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Banking Application

Software Requirements Specification (SRS) Document

Sprint Implementation

Project Timeline: 03.10.2022 to 08.10.2022

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# SoftwareRequirementsSpecification

## Introduction

The introduction of the Software Requirements Specification (SRS) provides an overview of theentire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview ofthe SRS. The aim of this document is to gather and analyze and give an in-depth insight of thecomplete **Banking Application** by defining theproblem statement in detail. The purpose of this document is that the requirements mentioned in it should be utilized by software developer to implement the system. This application will support banking transaction.The detailedrequirements of the **Banking Application** are provided in thisdocument.

* 1. **Purpose**

The banking system is specifically developed for banking application with facilities of account opening, deposit & withdrawal. Secondly, the application also allows only the authorized bank personnel to transfer money from one account in the same bank to another. This system also allows banking personnel to edit and delete customer details as well as generate customer report & transaction report.

In short, the purpose of this SRS document is to provide a detailed overview of our softwareproduct, its parameters and goals. This document describes the project's target audience and itsuser interface, hardware and software requirements. It defines how our client, team and audiencesee the product and its functionality. Nonetheless, it helps any designer and developer to assist insoftware deliverylifecycle(SDLC)processes.

* 1. **Scope**

Primarily, the scope of the banking application features to ensure smooth banking operations.The main aim of an application is to somewhere automate records on the system. It gives all sorts of functions which are required by the bank in order to run a stable system. In addition to that it also helps to manually check the records of the pre-existing system like transactions that are made in the past. The application also changes or manipulates the new data that is being added and is then re-recorded. One can also check their present transactions that are in process and keep a check on their accounts via this application. It’s not only useful for the customers but also for the admin.

This SRS is also aimed at specifying requirements of software to be developed but it can also be applied to assist in the selection of in-house and commercial software products. The standard can be used to create software requirements specifications directly or can be used as a model for defining a organization or project specific standard. It does not identify any specific method,nomenclatureor toolfor preparinganSRS.

* 1. **Definitions,Acronyms,andAbbreviations**

|  |  |
| --- | --- |
| SA | Savings Account |
| CA | Current Account |
| MAB | Minimum Account Balance |

* 1. **References**

Thereferences are:

1. <https://www.programiz.com/dsa/linked-list>
2. <https://www.javatpoint.com/file-handling-in-c>
3. <https://www.educative.io/answers/how-to-create-a-simple-thread-in-c>
   1. **Overview**

Theremaining sectionsofthisdocumentprovideageneraldescription,includingcharacteristicsof the users of this project, the product's hardware, and the functional and data requirements oftheproduct.General descriptionoftheproject isdiscussedin section2ofthisdocument.

Section 3 gives the functional requirements, system features and constraints made while designing the system.Section 3 also discusses the external interfacerequirements and gives detailed description of functional requirements. Section 4 is forsupporting information.

## OverallDescription

The Traditional way of maintaining details of a user in a bank was to enter the details in a form and record them manually. Every time the user needs to perform some transactions he has to go to bank and perform the necessary actions, which may not be so feasible all the time. It may be a hard-hitting task for the users and the bankers too. The project gives real life understanding of Internet banking and activities performed by various roles in the supply chain. Here, we provide an automation for banking system through Internet. Internet banking system project captures activities performed by different roles in real life banking which provides enhanced techniques for maintaining the required in- formation up-to-date, which results in efficiency. The project gives real life understanding of Internet banking and activities performed by various roles in the supply chain.

It further listsandbrieflydescribesthe majorfeatures andabriefdescriptionofeach of the proposed system.

## SpecificRequirements

The specific requirements are–

* 1. **Functionality**

Introduction–

This subsection contains the requirements for the online banking system. These requirements are organized bythefeatures discussedinthecase study provided to us.Featuresfromcase studyarethenrefinedinto use case diagrams and to sequence diagram to best capture the functional requirements ofthesystem.

* + 1. **Login**

1. Customer : Customer logins by entering customer’s account number & a login password.
2. Banker: Banker logins by entering banker’s id & a login password.
   * 1. **Customer’s Corner**
        1. Create\_Account : The customer can create account by entering aadhar number and account type (SA or CA).Every Aadhar number entered should be unique. According to the type of account, MAB is added to the balance of created account.

MAB for following account type :

1. SA : Rs 5000
2. CA : Rs 10000
   * + 1. Do\_Transaction
3. Deposit : This function will add the deposited amount to the current balance.
4. Withdraw : This function will deduct the withdraw amount from the current balance.
   * + 1. View\_Balance : This function will display the details from customer file.
     1. **Banker’s Corner**
        1. Edit\_Customer\_Details: The banker can edit the customer’s name , account type and balance.
        2. Delete\_Customer\_Details: The entire customer record is deleted from database.
        3. Do\_Transfer : The banker transfers the amount from source account to destination account.
        4. Get\_Transaction\_Report :The bank statement showing credit and debit information of corresponding account must be displayed on the screen.
        5. Get\_Customer\_Report: The bank statement showing customer details, credit and debit information of corresponding customer account must be displayed on the screen.
   1. **System Features**
      1. **Reliability&Availabilit****y**

The system is available when the user requests for service. The system is available 24/7.

* + 1. **Performance**

The system will work on the user’s terminal. Theperformance shalldependuponhardwarecomponentsofthebanker/customer and the internet connection .

* + 1. **Security**
       1. **Login**

The customer can login the banking application to check the balance directly using his banking password. After login the customer is also allowed to change this password. The banker can login with a administrative password to edit or delete the customer details and transfer money from one account to another**.**

* + - 1. **Token**

For any deposit/withdraw transaction the customer needs to acquire a token and only then he/she can go ahead with transaction. When the bank personnel try to transfer money from one account to another then also,they need to acquire the token .This is to prevent concurrency problem which can lead to multiple access to the account at the same time.

* + 1. **Supportability**

The system is easy to maintain.

* 1. **Design Constraints**

The banking application system is built using only C language which puts certain limitation to the visual appeal of the software.

* 1. **Usability**

The banking system is essential for keeping digital records ofcustomer data. The banking system is the process of storing andtracking data on customers and leads. The software can handle basicinformation such as name and account details as well as transaction details.

* 1. **Interfaces**

Therearemanytypesofinterfaces assuchsupportedbythebank applicationsystemnamely : Software Interfaceand HardwareInterface.

* + 1. **HardwareInterfaces**

Sincetheapplicationmustrunovertheinternet, allthehardwareshallrequiretoconnectinternet will be hardware interface for the system.

Various interfaces for the product could be

1. Touch screen/Monitor with 8 GB RAM

2. Keypad

3. Continuous battery backup

4. Interface that connects the device to bank’s computer.

* + 1. **SoftwareInterfaces**

1. Any Linux operating system.
2. Programming Language : C Language
3. The final application must be packaged in a set up program, so that theapplication can be easily installed on machines. This application must be networked to corresponding banks

* 1. **LicensingRequirements**

Not Applicable

* 1. **ApplicableStandards**

It shall be as per the industry standard.

## SupportingInformation

Pleasereferthefollowingdocument:

1. Case study 7 Banking Application System