Software Requirements Specification

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Bank Management System

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# Introduction

## Purpose

The purpose of this system is to provide reliability to all bank **Employee’s** and the **Customer’s.** With this system they can easily access the functions like transactions, Cash Deposit, Cash withdrawals, Etc...

## Document Conventions

IEEE standard is follow for this SRS; Highlightedwords are used for Functional Requirements.

## Intended Audience and Reading Suggestions

This SRS is suggested for all the Information System for developers, project managers, marketing staff, users, testers, and documentation writers. And they can easily read through in sequence. It contains all the requirements of the software and its functions and the flow of system.

## Product Scope

In this System **Employee’s** and the **Customers** can easily access their Account’s and do all kind of Transactions.

# Overall Description

## Product Perspective

All the Paper-work documentation is not usually safe. They can be Lost, Burned Etc.…

But this System provide data protection and backups on the system level.

## Product Functions

The product is divided in to two Main panels:

**First) Admin Panel Second) User Panel.**

**First): Admin Panel:** The admin panel is used by the administrator of this software and he/she can use the

**Following functions:**

**1st User Management:** In this function the admin can create the account of the customer/Employee, also he can edit/update the information of that customer/Employee.

**2nd Cash Deposits:** In this function the admin can deposit the cash to any customer’s account he

Want.

**3rd Check Transactions:** By clicking on this function, the admin can see all the transactions made in past day wise/weekly/monthly /yearly.

**4th Check Reports:** In this section the admin can see all the reports of transactions, deposits, withdrawals of a specific customer account.

**5th Balance Enquiry:** In this section the admin has a right to do balance Enquiry of any Account that he/she Want.

**6th Update Information:** In this function the Admin Can Update their Information.

**7th Cash Withdrawals:** In this function the Customers can withdraw the cash from their Account’s.

**Second): User Panel.** The User panel is used by the Customers of this software and he/she can use the

**Following functions:**

**1st Update Information:** In this function the Customers Can Update their Information.

**2rd Check Transactions:** By clicking on this function, the Customers can see all the transactions made in past day wise/weekly/monthly /yearly of their Account’s.

**3th Balance Enquiry:** In this section the Customer’s has a right to do balance Enquiry of his/her Account.

**4th Transfer Fund/Amount:** In this section the Customer’s has a right to do Transfer Fund/Amount any Account that he/she want.

## User Classes and Characteristics

**Educational Level:**

At least user of the system should be comfortable with the English Language which is use in this system.

**Technical Expertise:**

User should be comfortable with the general purpose applications.

## Operating Environment

This system will perform on Microsoft Windows 7,8,10, with Dot net Frame work 3.5 and Microsoft Access Database Installed.

## Design and Implementation Constraints

The product should be designed as desktop application with Microsoft access database should be used for database implementation, also the language should be in English.

## Assumptions and Dependencies

The Database (Microsoft Access database) should be connected with the software.

Metro forms libraries are dependent on the GUI.

# External Interface Requirements

## User Interfaces

The user will use the GUI to input required information. The user will be able to click on-screen buttons to move around the program. The user will also be able to click on fields to enter text into the text fields. The user will be able to use the tab key to move between fields. The user will be able to select checkbox if the given field required.

## Hardware Interfaces

Normal computer Specifications under Windows operating System can be used to run this software.

## Software Interfaces

This product will be created in Microsoft visual Studio with OLEDB connection 12.0 of Microsoft access database and the operating system will be Windows 7,8,10.

## Communications Interfaces

The software can be communicated on LAN network.

# System Features

## New Account

**4.1.1 Description and Priority**

This feature is applicable for administrators only, with this feature he/she can create all the Customer’s information. This feature is a high priority because without the list of Customer’s, doing transactions deposits and withdrawals is useless.

**4.1.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he will fill the information of the user i.e. User’s name, Address, Contact number, Email, Password, Age, Occupation, Annual income, opening amount and gender and then click create to create it or cancel to cancel it.

**4.1.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Deposit

**4.2.1 Description and Priority**

This feature is applicable for only administrators, with this feature the admin can deposit the cash in to the particular customer account. This feature is a high priority for depositing cash in the bank.

**4.2.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he will type the id of the customer in which he wants to deposit cash and the amount of cash he wants to deposit, but the amount should be greater than 500. after that he has to click on deposit button.

**4.2.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Withdrawal

**4.3.1 Description and Priority**

This feature is applicable for only Admin, with this feature the admin can withdraw the cash from the particular customer account. This feature is a high priority for withdrawing the cash out from the bank.

**4.3.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he will type the id of the customer from which he wants to withdraw cash and the amount of cash he wants to withdraw, but the amount should be less than the amount present in the bank account and the minimum amount should be 500.after that he has to click on Withdraw button.

**4.3.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## All Transactions/ User Transactions

**4.4.1 Description and Priority**

This feature is applicable for administrators and customers, with this feature the admin can see all the transactions history happened in the day wise/weekly/monthly/yearly of the bank while the same feature in user panel the customer can see all the transactions history happened in the day wise/weekly/monthly/yearly of his/her account.

**4.4.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where all the transactions will be shown in a grid view and he can click on refresh to refresh the list of the transactions. also the customer click on this feature a form will come where all the transactions will be shown in a grid view and he can click on refresh to refresh the list of the transactions.

**4.4.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Balance Inquiry

**4.5.1 Description and Priority**

This feature is applicable for both administrator or customer, with this feature the admin/customer can see the name of the account holder, his current balance and his transactions. Same feature in user panel the customer can see the, his current balance and his transactions

**4.5.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he can type the ids of all the account holders and then click on check balance, after that the selected Id’s account holder name, his current balance in the bank and his transactions will be shown in a grid view. But customer click on this feature, a form will come where he can select balance enquiry his current balance in the bank and his transactions will be shown in a grid view.

**4.5.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Update/Edit Account

**4.6.1 Description and Priority**

This feature is applicable for administrators and customers, with this feature the admin can update all the user’s information holding account in the bank where as the customer can only update his own account himself. This feature is a medium priority.

**4.6.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he will type the id of the account holder and then can fill the new information of the user i.e. User’s name, Address, Contact number, Email, Password and then click Update to update it.

**4.6.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc.…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Reports

**4.7.1 Description and Priority**

This feature is applicable for administrators only, with this feature the admin can see all the transaction reports of a specific account holder. This feature is a high priority.

**4.7.2 Stimulus/Response Sequences**

When admin will click on this feature, a form will come where he will type the id of the account holder and then can select the dates where the transactions occurred and then click check to check it all in a grid view.

**4.7.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

## Transfer FUND/AMOUNT

**4.8.1 Description and Priority**

This feature is applicable for Customer only, with this feature the Customer can transfer the fund or amount in any other account.

**4.8.2 Stimulus/Response Sequences**

When customer will click on this feature, a form will come where he will type amount and the account number of the account holder where he/she want to transfer the fund or amount and then click transfer after confirmation money transfer.

**4.8.3 Requirements**

***User Satisfaction:***

This system is such that it stands for user expectations.

***Response Time:***

The Response of all the program is good. This has been made possible by careful Object Oriented Programming.

***Portable:***

The software should not be Architecture specific. It should be easily transferable to other plate forms. Through any kind of data transfer protocol. USB, Email etc…

***User Friendly:***

The System is easy to learn and understandable. All the feature should be user friendly.

# Other Nonfunctional Requirements

## Performance Requirements

The program should run at such a speed that the user can move at his/her own pace, without noticing interruption due to processing.

## Safety Requirements

* Dependence on administrative procedures for risk control is minimized.
* The number and complexity of safety critical interfaces is minimized.
* The number and complexity of safety critical computer software components is minimized.
* Sound human engineering principles are applied to the design of the software-user interface to minimize the probability of human error.
* Failure modes, including hardware, software, human and system are addressed in the design of the software.
* Sound software engineering practices and documentation are used in the development of the software.

## Security Requirements

The system must log out all the costumer after a period of inactivity. If Suspicious Amount Transaction Occurs Manual verification should be taken to confirm it.