

# **JAVA PBL**

## **Topic : BANKING SYSTEM**

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### **Abstract :**

This software will be provided as a tool to the BANK. The BANK has been working for Confidential Accounts information , Withdrawal, Deposit amount. In this Software you can keep record for daily Banking transactions. All the data is stored in a confidential manner. THE OBJECTIVE is to prepare a software or application, which could maintain data & provide a user friendly interface for retrieving customer related details just in few seconds, with 100% accuracy. Software is completely computerized, so it is not time consuming process. No paper work required & can be implemented further.

**Keywords:** Banking System, Transaction, Withdraw, Deposit, Check Balance

## Objective :

The objective & goals of the proposed system are :-

To allow only authorized user to access various functions and processed available in the system. Reduced clerical work as most of the work done by computer. Provide greater speed & reduced time consumption. To increase the number of A/C and customer. This will reduced the manual workload and give information instantly.

## Project description in short :

Basically, this project is based on the crucial system i.e. Banking system. This banking system consist of account holder's information and through this one can withdraw and deposit amount from his/her account. The main part in this system is the maintenance of database. The data is stored in a confidential manner so that no one can access any other's data. **MYSQL** is used for database maintenance and **Swing (Java)** is used for designing GUI. Concept of **JDBC connectivity** is used. Here, for maintaining database effectively we have used concurrent server mechanism that means the server iterates through each client and serves one request at a time. Alternatively, a server can handle multiple clients at the same time in parallel, and this type of a server is called a **concurrent server**.

## **Hardware Requirements :**

- ✓ Processor : Pentium 4 or above
- ✓ RAM : 1 GB (min)
- ✓ Hard Disk : 1 GB (min)
- ✓ Screen : Any

## **Software Requirements :**

- ✓ Operating System : Windows or Linux
- ✓ Front end tool : JAVA, Swing
- ✓ Back-end tool : MYSQL
- ✓ S/W development kit : java JDK version

## **Code Repository Link :**

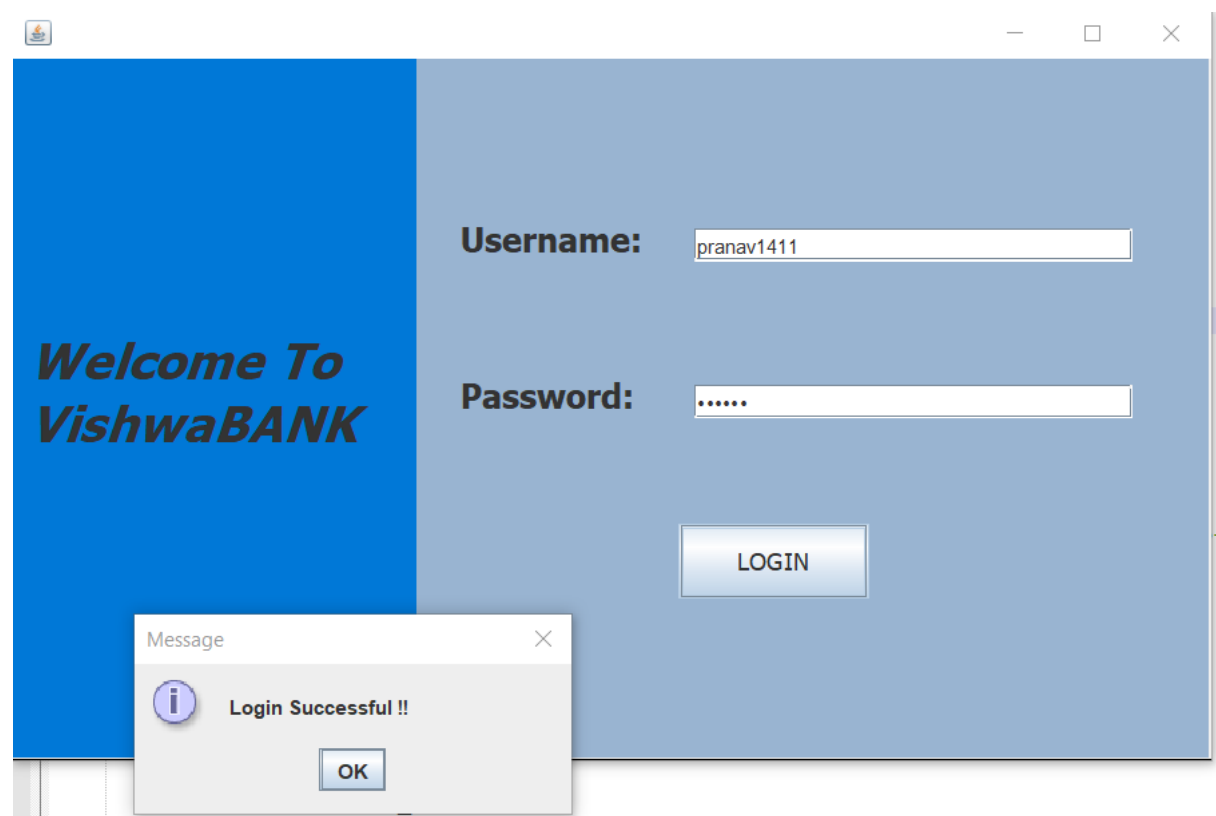
<https://github.com/Pranav-Wagh/Java-Banking-system-PBL>

## Output :

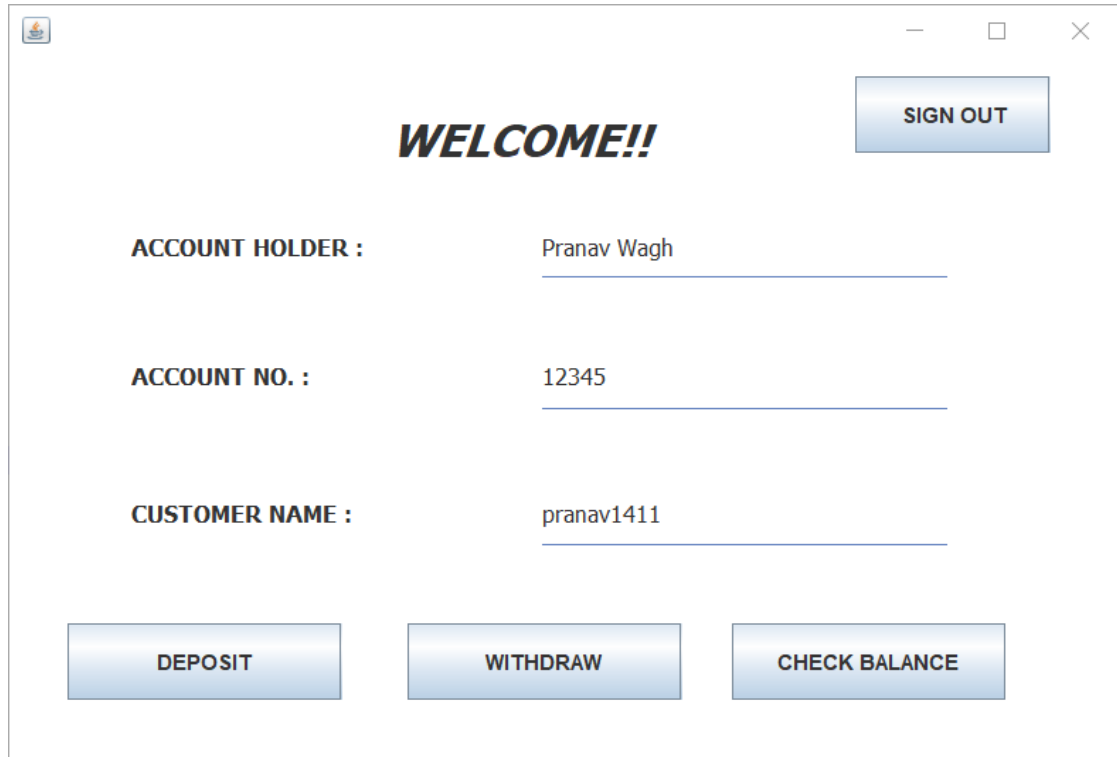
### ✓ MYSQL Database:

```
mysql> use pbl;  
Database changed  
mysql> select * from bank_db;  
+-----+-----+-----+-----+-----+  
| cust_nm      | pass      | full_nm      | acc_no | bal      |  
+-----+-----+-----+-----+-----+  
| pranav1411    | girerm    | Pranav Wagh  | 12345  | 100000   |  
| digvijay1703  | uzxmzarp  | Digvijay Pawar | 22345  | 99500    |  
| harshal1999   | yrijyrc   | Harshal Humne | 32345  | 99000    |  
| samruddhi2804 | jrdiluuyz | Samruddhi Desai | 42345  | 99999    |  
| jeet2003      | avvk      | Jeet Kansagara | 52345  | 100000   |  
+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

### ✓ Login Page :



## ✓ Information page of Account Holder

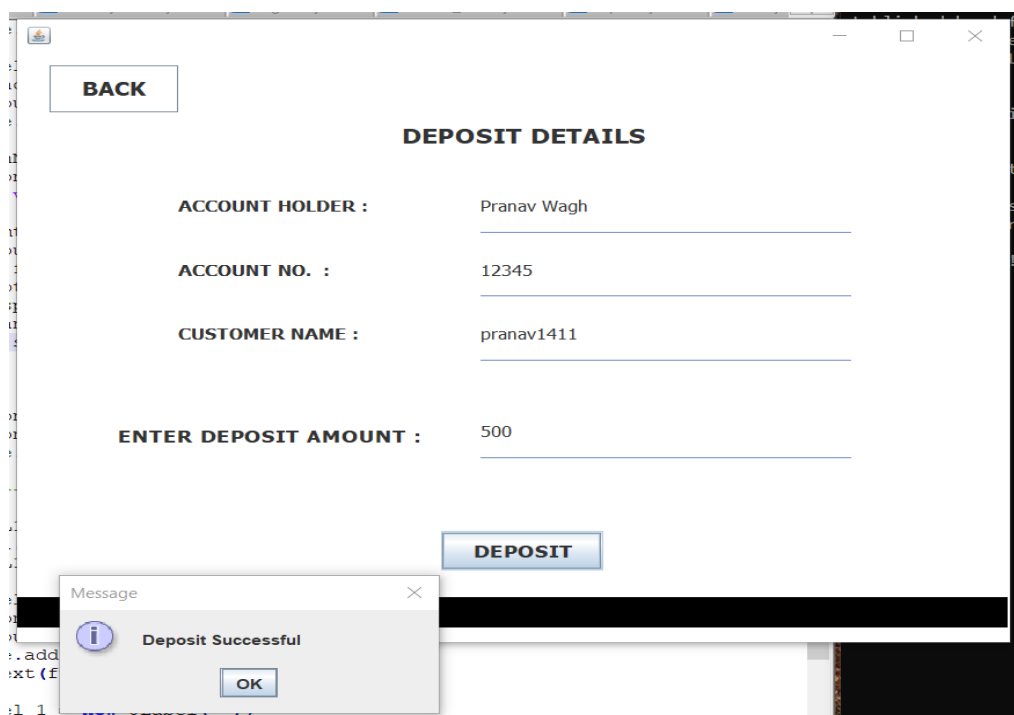


A screenshot of a web application window titled "WELCOME!!". The window has a standard Windows-style title bar with minimize, maximize, and close buttons. In the top right corner, there is a "SIGN OUT" button. The main content area displays the following information:

- ACCOUNT HOLDER :** Pranav Wagh
- ACCOUNT NO. :** 12345
- CUSTOMER NAME :** pranav1411

At the bottom of the window, there are three buttons: "DEPOSIT", "WITHDRAW", and "CHECK BALANCE".

## ✓ Deposit page :



A screenshot of a web application window titled "DEPOSIT DETAILS". The window has a standard Windows-style title bar. In the top left corner, there is a "BACK" button. The main content area displays the following information:

- ACCOUNT HOLDER :** Pranav Wagh
- ACCOUNT NO. :** 12345
- CUSTOMER NAME :** pranav1411
- ENTER DEPOSIT AMOUNT :** 500

At the bottom right of the window, there is a "DEPOSIT" button. A small "Message" dialog box is open in the foreground, displaying the text "Deposit Successful" and an "OK" button.

## ✓ Withdraw Page :

The screenshot shows a Java Swing window titled "WITHDRAW DETAILS". It contains a "BACK" button at the top left. The main area has three labels: "ACCOUNT HOLDER :", "ACCOUNT NO. :", and "CUSTOMER NAME :", each followed by a text field containing "Pranav Wagh", "12345", and "pranav1411" respectively. Below these is a label "ENTER WITHDRAW AMOUNT :" followed by a text field containing "500". At the bottom right is a "WITHDRAW" button. A "Message" dialog box is overlaid in the center, displaying an information icon, the text "Withdraw Successful", and an "OK" button. The background of the window is black.

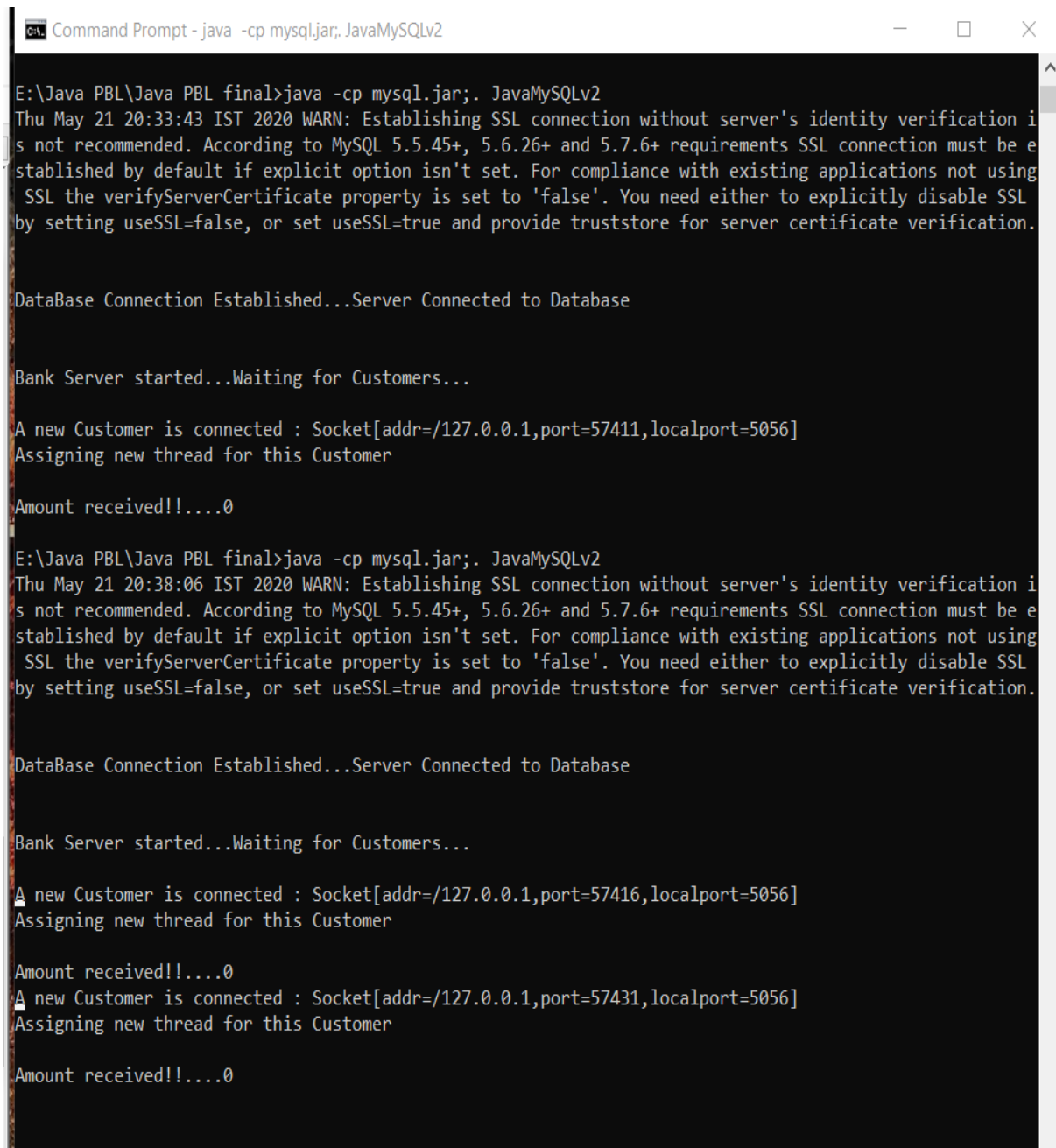
```
Font(new Font("Tahoma", Font.PLAIN, 13));
```

## ✓ Check balance :

The screenshot shows a Java Swing window titled "WELCOME!!". It features a "SIGN OUT" button at the top right. The main area has three labels: "ACCOUNT HOLDER :", "ACCOUNT NO. :", and "CUSTOMER NAME :", each followed by a text field containing "Pranav Wagh", "12345", and "pranav1411" respectively. At the bottom are three buttons: "DEPOSIT", "WITHDRAW", and "CHECK BALANCE". A "Message" dialog box is overlaid in the center, displaying an information icon, the text "Your current balance is:100000", and an "OK" button. The background of the window is white.

```
Font.PLAIN, 13));  
contentPane.add(label1,  
text1.setText("500000");
```

## ✓ CMD Prompt Execution :



```
Command Prompt - java -cp mysql.jar;. JavaMySQLv2

E:\Java PBL\Java PBL final>java -cp mysql.jar;. JavaMySQLv2
Thu May 21 20:33:43 IST 2020 WARN: Establishing SSL connection without server's identity verification is
not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be e
stablished by default if explicit option isn't set. For compliance with existing applications not using
SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL
by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.

DataBase Connection Established...Server Connected to Database

Bank Server started...Waiting for Customers...

A new Customer is connected : Socket[addr=/127.0.0.1,port=57411,localport=5056]
Assigning new thread for this Customer

Amount received!!....0

E:\Java PBL\Java PBL final>java -cp mysql.jar;. JavaMySQLv2
Thu May 21 20:38:06 IST 2020 WARN: Establishing SSL connection without server's identity verification is
not recommended. According to MySQL 5.5.45+, 5.6.26+ and 5.7.6+ requirements SSL connection must be e
stablished by default if explicit option isn't set. For compliance with existing applications not using
SSL the verifyServerCertificate property is set to 'false'. You need either to explicitly disable SSL
by setting useSSL=false, or set useSSL=true and provide truststore for server certificate verification.

DataBase Connection Established...Server Connected to Database

Bank Server started...Waiting for Customers...

A new Customer is connected : Socket[addr=/127.0.0.1,port=57416,localport=5056]
Assigning new thread for this Customer

Amount received!!....0
A new Customer is connected : Socket[addr=/127.0.0.1,port=57431,localport=5056]
Assigning new thread for this Customer

Amount received!!....0
```

## Conclusion :

This Banking System project will serve as a useful approach to data base dialog box to deposit and withdraw the money for the person. It serves as a helpful approach for the users. It provides easy way of the deposit and withdraws the money.

Thus the project is the user friendly approach.