

# **Console Based Banking Application**

## **Low Level Design(LLD)**

# Contents

Abstract	1
1.Introduction	2
1.1Why this Low-Level Design Document?	2
1.2 Scope	2
2. General Description	3
2.1 Product Perspective	3
2.2 Problem statement	3
2.3 Proposed Solution	3
2.4 Further Improvements	3
2.5 Technical Requirements	3
2.6 Data Requirements	4
2.7 Tools used	4
3. Design Details	5
4. System Study and Technology	8
5. Output	9
6. Conclusion	12

## **ABSTRACT**

The Project Banking Application in java is a console based java application. This is somewhat complex Java project which consists of five different classes and is a console-based application. When the system starts the user is prompted with an Account number and password. After entering the details successfully, the functionalities are unlocked and functionalities provide by this application are Check Balance, Deposit Money, Withdraw amount and exit..

We Can even use this code for web application by adding some additional features Using JDBC and servlets. We are developing Basic code for Banking Application using eclipse. Additionally, this project is to provide additional features to the user's workspace that are not available in a traditional banking system.

# **1 .Introduction**

## **1.1. What this Low-Level design document?**

The goal of LLD or a low-level design document (LLD) is to give the internal logical design of the actual program code for Concole based Banking System. LLD describes the class diagrams with the methods and relations between classes and program specs. It describes the modules so that the programmer can directly code the program from the document.

## **1.2. Scope**

Low-level design (LLD) is a component-level design process that follows a step-by-step refinement process. This process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the data organization may be defined during requirement analysis and then refined during data design work

## **2 General Description**

### **2.1 Product Perspective**

The project main goal is to create an online banking system for banks. All banking work is done manually in the current system. To withdraw or deposit money, the user must go to the bank. Today, it is also hard to find account information of people who have accounts in the banking system.

### **2.2 Problem statement**

This project is to provide additional features to the user's workspace that are not available in a traditional banking project. It provides some basic functionalities like check balance, withdraw, deposit money and exit console.

### **2.3 Proposed Solution**

The solution proposed here is a console based application using Java. Without manually going to bank, it provides basic functionality based on the user requirement but this solution is limited to the user console using Eclipse.

### **2.4 Further Improvements**

Our project is limited to only one user working only with the help of console input. Where here we are not using database to store multiple records of the user and provide service to the multiple user based on their user request. We can even develop this project by using JDBC and we make this project more advanced making it a web based application using servlets.

### **2.5 Technical Requirements**

As it is a console based basic project we may not require much technology. We just require IDE (Integrated Development Environment). So we use Eclipse for providing console based application.

## 2.6 Data Requirements

We don't require much info externally for this project. we just require Account number and password as input from the console and perform operation according to the user specification.

## 2.7 Tools used

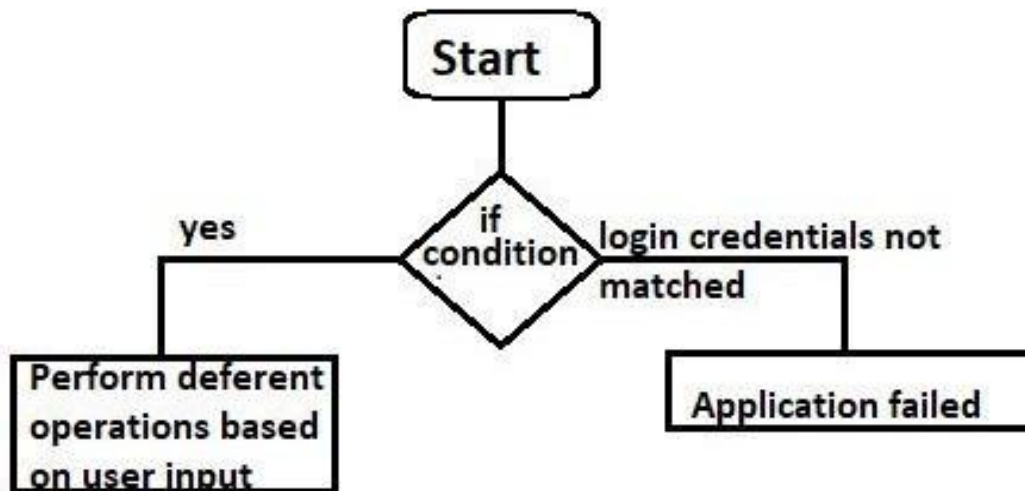
- Java programming language

Eclipse

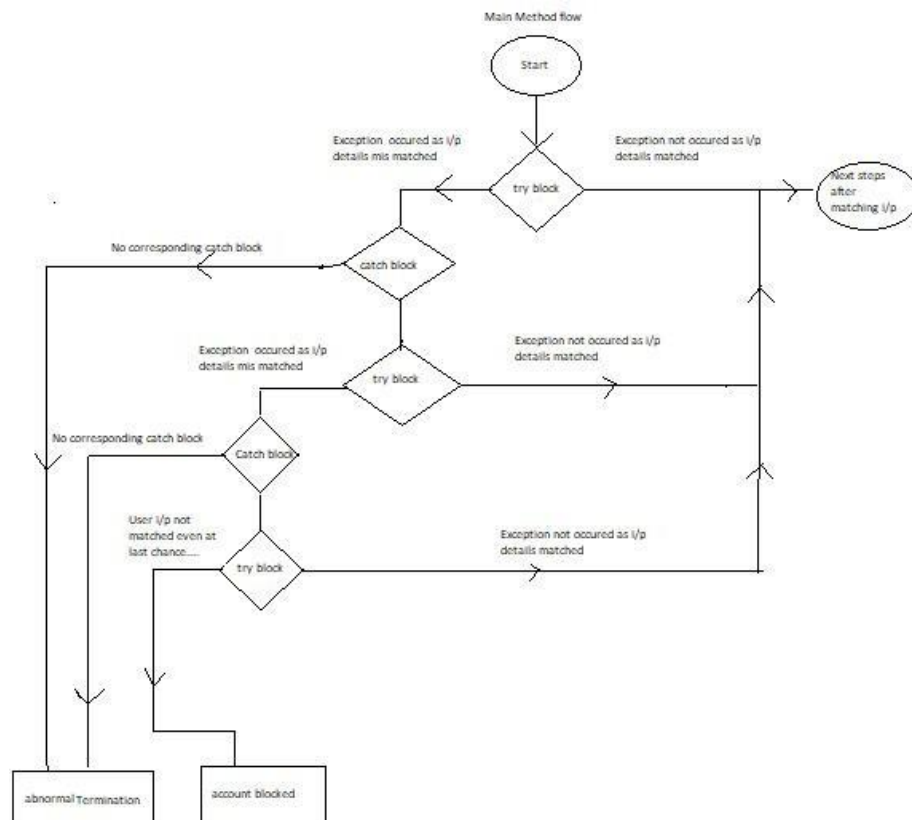
### 3. Design Details

#### 3.1 Process Flow

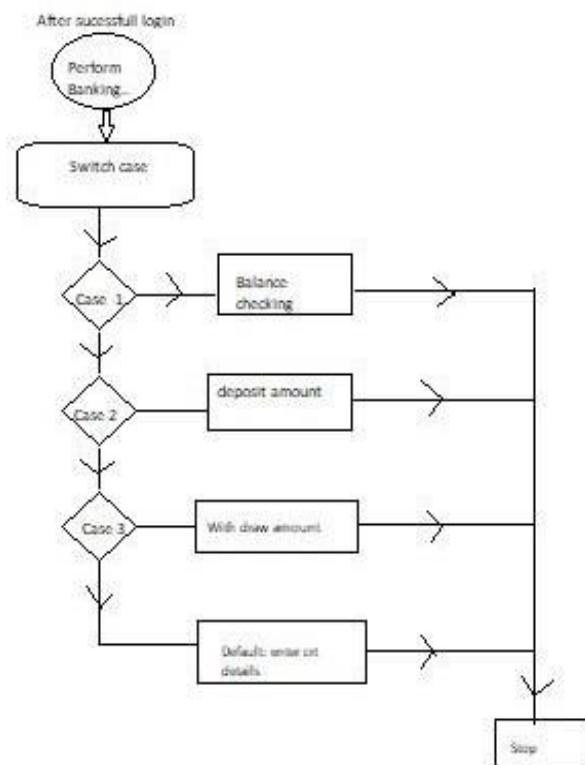
Below is the simple flow diagram for the banking application.



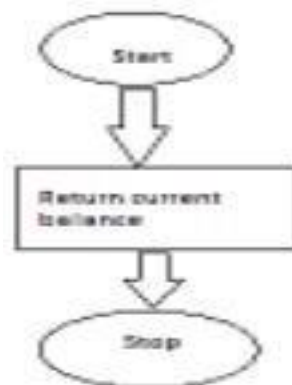
Login Credentials checking:



Operation done After success full login :

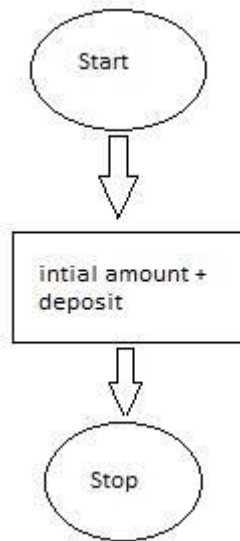


Balance Checking:

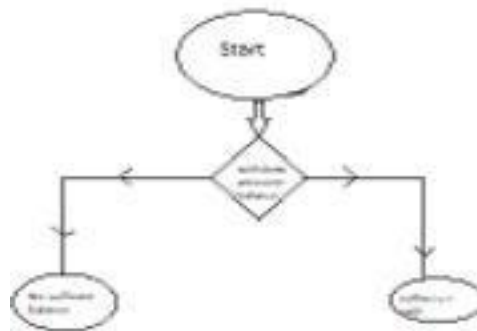




Deposit:



With Draw:



## **4. SYSTEM STUDY AND TECHNOLOGY**

### **4.1 BENEFITS OF ONLINE BANKING SYSTEM:**

- Time saving.
- Less paper works.
- Cost efficient.
- More comfortable environment.
- Convenience and flexibility

### **4.2 SOFTWARE REQRIMENTS:**

- Java(Programming Language)
- Eclipse(IDE)

## 5. OUTPUT

Fig:5.1

```
<terminated> BankingApplication [Java Application] C:\Users\WINDOWS 10 PRO\OneDrive\Desktop\soft
welcome...! please enter your login details to access our services
enter userName
12345@upi
enter password
12345
enter whether u want to check your balance r deposit r withdraw
check
your account balance is 20000
Thankyou for using our application.
```

Fig : 5.2

```
<terminated> BankingApplication [Java Application] C:\Users\WINDOWS 10 PRO\OneDrive\Desktop\software\eclipse\plugi
welcome...! please enter your login details to access our services
enter userName
1234
enter password
123445
credentials mismatched please enter again
enter userName
12345@upi
enter password
12345
enter whether u want to check your balance r deposit r withdraw
balance
enter proper value to work on your account :(
```

Fig : 5.3

```
welcome...! please enter your login details to access our services
enter userName
1
enter password
21243
credentials mismatched please enter again
enter userName
12345@upi
enter password
467
credentials mismatched please enter again
enter userName
234
enter password
12345
temporarily your account blocked, you entered wrong credentils too many times
```

Fig 5:4

```
<terminated> BankingApplication [Java Application] C:\Users\WINDOWS 10 PRO\OneDrive\Desktop\software\eclip
welcome...! please enter your login details to access our services
enter userName
12345@upi
enter password
12345
enter whether u want to check your balance r deposit r withdraw
deposit
enter how much money u want to deposit
876857
successfully 876857 was Deposited to your account
now your balance after deposit is 896857
```

Fig 5.5

---

```
elcome...! please enter your login details to access our services
nter userName
2345@upi
nter password
2345
nter whether u want to check your balance r deposit r withdraw
ithdraw
nter how much money you want to withdraw
89
uccessfully 789 was withdrawn from your account
ow your balance after withdraw is 19211
```

**6.**

## **CONCLUSION**

This Basic console based application which help to perform some basic banking applications like Check Balance,Withdraw Money Deposit and exit the console is very efficient and convenient for the user..

