**Banking System**

1. **INTRODUCTION**

The purpose of this document is to build an **Online Banking** that allows account holders to view mini/detailed statements and do fund transfer .It allows the bank admin to create account and view all transactions on a website.

**INTENDED AUDIENCE AND READING SUGGESTIONS**

This is a prototype of **Online Banking system** and it is restricted within the certain limits.

**Purpose**

The purpose of the online Banking system is to ease the process of accounting. We will have database to support this operational.

## 2. OVERALL DESCRIPTION

The Online banking system will work as a one stop solution for banking application. There are two types of users who would access the system viz. Account Holder and Bank administrator.

**Online Banking** allows account holders to view mini/detailed statements and do fund transfer .It allows the bank admin to create account and view all transactions on a website

**USER CLASS and CHARACTERISTICS**

1. Account holders
   * Login into the system using his/her credentials.
   * View Mini /Detailed statement of all the accounts (Mulitple accounts , if any can be viewed)
   * Request for change in communication address/mobile number for bank account
   * Fund Transfer
   * Fund Transfer
   * Change password
2. Bank Admin

A set of administrators are assigned for managing the system. An admin has been assigned a set of privileges to manage the system. An admin can perform the following functionalities:

* + Create a new Account upon request.
  + Can view the reports of overall transactions on daily/monthly/quarterly/yearly basis.

**OPERATING ENVIRONMENT**

Operating environment for the Banking system is as listed below.

* client/server system
* Operating system: Windows.
* database: MySql
* front-end: Angular Framework or React Library , BootStrap
* Middleware: Spring
* Server system: Apache Tomcat

## 3. EXTERNAL INTERFACE REQUIREMENTS

**USER INTERFACES**

* Front-end software: Angular or REACT
* Middleware: Spring
* Database: MySql

**HARDWARE INTERFACES**

* Windows.
* A browser which supports CGI, HTML & JavaScript. i.e. Internet Explorer 9 or Chrome and above

**SOFTWARE INTERFACES**

Following are the software used for the Banking system online application.

|  |  |
| --- | --- |
| **Software used** | **Description** |
| Operating system | We have chosen Windows operating system for its best support and user-friendliness |
| Database | To save the banks records, user records we have chosen MySql database |
| Java ,Spring Boot, Angular Or React | Server side we need to implement Spring .To implement the project we have chosen Angular or React library as a front end for its more interactive support. |

**COMMUNICATION INTERFACES**

This project supports all new web browsers and I.E 9 and above. We are using simple html forms and bootstrap tables to showcase data.

# **Class Diagram**

Customer class – Customer can deposit, withdraw & get account information. Customer can request for mini statement & change for address & phone number



Account Class



Transaction Class



The Below class diagram have 4 interfaces –

* 1. OnlineBankingAccountService-

Services for get account balance, withdraw amount, deposit account

* 1. OnlineBankingPrintService

Services for print the mini statement

* 1. OnlineBankingChangeService

Services to change phone number & address

* 1. OnlineBankingDao

Abstract the logic required to access the underlying data stores & it centralize common data access functionality in order to make the application easier to configure and maintain.

Other than Interface there are implementation classes in respect to interfaces

* 1. OnlineBankingAccountServiceImpl-

Services logics get implemented for get account balance, withdraw amount, deposit account

* 1. OnlineBankingPrintServiceImpl

Services logics for print the mini statement

* 1. OnlineBankingChangeServiceImpl

Services logics to change phone number & address

* 1. OnlineBankingDaoImpl
  2. OnlineBankingTestSuit
  3. OnlineBankingException
  4. OnlineBankingTestUI

