Software Requirements Specification

For

Bank Management System

Version 0.1 approved

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1.Introduction

This document, Software Requirements Specification (SRS), is created to document the software requirements for bank management system. This document provides an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview of the SRS. The aim of this document is to gather and analyze and give an in-depth insight of the complete **bank management system** by defining the problem statement in detail. The detailed requirements of the **bank management system** are provided in this document.

1.1 Purpose

The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system .The project we have undertaken aims to develop a **bank management system** that is clean, user-friendly and multi-functional. Development of this application includes a number of fields such that user feels comfortable and system appears as dynamic to him. The project "bank management system" includes the following services;

- Customer can create account
- Transactions can do with minimum user events.
- All transactional details and accounts are stored in files on stable storage
- Customers can view their own account details
- Customer can inquire an account and can inquire about interest
- All customers data are stored in files a stable storage
- To provide flexibility for secure and save transaction.
- Doing work more accurately.

1.2 project scope

The bank management system will be extremely beneficial for the customers intending to use and operate their bank account. Customer will get various benefits in the fields of management of accounts on a clean and user friendly platform.

"Bank management system", is a simple application, which is especially used to keep record of clients, employee etc in bank. The system provides access to the customer to create accounts, deposit / withdraw the cash from account.
This system provides the basic to manage bank account at a bank. Bank has many branches, each of which has an address and branch number. A client can open account in any branch.

1.3 Glossary

This subsection contains definitions of all the terms, acronyms, and abbreviations used in the document. Terms and concepts from the application domain are defined.

- SRS – System Requirement Specification
- SDLC – Software Development Life Cycle
- UI – User Interface

1.4 Overview

This system provides an easy solution to the bank employee to maintain customer as well as employee records and maintaining a record of all the transactions that take place.

This Bank Management System replaces the conventional, traditional file and record based system with the help of which a lot of paper work will be reduced. Thus the manual work of maintaining files which are subjected to physical wear and tear can be avoided. The employee must be able to view all the information of customers such as name, account number, date of birth, gender, address, initial balance. Also it must be able to record different transactions such as withdrawal, deposit or transfer of funds from one account to another. The employee can also add new staff members to the system providing them direct access to the database and thus enabling them to provide services to the users.

2 User Classes and Characteristics

There are four user in our project .They are listed below with their description.

1. User
2. Bank
3. Admin

User: To develop of a software for solving financial applications of a customer in banking environment in order to nurture the needs of an end banking user by providing various ways to perform banking tasks. Also to enable the user's workspace to have additional functionalities which are not provided under conventional banking software.

Bank: The bank management system is an application for maintaining a person's account in a bank. The system provides the access to the customer to create an account; deposit/withdraw the cash from his account, also to view reports of all accounts present.

Admin: The bank management system is an application for a user. A user can create account by this system. But an admin can control full system. If admin see any harmful affect on this system and don't give exact information of a user then admin can band or give thread on user. The summery is admin can do everything.

3. Design and Implementation Constraints

Design and implementation constraints are those that we have used to implement this project make successful. It also describes tool that enables developers and testers to view and interact with the user interface (UI) elements of this application

3.1 User Interface Technology

User interface (UI) is everything designed into a system view that which person's associates with this system may like the interface of this system.

3.1.1 Software Interface

1 Any windows operating system.
2 The PHP must be installed. For the database handling MYSQL must be installed. These products are open source products.
3 Visual basic

3.1.2 Programming Language

The languages that shall be used for coding Bank management System are c , c++ , java ,PHP, and HTML.The Graphical interface (Front End) of the application is prepared by the usage of Visual Basic.

3.1.3Database design

In our database design, we give names to data flows, processes and data stores. Although the names are descriptive of data, they do not give details .So following DFD, our interest is to build some details of the contents of data flows, processes and data store. A data dictionary is a structured repository of data about data .It is a set of rigorous definitions of all DFD data elements and data structures .

3.1.4 Software interface

The project will require the Visual Basic as a front end and at the back end the database MYSQL will be running. We used java server faces (J S f)

3.1.5 GUI

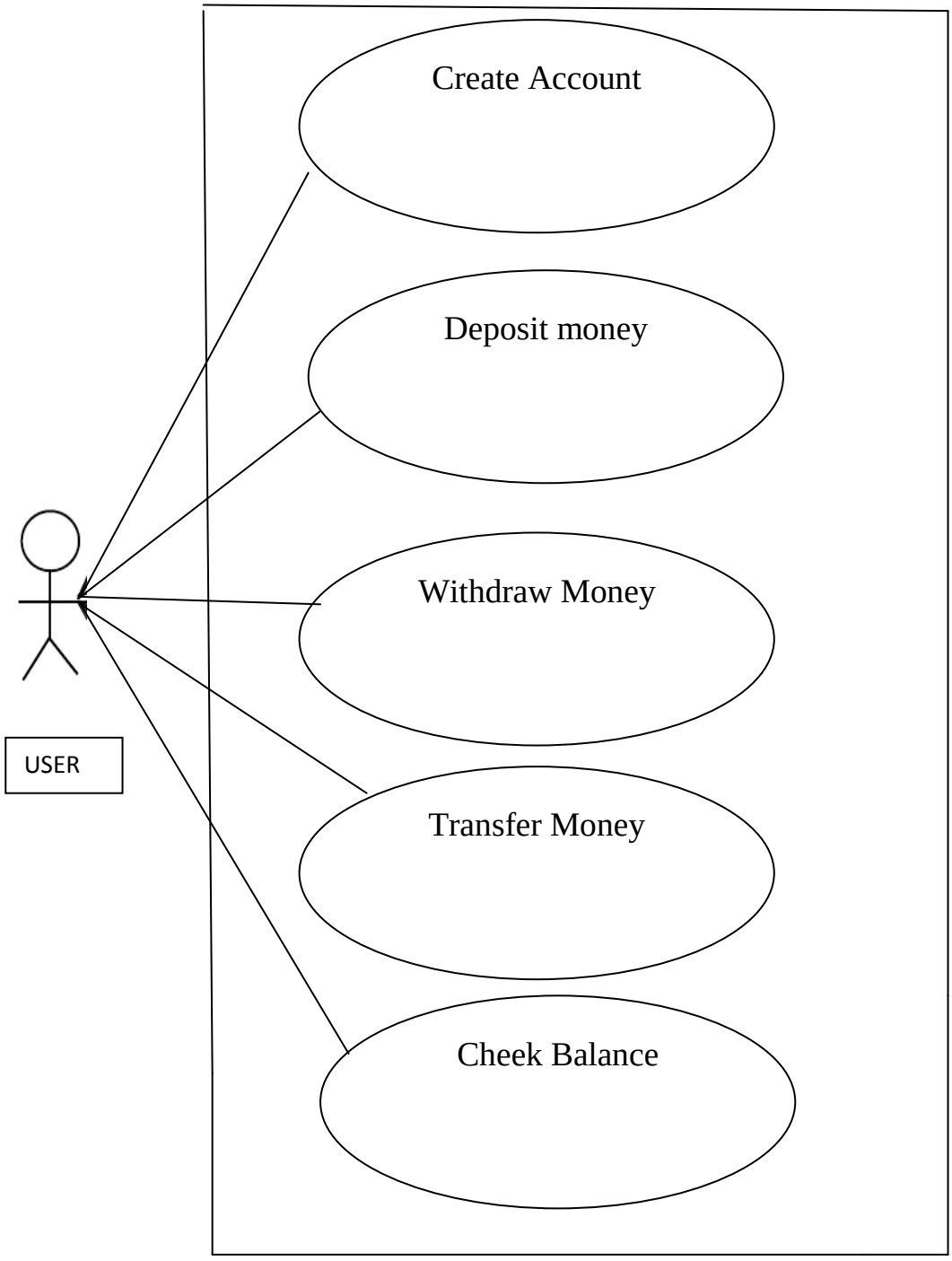
This is interface must be highly intuitive or interactive because there will not be an assistance for the user who is operating the System. At most of the places help desk should be provided for user's convenience. The screens appearing should be designed in such a manner that it can draw User attraction towards the new plans for the customers.

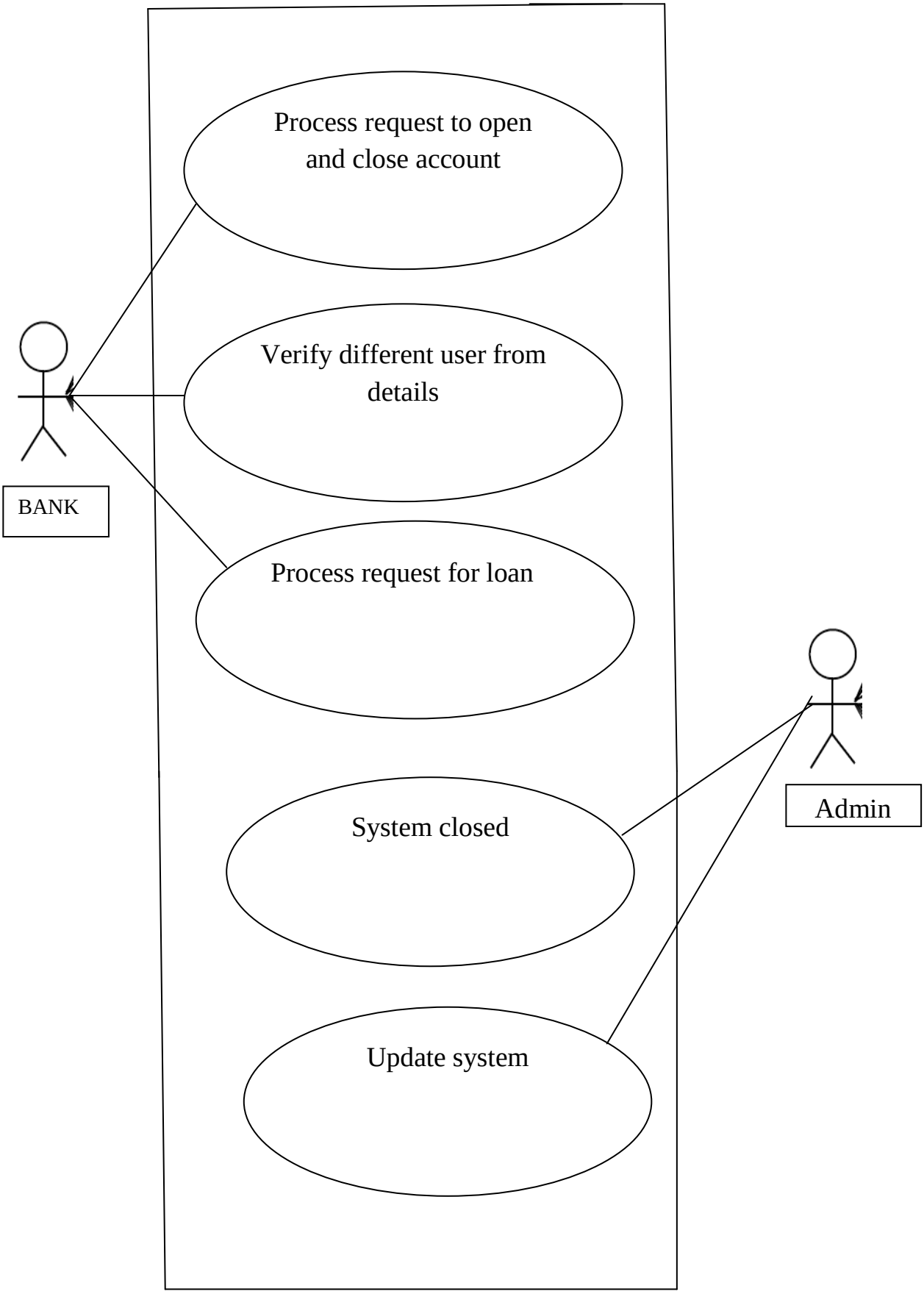
Also the pin and password confidentiality should be maintained,
This can be done by using asterisks at the password panel.
Proper security messages should be displayed at most of the places.

3.1.6Visual Basic

The forms component of Visual Basic is the part of the development environments in which u develop form modules. It also provides the development framework of developing menu and SQL Library modules. The graphic component of Visual Basic 6.0 is the part of environment in which you develop display modules. A display module may one or more charts you derive from database data, or may contain any combination of graphic elements with or without reference to the database. You can display modules strictly for business graphics display of data, or you can use it as a graphics- dawning tools or both.

Use Case Diagram




Process request to open and close account
Verify different user from details
Process request for loan
System closed
Update system
BANK
Admin

5. Requirement Specification

The complete requirement specification based on the elicitation process is described in this section

5.1 Functional Requirements

The Functional Requirements Specification is designed to be read by a general audience. Readers should understand the system, but no particular technical knowledge should be required to understand the document.

FR-01	Create Account
Description	This module helps user to create account
Stakeholders	USER

FR-02	Deposit Money
Description	This module helps user to deposit money
Stakeholders	USER

FR-03	Withdraw Money
Description	This module helps user to withdraw money
Stakeholders	USER

FR-04	Transfer Money
Description	This module helps user to transfer money
Stakeholders	USER

FR-05	Balance Cheek
Description	This module helps user to cheek balance
Stakeholders	USER

FR-06	Process request to open and close account
Description	This module helps banker to open and close account
Stakeholders	Banker

FR-07	Verify different user from details
Description	This module helps banker to verify account
Stakeholders	Banker

FR-08	Process request for loan
Description	This module helps banker to request for loan
Stakeholders	Banker

FR-09	System Close
Description	This module create admin to system close
Stakeholders	Admin

FR-10	Update System
Description	This module helps admin to update system
Stakeholders	Admin

5.2 Performance Requirements

A requirement that specifies a performance characteristic that a system or system or system component must possess; for example, speed, accuracy, frequency.

5.2.1 Speed and Latency Requirements

The system is required a fair amount of speed especially while browsing game lists to take bet on a posted game.

PR-01	The Landing app will response within a second
Description	While the user's browsing the system the landing page will show within a second. It also depends on user's internet mobile configuration
Stakeholders	User, Banker, Admin

5.2.2 Precision and Accuracy Requirements

PR-02	Facilitate communication
Description	This will definitely help the users for the purpose of saving their valuable time.
Stakeholders	User, Banker, Admin

5.2.3 Capacity Requirements

The system is able to manage all the information of full bank.

PR-03	Initially the system will store 7 types information
Description	The information of bank will be stored in database.
Stakeholders	User, Banker, Admin

5.3 Dependability Requirements

The flexibility of current frameworks encourage system architects to enable reconfiguration mechanisms that refocus the available, safe resources to support the most critical services rather than over-provisioning to build failure-proof system. Therefore, these requirements are essentials.

5.3.1 Reliability and Availability

In order to support global and smooth operations the system must be available around the clock. On the other hand most services in this system are not mission-critical. Even better the game posting can handle times of downtime as the users usually interact with high availability from third party website. This system will be able to catch up with their data once it's up and running again.

DR-01	The system must be available 24x7
Description	➢ The system must be available 24 hours in a day ➢ The system must be updated regularly
Stakeholders	User, Banker, Admin

5.3.2 Robustness and Fault Tolerance Requirements

The system will almost ensure 0% crush in any single minor error and don't give any wrong calculation.

DR-02	The system handles over access and system errors
Description	Sometimes multiple users can over access to this system. The system can handle multiple user access
Stakeholders	admin

5.3.3 Safety Critical Requirements

DR-03	User name and password
Description	
Stakeholders	User

5.4 Maintainability and Supportability

Supportability is the degree to which system design characteristics and planned logistics resources meet system requirements. Supportability is the capability of a total system design to support operations and readiness needs throughout the life-cycle of a system at an affordable cost.

5.4.1 Maintenance Requirements

MR-01	The system helps to update any information in any time
Description	The admin can change information and can enable to change or update any information in any situation
Stakeholders	Admin

5.4.2 Supportability Requirements

In order to understand the system's behavior on a technical support required by the system operator. The reason for reading them might be.

- User Friendliness is provided in the application with various controls provided by system Rich User Interface.
- The system makes the overall project management much easier and flexible.
- It can be accessed over the Intranet.
- The city information files can be stored in centralized database which can be maintained by the system.

5.4.3 Adaptability Requirements

There are no specific adaptability requirements.

5.5 Security Requirements

There are no access requirements beside those that have been outlined in the below

5.5.1 Access Requirements

To get access to the system, the system provides authorization/authentication way. This system uses various modules.

AR-01	The system provides security strategies
Description	The system is designed in way that allows all modules to access a mechanism that provides security services.
Stakeholders	User, Banker, Admin

5.5.2 Integrity Requirements

To protect credentials of user from being stolen, all information are stored in encrypted form. The Requirements significantly reduces the value of stolen user credentials, it's not easy to decrypt the information

5.5.3 Privacy Requirements

The system provides a protection of the database in the server. However, the system will have to increment this level of protection because of the data mode available on the system & the larger share of people that will be having access to it through the system's registration. The admin privacy will be granted by the limited access that the log in process is going to give to the database.

5.6 Usability and Human Integrity Requirements

These Requirements define how to meet the physical and cognitive needs of the intended users of your website or application.

5.6.1 Ease of Use Requirement

The system is easy to use and can easily be understandable.

UHR-01	The system must be usable for User, Admin and Bank.
Description	The system indicates the several possibilities that the User, Admin and Bank has to go on in using the system. The admin members are allowed to update, upload, and delete any of the information.
Stakeholders	User, Banker, Admin

5.6.2 Understand-ability and Politeness Requirements

This section describes more requirements of Bank Management to add more features in future.

UHR-02	The features of Bank Management
Description	The system is more efficiently ease of use more added features .The system is understand-ability for both user. The system will not use any term that is not specified in this system.
Stakeholders	User

5.6.3 Accessibility Requirements

There are no access requirements beside those that have been outlined in the below:

AR-1: Log in as a User

AR-5: Log out as a User

To get access to this system or a specific module the system must provide a central authentication mechanism. In order to prevent anyone to exploit stolen all users password must be encrypted in hash process

5.6.4 User Documentation

UHR-03	The system developer documentation
Description	To develop this project we have specified requirement of user documentation. The teams are involved to this project documentation
Stakeholders	System Developer