for adding new accounts for the customer to the system, modifying them and removing them from the system.

#### **Customers:**

Customers can make accounts and add their personal information, they can deposit or withdraw money, they can ask for advancing loans.

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# 2.4 Operating Environment:

#### Hardware:

- 1) Operating system: supports all known operating systems, such as Windows, Linux, Mac, Unix, Android.
- 2) Computer: 1 GB RAM, 1 -GHz processor, monitor with minimum resolution of 1024 \* 768, keyboard, mouse.
- 3) Mobile: for iPhone requires iOS 6.0 or later, for Android requires Android 4.0 and up, 512 MB RAM.
- 4) Hard Drive: should be in a NTFS file-system formatted with minimum 10 GB of free space.
- 5) Internet: Cable, DSL, or ISDN Internet connection (dial-up is supported for basic customer users).

#### **Software:**

- 1) Software is designed to run on any platform above Microsoft Windows 7 (32bit).
- 2) Microsoft .NET Frameworks 4.0 or above.
- 3) Microsoft SQL Server Management Studio Express 2010.

# 2.5 Design and Implementation Constraints:

#### For Computers:

System will need a minimum memory of 1GB. But it is recommended to have a memory of 2 GB. System must be compatible with all platforms such as Windows and Mac. The system must be easy to use and acceptable for customer users. When designing interfaces of system, we had the capability of work with new tools such as Visual

Studio. Considering the Client's budget we decided to create those interfaces in a simple realistic manner using affordable technology.

#### For Mobiles:

System will need a minimum memory of 512MB. But it is recommended to have a memory of 1GB. System must be compatible with all platforms such as Android and iPhone.

## 2.6 User Documentation

A registered user can have the following facilities:

- 1) Account and account status.
- 2) The balance enquiry.
- 3) Deposit and withdraw money.
- 4) The fund transfer standards.
- 5) Cheque Book Request.
- 6) Password Changing.

# 2.7 Assumptions and Dependencies

- 1- The details of customers such as username, password, account type and their corresponding authority details should be manually entered by the administrator before using the system.
- 2- Every user should be comfortable of working with computer and net browsing.
- 3- He should aware of the banking system.

- 4- He must have basic knowledge of English too.
- 5- The main server would never go offline.
- 6- This project is stand-alone project so it will not affect the system where it will be embedded and it is will not affect the environment at all.
- 7- The Core banking solution will be connected to the internet during the working hours of the bank: Core banking solution allows interconnectivity between branches of the same bank and facilitates management of deposit, loan, and credit processing. ... With core banking solution, customers can operate their accounts as well as avail banking services from any branch of the bank on the network.