BANKING APPLICATION

S. E. Information Technology

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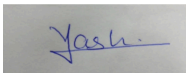
2021-2022

DECLARATION

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources.

We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in this submission.

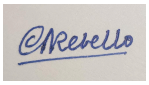
We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.



1. ----------
   (YASH PATEL- 07)

2. ----------
   (ROVIN QUADROS-09)

3. ----------
   (SHASHANK RAI-10)



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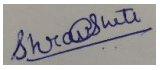
   (CHRISANNE REBELLO -12)



5. ----------
   (SHRAVANI SHETE-17)

Date: 16-12-2021

CERTIFICATE

This Java Mini-project Banking application by Yash Patel, Rovin Quadros, Shashank Rai, Chrisanne Rebello and Shravani Shete is complete in all respects and was successfully demonstrated on 16-12-2021.

Name : Shree Jaswal

Signature :----------

(Internal examiner)

Name : ----------

Signature :----------

(External examiner)

Date: 16-12-2021

Place:Mumbai

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Chapter 1

Introduction

This report provides information regarding the banking application used by people all over, for ease of using the banking services at the tip of your fingers by using mobile phones as a medium and also a one-stop solution to those business entities who use banking services on a day to day basis.

With the Introduction of banking apps people have now started using banking facilities much more than the traditional method of visiting the bank and getting the work done. Even people in remote areas have started opening bank accounts through banking applications.
The following are the contents of the report: This application mainly focuses on operations like deposit,
withdrawal, transfer money, etc.

The users can withdraw or deposit money rather than going to the bank. The main purpose of this application is to store the bank data of a user and provide an interface for retrieving customer-related details with 100% accuracy. It allows the users to pay, transfer or withdraw money from one account to another account in seconds and it also allows access 24/7 to one’s account.

Chapter 2

Literature Review

Project 1 Title - Complete Banking System Java Project
Publishing Date - February 7, 2016
In the first project that we reviewed, the banking system was made to be very secure. It was made accessible to users only with an appropriate username and password. It assisted users to access their own accounts and other information from the comfort of their homes. Not only that it also provided users with an admin module & a loan module that offered various types of loans.
Language used:- Java
Database used:- Oracle

Project 2 Title - Bank Application System Java Project
Publishing Date - January 30, 2016
In the second project that we reviewed, the banking system strived to be better and more beneficial than the existing banking system. Here, the users could create their new accounts, carry out cash deposits and withdrawals and even delete their accounts. It was a user-friendly system that also kept logs of all the actions taking place for better transparency and security of the system.
Language used:- Java

Project 3 Title - Java & MySQL Project on Bank Management System
Publishing Date - January 7, 2020
In the third project that we reviewed, the project aimed at business process automation and the computerization of all the various workings of the bank system. It also includes account management and a customer management module which assists in managing all the data of the user accounts. It is a reliable system that maintains computerized records
Language used:- Java
Database used:- MySQL

Chapter 3

Problem Statement

The banking industry is witnessing a revolution in products, processes, markets, and regulations, and it's a revolution that is not about to stop or even slow down. Since the only option is to adapt and evolve, it is essential that the system has the flexibility to quickly adjust to the needs of today's financial market. It's a tough challenge. Because today's fast-moving marketplace is also extremely competitive. Moreover, the need to retain existing customers and attract new ones often conflicts with the need to reduce costs and improve efficiency. Nowadays, managing a bank is a tedious job up to a certain limit. So software that reduces the work is essential. Also, today's world is a genuine computer world and is getting faster and faster day by day. Thus, considering the above necessities, the software for bank management has become necessary which would be useful in managing the bank more efficiently. But whatever the challenges facing retail banking operation, ACE Bank can help to meet and overcome them. Therefore an automated database system in an application is being developed to address the problem. Although the basic type of services offered by a bank depends upon the type of bank and the country, services provided usually include: Creating a new account first to get a unique account number and thus logging in to enable to access the system, Taking deposits from their customers also includes facilitating money transactions and viewing a balance in the account. Transfer to another account and facility of changing pins is also availed. The user can edit detailed information and can change passwords.

Chapter 4

4.1 System Design

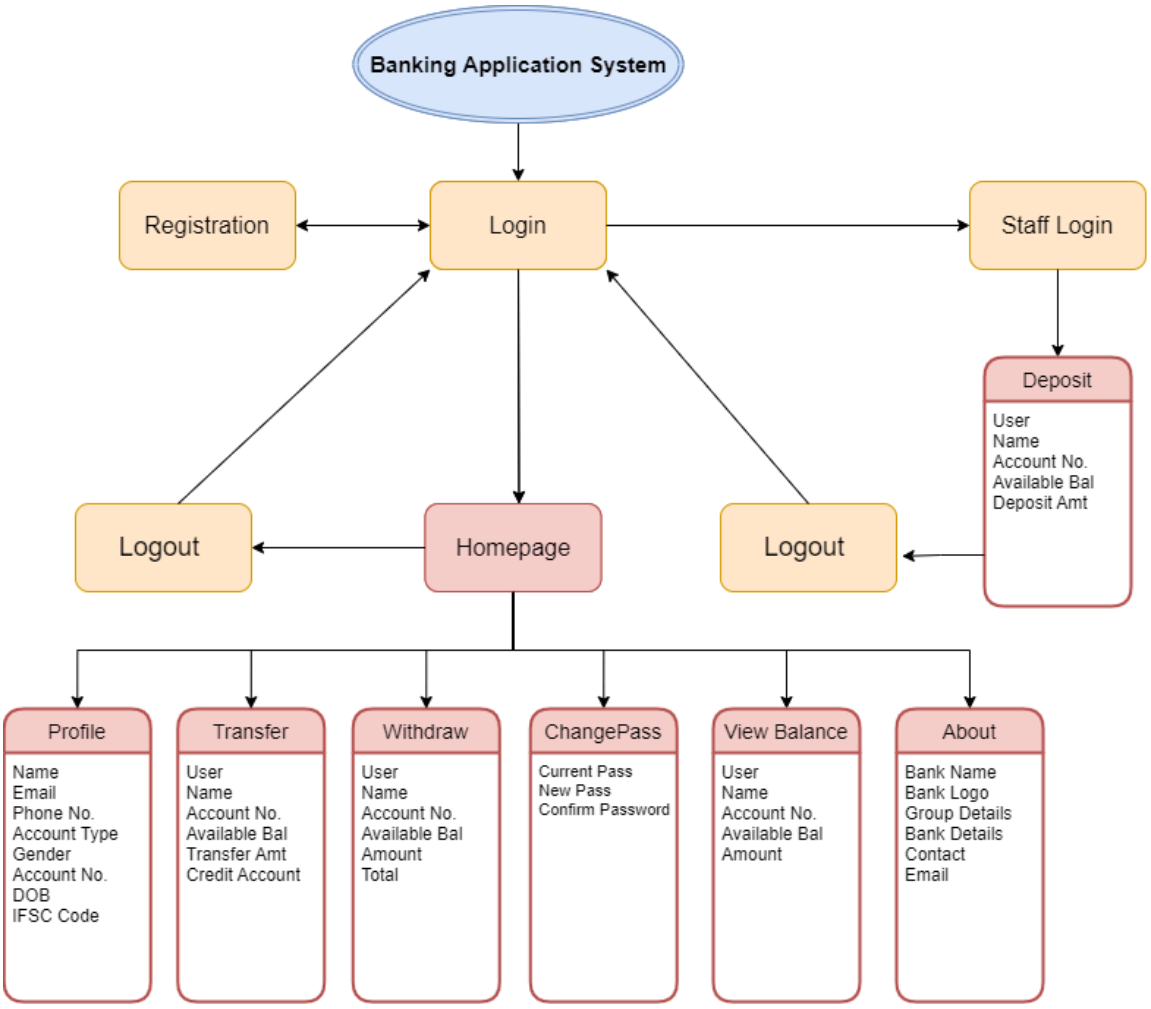


Fig 4.1

4.1.1 Login: The banking application starts when a user logs in with his user Id & password.

4.1.2 Staff Login: If the user is a member of the staff then he/she will need to click on ‘staff login’. The duty of the staff members is to handle the deposit page.

4.1.3 Deposit: The staff deposits into the users account by using the deposit page. The staff enters the users basic details like name, account number verifies the details and deposits the desired amount into the user’s account.

4.1.4 Registration form: If he or she is a new user then he or she will have to go through the registration process. The registration process starts with the user filling in his details i.e, Name, Address, gender, contact number, etc.

The Homepage of the banking app comprises a number of facilities for the users namely the deposit, withdrawal, transfer, about, change pin & view balance.

4.1.5 Profile: The profile page will display the users account details. A user's profile consists of important details i.e name, email, password, phone no, account type, gender and account no and IFSC code. He/she can view their profile by simply clicking on the profile tab and the user is given access to change their mobile number and Email Id. The user can edit their phone number and email ID.

4.1.6 Transfer: The movement of monetary funds from one bank account to another is called a transfer. With this function, the user can transfer a certain amount of money from one account to another. The account number and available balance gets displayed by clicking on the search icon. The user then successfully transfers the required amount of money.

4.1.7 Withdraw: A withdrawal involves the removal of money from a certain bank account. With the withdrawal function, the user can withdraw a desired amount of money from his/her bank account. The user enters his account number and his current account balance gets displayed. By clicking on the total button the withdrawn amount gets

displayed and the user gets a confirmed message of a successful withdrawal.

4.1.8 Change Password: The user can change his old pass by entering a new password and re-entering it for confirmation which then replaces the old password. The new password is then considered as the current password of the user's account.

4.1.9 View Balance: Through this page the user can view their available balance, IFSC Code & details like account no. will be displayed.

4.1.10 About: The about page includes details such as contact details, bank name, logo and group details. If the user wishes to know more about the banking application then he/she can click on the 'about' page.

4.2 System requirements:

4.2.1 Hardware requirements: The hardware requirements that will be needed to run the bank application are A windows 10 operating system, 4GB Ram, i3 processor and above, 512GB SSD hard disk.

4.2.2 Software requirements:
The software requirements are:

- Xampp v3.3.0
- My SQL Server: Version 8.0.26
- Netbeans 8.2 & above
- Windows 8 & above
- 256 GB SSD/HDD and above
- JDK Version 8 or above

The hardware requirements are:

- 4GB RAM & above
- Processor Intel i3 and above

Chapter 5

Results

5.1 Login:

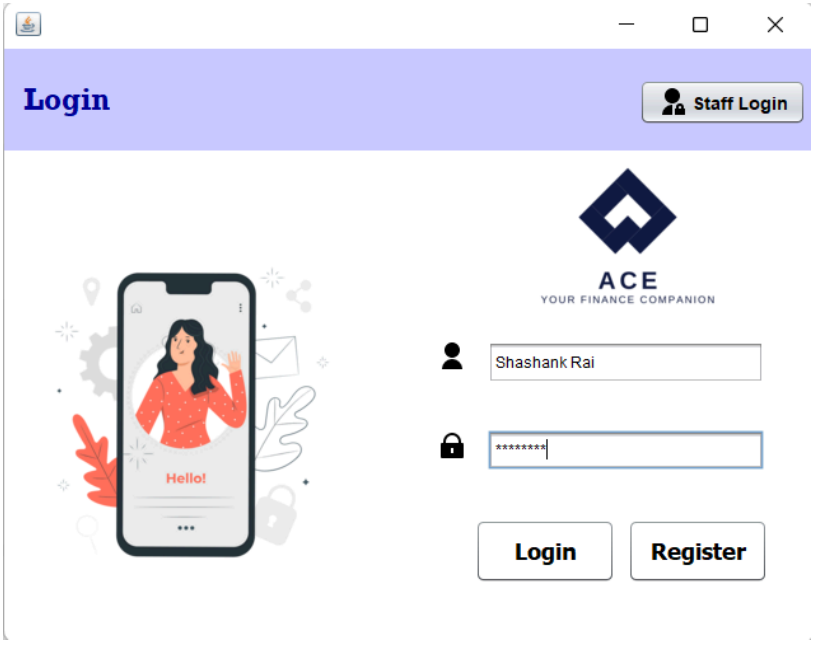


Fig.5.1

5.2 Register:

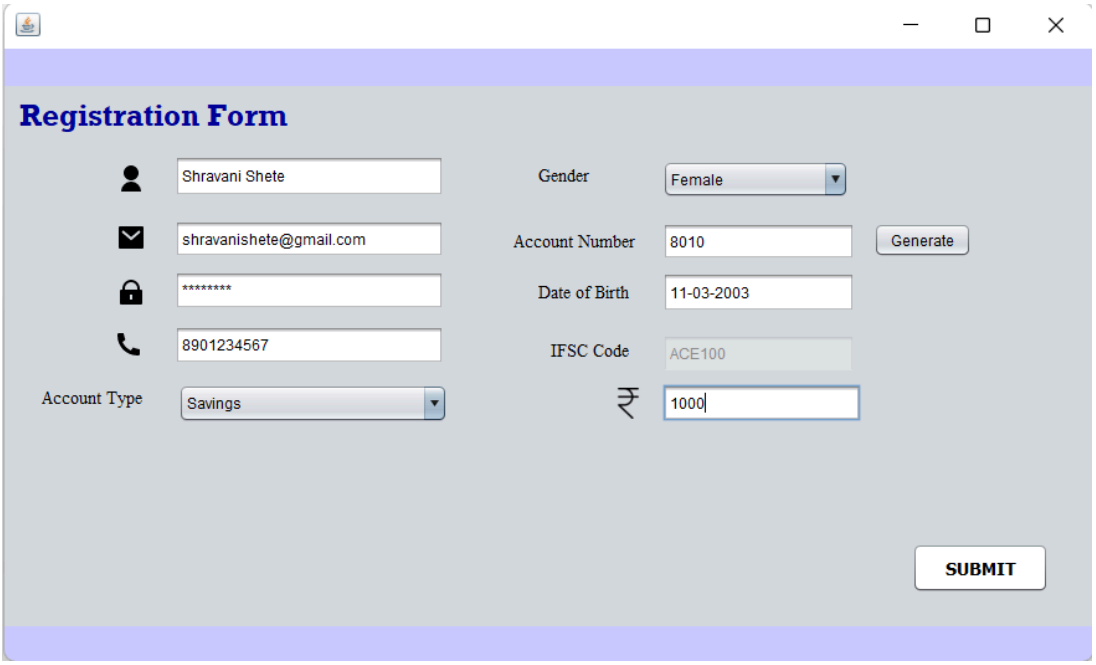


Fig.5.2

5.3 Homepage:

1. **Profile**

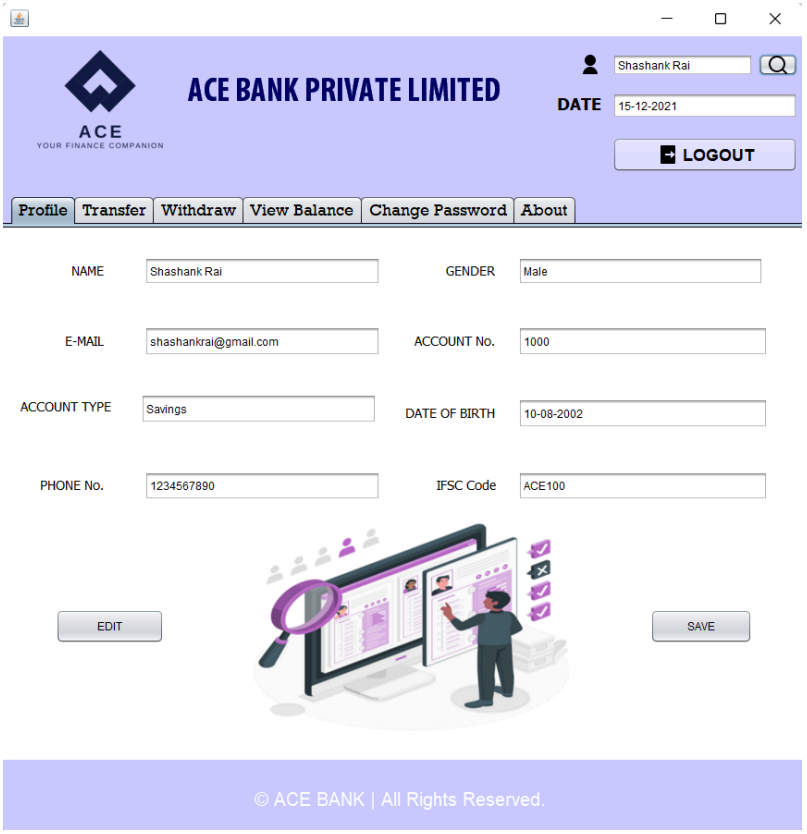


Fig.5.3

2. Transfer

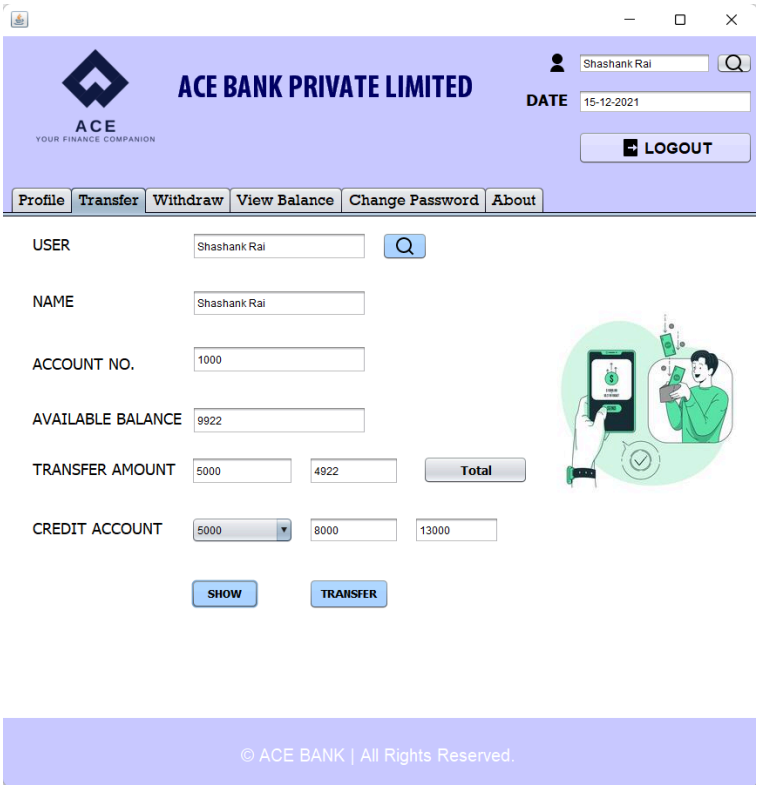


Fig.5.4

3. Withdraw

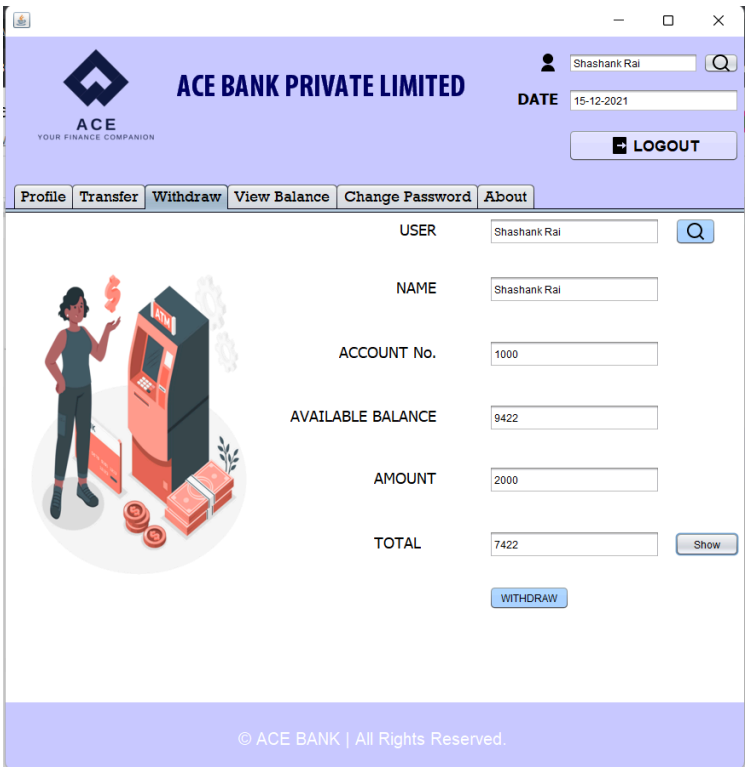


Fig.5.5

4. View Balance

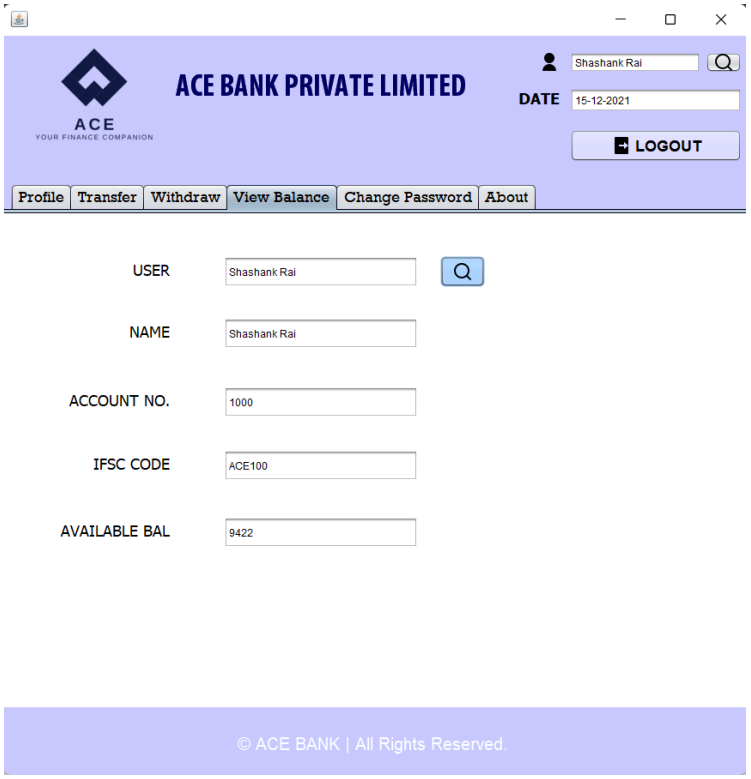


Fig. 5.6

5. Change Password

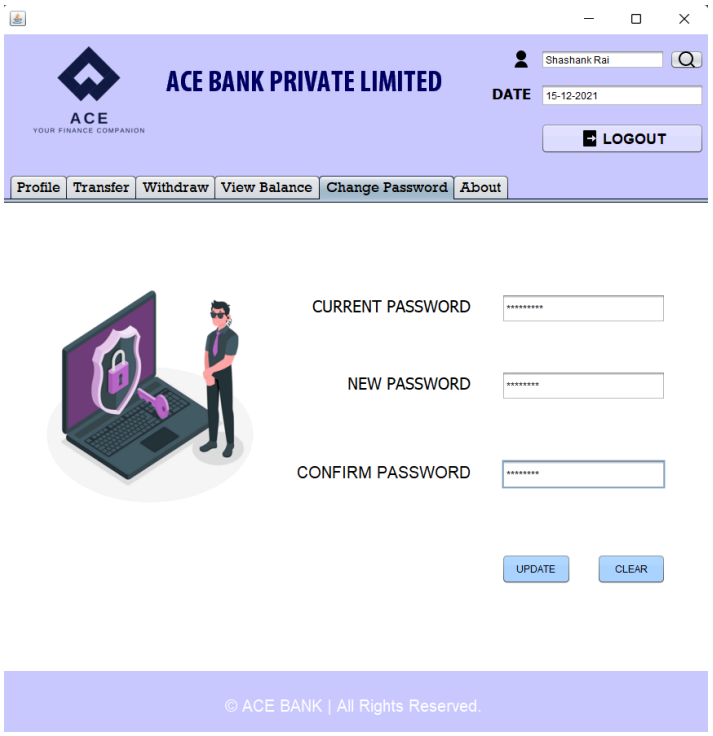


Fig 5.7

6. About

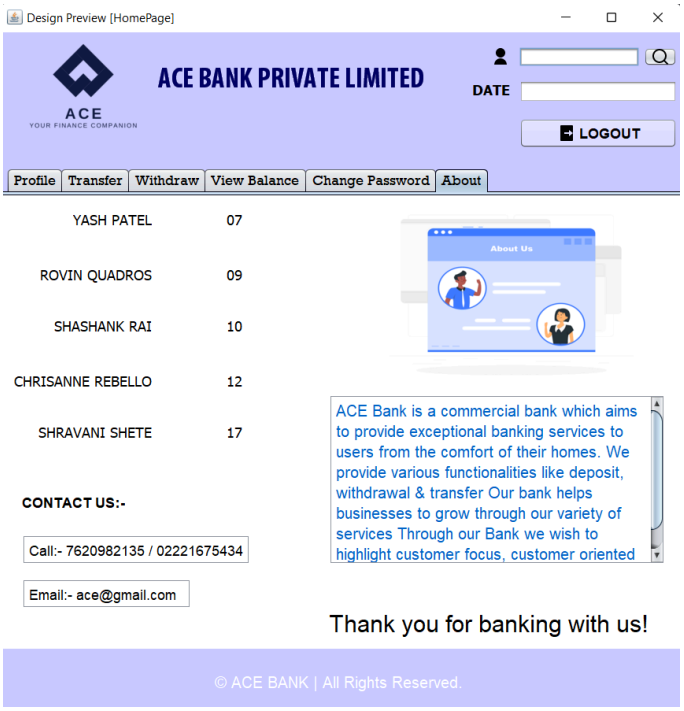


Fig.5.8

5.4 Staff Login

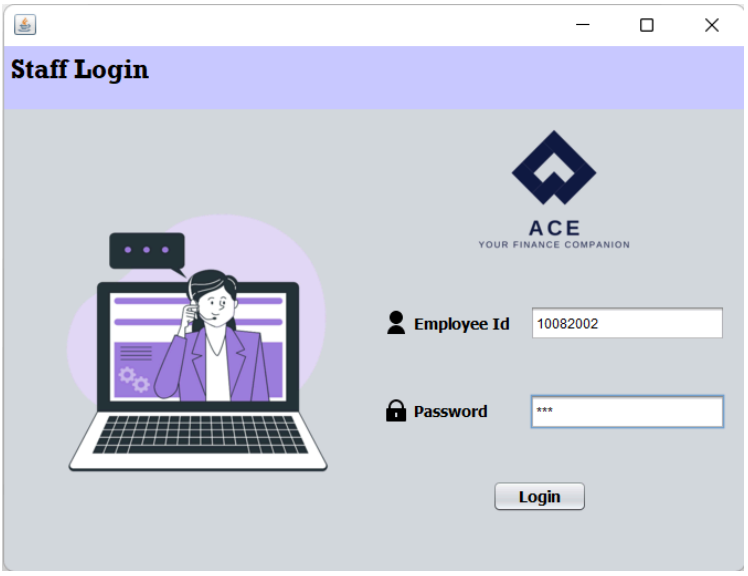


Fig.5.9

5.5 System Admin

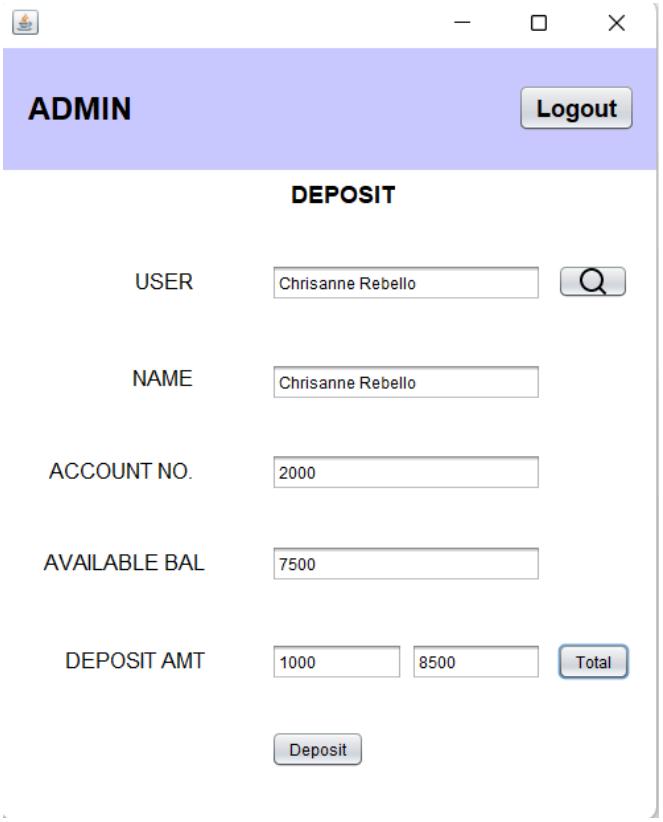
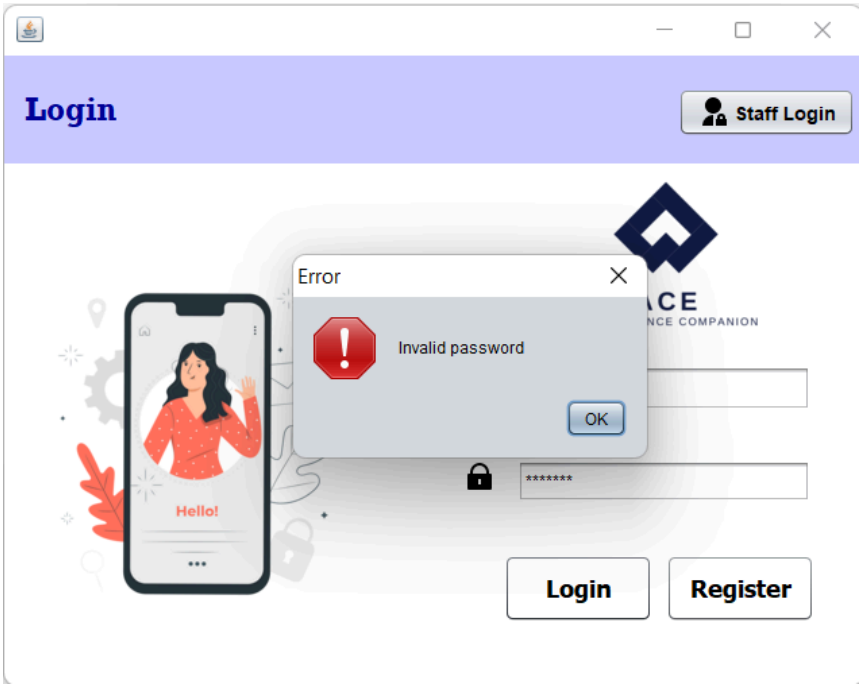


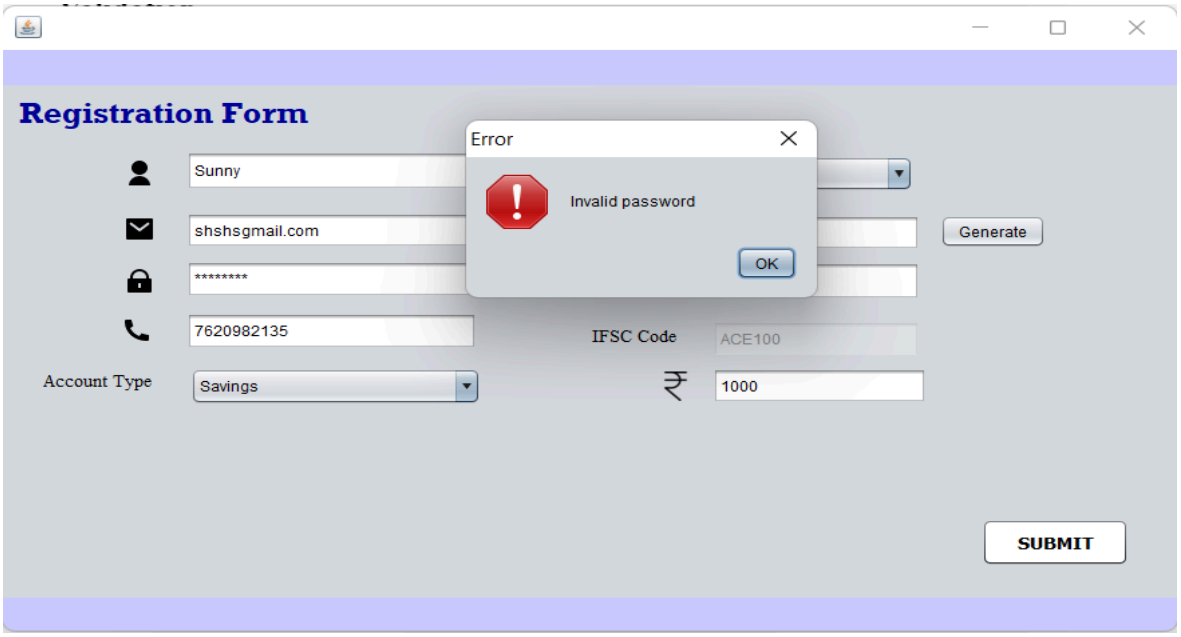
Fig 5.10

5.6 Validations:

5.6.1 Login Password:



5.6.2 Registration Password:



Chapter 6

Conclusion & Future Scope

6.1 Conclusion

In this project, we showed the working of a banking system and covered most of the basic functionalities. The main aim of this application is to develop software for banking. The system design is implemented with Java & MySQL. It is designed as an interactive management system. It deals with validation confirmation, data entry, and updating. It is made in accordance with specifications to satisfy all the needs and requirements of the users. Therefore the features of this project will greatly improve the efficiency of the system and the users can benefit from these features from the comfort of their homes.

6.2 Future Scope

This project was developed to fulfill user requirements. However, there are lots of scopes to improve the performance of the Banking Application in the area of the user interface, database performance, and query processing time.

The future enhancements that are possible in this project are as follows:

We can implement a system where a bank statement is generated.

A loan module can be added where users can benefit from various types of loans like education loans, home loans, business loans, personal loans, etc.

An admin module that has total control over all the actions of the application can be added to enhance the application.

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