

# **Project on Core Java**

## **Banking System**

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## **ACKNOWLEDGEMENT**

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Furthermore, I would also like to acknowledge with much appreciation the crucial role of the staff of Computer Laboratory, who gave the permission to use all required equipment and the necessary materials to complete the task of getting information regarding this topic.

I have to appreciate the guidance given by other supervisor as well as the panels especially in our project presentation that has improved our presentation skills thanks to their comment and advice.

## **CANDIDATE'S DECLARATION**

I hereby declare that the work which is being presented in the project synopsis entitled **Banking System** is an authentic record of our own work carried out during a period from December 2017 to January 2018 under the supervision of Mr. Surajit Giri. The matter presented in this project synopsis has not been submitted by me in any other University / Institute for any award.

## **ABSTRACT**

The aim of this project is to develop a Standalone Application to facilitate the activities that take place in a Financial Institution/ Bank. The system developed enables Bank Staffs and Customers to manage the Banking System.

The goal of this project is to sort out the functioning of any Bank and to keep its affairs simple and user friendly. The following documentation is a briefing done on the project wherein all the requirements and specifications are mentioned. Moreover, it also describes and user manual where description of functioning of each segment is well depicted.

This system is used by different types of users. If the user is a Bank Admin, it allows him/her to create new account, deposit and withdraw money, check the balance and mini statement.

If the user is a Customer, it allows him/ her to check the balance and mini statement and also change the a/c password.

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## **INTRODUCTION**

### **||Objective||**

The purpose of this document is to provide an working service to sort the Banking System.

It explains each and every aspect of the project and also provides a detailed description of how to use the software properly. This documentation is to explain the overall working of the software. It contains the project description i.e. how the Bank works.

Since this is a software, it has to be governed by a set of people, here the administrative functions are to be headed by the Bank staff. Firstly, the Bank Admin has access to all parts of the software, manages the databases and accounts through a character user interface. Customers can only get to know about the details of their Bank accounts.

### **||Intended Audience||**

This software is designed as a service which can be delivered to the financial institutes so as to make the entire governance of Bank and its management. It is made for Bank Admins and Customers to keep an eye over their Bank accounts.

From a user's point of view the target audience include:

- Retail Bank
- Co-operative Bank

This documentation provides a complete user manual to use this software in a simple language by which users no matter from what background can use it effectively.

### **||Product Scope||**

The system developed is a software used for general purposes for a Financial Institution. This project is just like any other project implemented by a particular institute to manage their Bank administration. But there is a difference. Not only does this project cater to the needs of the Bank but also, it caters to the needs of a Bank staffs and Customers.

## **Specifications**

### Languages Used

#### JAVA 8

Java 8 is a general-purpose computer programming language that is concurrent, class-based, object-oriented and specifically designed to have as few implementation dependencies as possible. It is intended to let application developers "write once, run anywhere" (WORA),

#### Oracle

Oracle has been used to implement queries for inserting, altering, retrieving and updating data in the database. JDBC (Java Database Connectivity) has been used to connect the Java Program to Database.

#### Platforms Used

- Notepad
- Oracle 10g Express Edition

## **Architecture**

This project consists of 2 Modules

- Bank Admin
- Customer

### **Bank Admin**

The admin has access the database and can create new account, deposit and withdraw money, check the balance and mini statement.

### **Customer**

Customer can view his/ her Bank a/c which allows him/her to check the balance and mini statement and also change the a/c password.

## **Project**

The first window of the software is the home window which has a navigation bar navigating to other windows of the software.

- Home
- Login
  - Admin Login
    - Create Account
    - Deposit
    - Withdrawl
    - Balance Check
    - Mini Statement
  - Customer Login
    - Balance Check
    - Mini Statement
    - Password Change

## **Objectives**

- Automated Workflow
- Paperless Office
- Profiles Management

## **DATABASE DESIGN**

ENTITY	ATTRIBUTE
Bank_admin	User_id(P.K), Password
Bank_customer	Accno(P.K), Name, Phno, Addr, Aid, Password
Bank_Transaction	Accno(P.K), Tid(P.K), Damt, Wamt, Balance

## **DATABASE DESCRIPTION**

Bank\_admin-

Userid of Bank staffs

Password-Password of Bank Staffs.

Bank\_customer-

Accno-Account No of Customer

Name-Name of the Customer

Phno-Phone No of Customer

Addr-Address of Customer

Aid-Aadhar ID of Customer

Password-A/C Password of Customer

Bank\_transaction:

Accno-Account No of Customer

Tid-Transaction ID

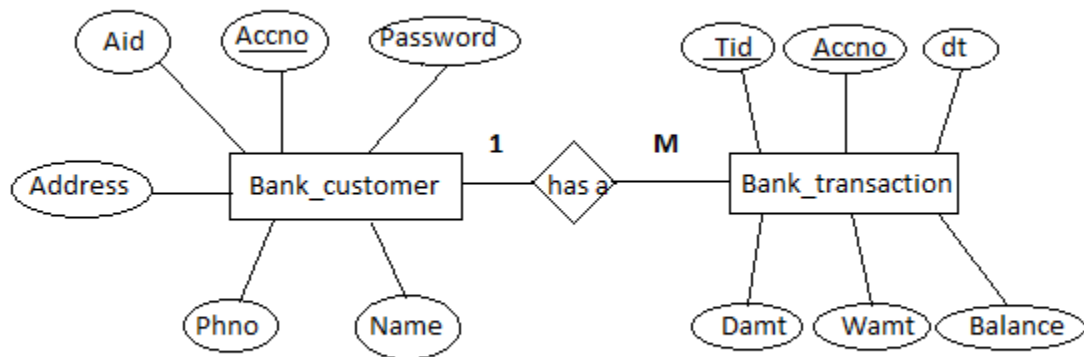
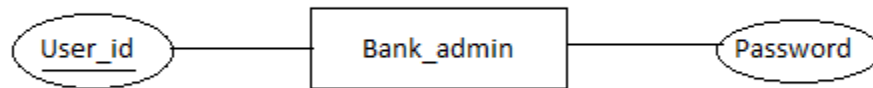
Damt- Deposit Amount

Wamt- Withdrawl Amount

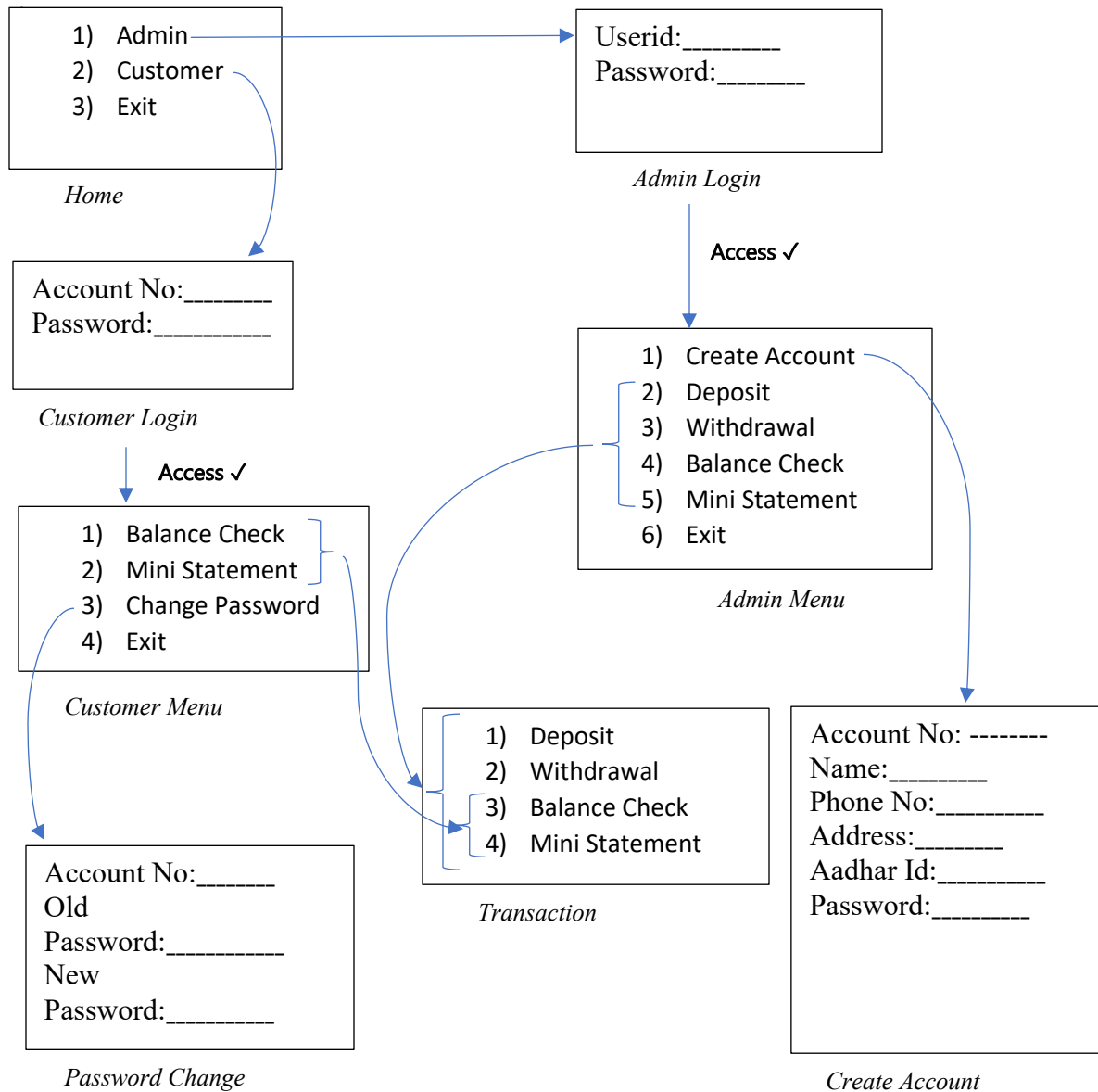
Balance-Net account Balance of Customer



## ER DIAGRAM



## Process Diagram:



## **LIMITATION**

The project seems so far so good and would come in very handy at many financial institution of various levels but it starts looking incomplete or dull when it comes to following part:

- \*Not device independent, JVM have to be installed
- \*Do not have interactive graphical interface
- \*Offline

## **FUTURE PROSPECTS**

- \* Adding features like Balance Transfer.
- \*Adding encryption for security.
- \*Adding different types accounts (Fixed Deposit, Savings A/C, Current A/C)

## **CONCLUSION**

After we have completed the project we are sure the problems in the existing system would overcome. The “Banking System” process made computerized to reduce human errors and to increase the efficiency. The main focus of this project is to lessen human efforts. The maintenance of the records is made efficient, as all the records are stored in the ACCESS database, through which data can be retrieved easily.