

Low Level Design(LLD)

Console Based Banking Application

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ABSTRACT

The Project Banking Application in java is console based java application. This is somewhat complex Java project consists of five different classes and is a console-based application. When the system starts the user is prompted with a user id and user pin. After entering the details successfully, the ATM functionalities are unlocked and functionalities provided by this application are like Checking 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 project.

1 .Introduction

1.1. What is Low-Level design document?

The goal of LLD or a low-level design document (LLDD) is to give the internal logical design of the actual program code for Food Recommendation 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 for 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 checking 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 the this project we just take username and password as input from the console and perform operation according to the user specification.

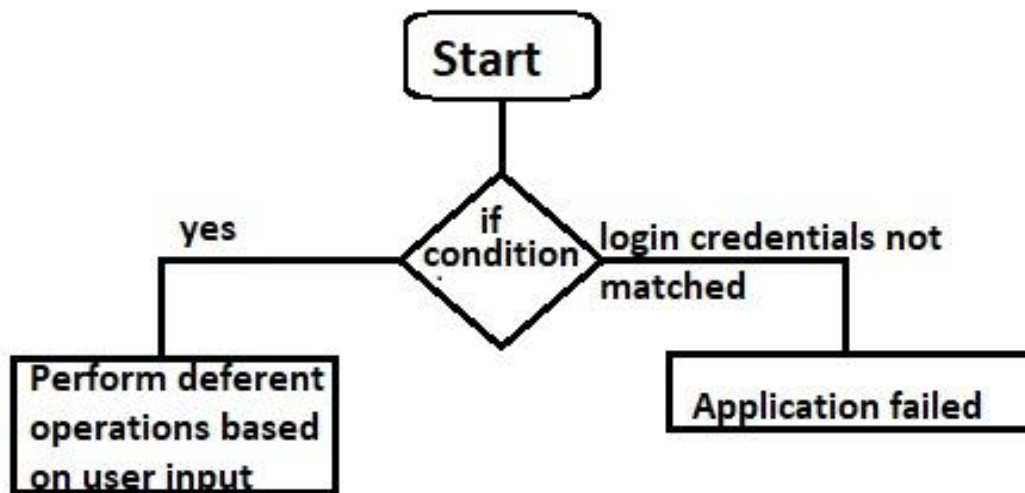
2.7 Tools used

Java programming language and eclipse.

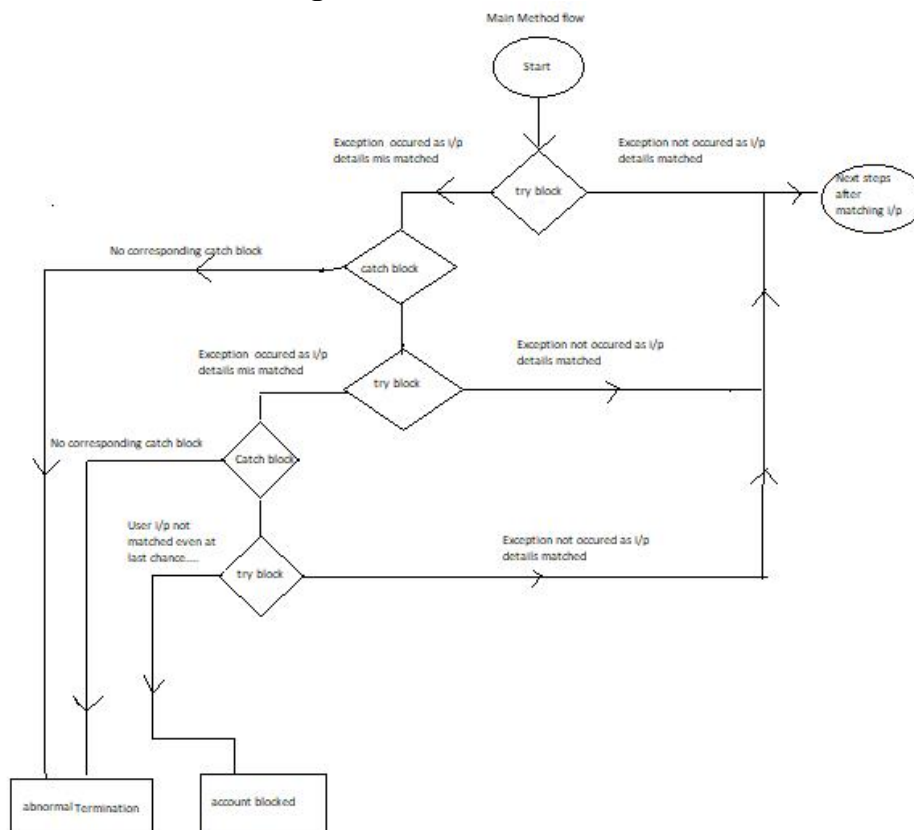
3. Design Details

3.1 Process Flow

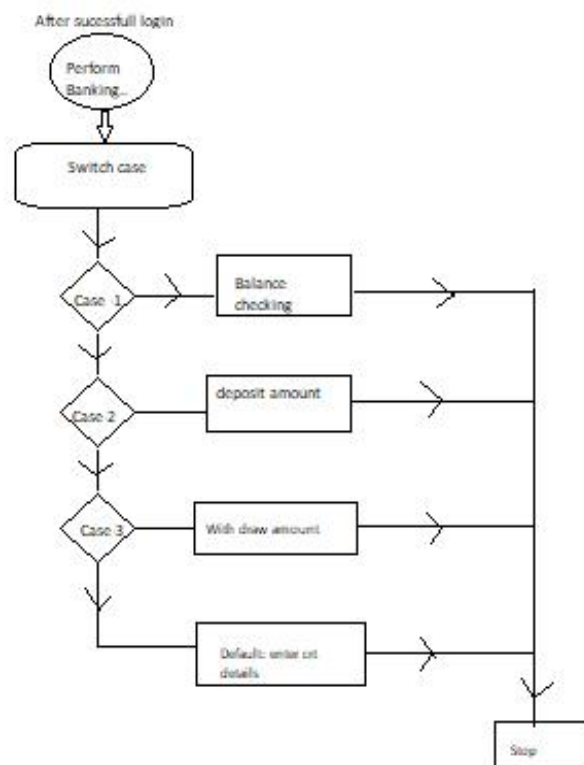
Below is the simple flow diagram for the banking application.



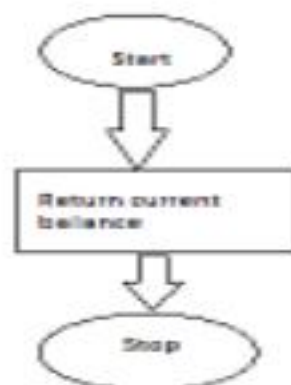
Login Credentials cheacking:



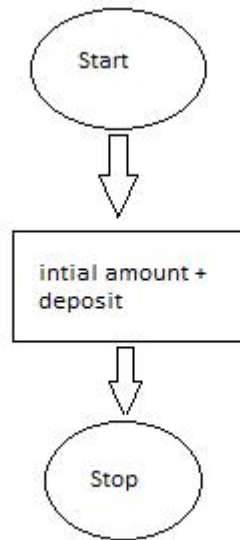
Operation done After success full login :



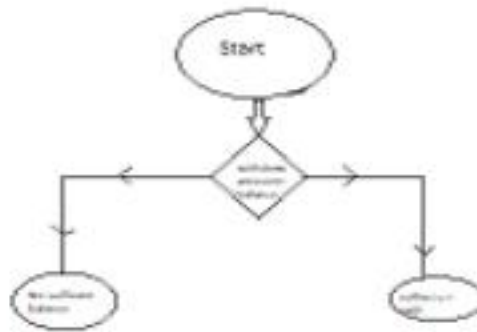
Balance Checking:



Deposit:



With Draw:



4.SYSTEM STUDY AND TECHNOLOGY

4.1 BENEFITS OF ONLINE:

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

4.2 SOFTWARE REQRUMENTS:

- 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 Checking Balance,Withdrawing Money and Deposition.

