

BANK ACCOUNT MANAGEMENT SYSTEM

SUBMITTED BY

SHREYA SINGH (2018BTECHCSE119)
SAKSHAM BAIRATHI (2018BTECHCSE114)
AISHWARYADITYA JHA (2018BTECHCSE123)
SANKET SHARMA (2018BTECHCSE116)



**DEPARTMENT OF COMPUTER SCIENCE & ENGG.
INSTITUTE OF ENGINEERING & TECHNOLOGY
JK LAKSHMIPAT UNIVERSITY, JAIPUR**

April, 2020

ABSTRACT

The Bank Account Management System that we implemented as a project consists of a website and an application for managing personal details of a user's account. This project covers basic functionality of net banking system for solving financial applications of a customer in banking environment in order to nurture the needs of an end banking user by providing various ways to perform banking tasks like withdrawal, money deposit, transfer etc.

The Bank Account Management System undertaken as a project is based on relevant technologies. The main aim of this project is to develop a user friendly approach for Bank Account Management System which was achieved by creating a website and an application of the Bank Account Management System that can be used to access all facilities from anywhere hence, it reduces time consumption and is more efficient. This project has been developed to carry out the processes easily and quickly, which is not possible with the manuals systems, which are overcome by this software. This project is developed using Java, HTML language and MYSQL and JSP used for database connection. Creating and managing requirements is a challenge of IT, systems and product development projects or indeed for any activity where you have to manage a contractual relationship. Organization need to effectively define and manage requirements to ensure they are meeting needs of the customer, while proving compliance and staying on the schedule and within budget. The impact of a poorly expressed requirement can bring a business out of compliance or even cause injury or death. Requirements definition and management is an activity that can deliver a high, fast return on investment. The project analyzes the system requirements and then comes up with the requirements specifications. It studies other related systems and then come up with system specifications. The system is then designed in accordance with specifications to satisfy the requirements. The system design is then implemented with MYSQL, Java, JavaFX, HTML, JavaScript and CSS. The system is designed as an interactive and content management system. The content management system deals with data entry, validation confirm and updating whiles the interactive system deals with system interaction with the administration and users. Thus, above features of this project will save transaction time and therefore increase the efficiency of the system.

LIST OF TABLES

TABLE NAME	PAGE NO.
i. Table 1: Account Details of website	8
ii. Table 2: User Data of website	8
iii. Table 3: Withdraw Money of website	9
iv. Table 4: Deposit Money of website	9
v. Table 5: Intra-bank Transfer Money of website	9
vi. Table 6: Deposit money of java application	10
vii. Table 7: Intra-Bank Transfer money of java application	10
viii. Table 8: User Data of java application	10
ix. Table 9: Withdraw Money of java application	11

LIST OF FIGURES

FIGURES NAME	PAGE NO.
i. Figure 1: ER Diagram of Bank-Account Management System	6
ii. Figure 2: Schema Diagram of Bank Account Management System	7
iii. Figure 3: Login Page of the Website	140
iv. Figure 4: Create Account Page of the Website	140
v. Figure 5: Forgot Password Page of the Website	141
vi. Figure 6: User Dashboard window of the Website	141-142
vii. Figure 7: Withdraw Money window of the Website	142
viii. Figure 8: Deposit Money window of the Website	143
ix. Figure 9: Intra-bank Transfer Money window of the Website	143
x. Figure 10: Withdraw history window of the Website	144
xi. Figure 11: Deposition History window of the Website	144
xii. Figure 12: Intra-bank Transfer history window of the Website	145
xiii. Figure 13: Login page of Java Application	145
xiv. Figure 14: Create Account window of the Java Application	146
xv. Figure 15: Forgot Password window of the Java Application	147
xvi. Figure 16: User Dashboard window of the Java Application	147
xvii. Figure 17: Main Screen window of the Java Application	148
xviii. Figure 18: Account Information window of the Java Application	148
xix. Figure 19: Withdraw Money window of the Java Application	149
xx. Figure 20: Deposit Money window of the Java Application	149
xxi. Figure 21: Intra-bank Transfer Money window of the Java Application	150
xxii. Figure 22: Transaction history window of the Java Application	150
xxiii. Figure 23: Change PIN Number window of the Java Application	151

TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO.
1.	INTRODUCTION	1
	1.1 Client Definition	1
	1.2 Languages used	1
2.	ANALYSIS AND REQUIREMENT SPECIFICATION	2-5
	2.1 Purpose	2
	2.2 Scope	2
	2.2.1 Website	2
	2.2.2 Application	2
	2.3 Functional Requirements	3
	2.4 Non-Functional Requirements	3-5
	2.5 Assumptions	5
3.	DESIGN OF THE PRODUCT	6-11
	3.1 ER Diagram	6
	3.2 Schema Diagram	7
	3.3 Database Dictionary	8-11
4.	IMPLEMENTATION	12-134
	4.1 Website (Front end code)	12-65
	4.1.1 Login Page of the Website	12-17
	4.1.2 Create Account Page of the Website	17-19
	4.1.3 Forgot Password window of the Website	19-21
	4.1.4 User Dashboard window of the Website	21-29
	4.1.5 Withdraw Money window of the Website	29-34
	4.1.6 Deposit Money window of the Website	34-39
	4.1.7 Intra-bank Transfer Money window of the Website	39-43
	4.1.8 Withdraw history window of the Website	43-50
	4.1.9 Deposit history window of the Website	50-55

4.1.10	Intra-bank Transfer history window of the Website	56-61
4.2	Website (Back end code)	65-74
4.2.1	Logging in	65-66
4.2.2	Creating Account and inserting data into table	66-68
4.2.3	Forgot Password	68-69
4.2.4	Depositing Money and inserting data into table	69-70
4.2.5	Transferring Money(Intra-bank) and inserting data into table	70-72
4.2.6	Withdrawing Money and inserting data in table	72-74
4.3	Java Application (Back and + Front end)	74-139
4.3.1	Login page of Java Application	74-80
4.3.2	Create Account window of the Java Application	80-88
4.3.3	Forgot Password window of the Java Application	89-92
4.3.4	User Dashboard window of the Java Application	92-100
4.3.5	Main Screen window of the Java Application	100-103
4.3.6	Account Information window of the Java Application	103-108
4.3.7	Withdraw Money window of the Java Application	108-113
4.3.8	Deposit Money window of the Java Application	113-118
4.3.9	Intra-bank Transfer Money window of Java Application	119-125
4.3.10	Transaction history window of the Java Application	125-134
4.3.11	Change PIN Number window of the Java Application	134-137

5. **SNAPSHOTS** 135-146

5.1	Login Page of the Website	140
5.2	Create Account Page of the Website	140
5.3	User Dashboard window of the Website	141
5.4	User Dashboard window of the Website	141-142
5.5	Withdraw Money window of the Website	142
5.6	Deposit Money window of the Website	143
5.7	Intra-bank Transfer Money window of the Website	143
5.8	Withdraw history window of the Website	144
5.9	Deposition History window of the Website	144
5.10	Intra-bank Transfer history window of the Website	145

5.11	Login page of Java Application	145
5.12	Create Account window of the Java Application	146
5.13	Forgot Password window of the Java Application	147
5.14	User Dashboard window of the Java Application	147
5.15	Main Screen window of the Java Application	148
5.16	Account Information window of the Java Application	148
5.17	Withdraw Money window of the Java Application	149
5.18	Deposit Money window of the Java Application	149
5.19	Intra-bank Transfer Money window of the Java Application	150
5.20	Transaction history window of the Java Application	150
5.21	Change PIN Number window of the Java Application	151
6.	CONCLUSION	152
	REFERENCES	153

CHAPTER1: INTRODUCTION

Bank Account Management System enables the customers to perform the basic banking transactions by sitting at their office or at homes through PC or laptop. The system provides the access to the customer to create an account, deposit/withdraw/transfer the cash from his account, also to view reports of all accounts present. The customers can access the banks website for viewing their Account details and perform the transactions on account as per their requirements. With Internet Banking, the brick and mortar structure of the traditional banking gets converted into a click and portal model, thereby giving a concept of virtual banking a real shape. Thus, today's banking is no longer confined to branches. E-banking facilitates banking transactions by customers round the clock globally.

Customers can just conduct their transactions online be it transferring funds to another bank account or checking the transaction history, updating your account details or checking account balance, you can do them all and much more with the help of this. With Internet Banking, the brick and mortar structure of the traditional banking gets converted into a click and portal model, thereby giving a concept of virtual banking a real shape. Thus today's banking is no longer confined to branches. E-banking facilitates banking transactions by customers round the clock globally. The project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain. Here, we provide automation for banking system through Internet. Online Banking System project captures activities performed by different roles in real life banking which provides enhanced techniques for maintaining the required information up-to-date, which results in efficiency. The project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain.

The system design is then implemented with

- **JavaScript:** It is a client-side programming language which helps web developer to do Web Application Development and make dynamic and interactive web pages by implementing custom client-side scripts. Developers can also use cross-platform runtime engines like Node.js to write server-side code in JavaScript.
- **HTML:** It is a markup language, heavily utilized for creating web pages and web applications. HTML, when combined with JavaScript and CSS, has become a milestone for web development. One of the useful aspects of HTML is, it can embed programs written in a scripting language like JavaScript, which is responsible for affecting the behavior and content of web pages.
- **CSS:** It is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language.
- **MySQL:** MySQL is an open source relational database management system. It runs as a server and allows multiple users to manage and create numerous databases. The data in a MySQL database are stored in tables. A table is a collection of related data, and it consists of columns and rows. Databases are useful for storing information categorically.
- **JavaFX:** It is a software platform to design, create, test and deploy different platform GUI applications, Rich Internet Applications, and Desktop Applications. In Java, in order to replace Swing as the standard GUI library, it is developed.
- **Java:** It is a widely used programming language expressly designed for use in the distributed environment of the internet. Java has strong support for web development and is frequently used at the server side. Java web applications are typically not running directly on the server. Java web applications are running inside a web container on the server.

We have used canvas library to design graph in user dashboard in our website. The website and java application have been developed using the most powerful and secure backend MYSQL database, which is the most widely accepted web oriented as well as application oriented database.

CHAPTER2: ANALYSIS AND REQUIREMENT SPECIFICATION

PURPOSE

The purpose of this project is to provide basic banking facilities in a user-friendly GUI. The project provides a dashboard to the exiting users from where they can transfer, withdraw, and deposit money and see their transaction history. New users will be provided an easy step by step procedure to create an account where they will be given a unique account number an asked some basic questions.

SCOPE

Website

- 1) Make the website secure by adding some type of encryption on the passwords of users.
- 2) Implement OTP verification at the time of login, money withdrawal and transfer.
- 3) Add functionalities like
 - 1) Loan System
 - 2) Giving intersent money to users.
 - 3) Allow user to have functionalities like FDs, DD etc.
- 4) Implementation of interbank money Transfer.
- 5) Make the GUI more user-friendly.
- 6) Impliment the application on mobile platform.
- 7) We can implement the back-end on php to make it more secure and use blockchain.
- 8) Make a functionality where the user can check if the account number belongs to the person to whom the money is to be transferred.

Application

- 1) Make the app secure by adding some type of encryption on the passwords of users.
- 2) Implement OTP verification at the time of login, money withdrawal and transfer.
- 3) Add functionalities like
 - a. Loan System
 - b. Giving intersent money to users.
 - c. Allow user to have functionalities like FDs, DD etc.
- 4) Implementation of interbank money Transfer.
- 5) Make the GUI more user-friendly.
- 6) Implement the application on mobile platform.

FUNCTIONAL REQUIREMENT

- **User:** The valid user on internet banking website/application has a set of requirements he/she does on internet banking.
- **Login:** A customer to be able to use this system, he/she has to enter Account number and password which he/she has created before and been saved in the database in the Login page. This function might be a customer or an Admin also. The input in this function must be valid Account number and valid password and the output if the user is valid user then he/she will get into a page which can makes his/her transaction, but if the user made wrong in username or password then he/she will be invalid user and will have to answer “Security Question and Answers” and to login again.
- **View Account:** View Account allows to a customer to view today’s up-to the minute balance information on deposit (saving/current). The customer can also view transaction history
- **Transfer Funds:** The customer must be logged into Banking System to be able to make his/her transaction for transfer funds from one account to another account in that same bank. Transfer Funds allows customer to transfer funds between authorized accounts. Requested transfer take place immediately. The customer can select Transaction History function for display the transaction he/she done.
- **Deposit money:** The customer must be logged into Banking System to be able to make his/her money to be deposited in its own account. After the amount is deposited in the bank, the account balance will be updated along with the transaction history.
- **Withdraw money:** The customer must be logged into Banking System to be able to withdraw money from in its own account. After the amount is deposited in the bank, the account balance will be updated along with the transaction history.
- **Logout:** The customer must be logged into Banking System. This function is used when a logged in user finishes his/her job and wants to be logged out. The system will state the user has been logged out successfully.

NON-FUNCTIONAL REQUIREMENTS

Non-functional requirements are requirements that are not directly concerned with the specific functions delivered by the system.

- **Increase Customer Satisfaction:** Internet banking system allows customers to access banking services 24 hours a day, 365 days a year with minimum downtime period for backup and maintenance.
- **Reduce Overall Costs :**It will help to reduce a bank’s costs in two fundamental ways: it minimize the cost of processing transactions and reduces the number of branches required to service an equivalent number of customer.
- **Account ID and Password :** Protection User Account ID and Password (PIN) protection occurs at the first level within the Internet Banking System. To access Internet Banking, users are required to enter an Account ID and password. Without these, access to the Internet Banking System is denied. If the Password Change option is imposed, user has to answer all the security questions before logging-onto Internet Banking.
- **Sign-off Button:** When an end-user is finished with Internet Banking, they should click the Sign-off button before going anywhere else on the Web. This ends the Internet Banking session.

Website**•Hardware specification:**

Processor : i7 Intel Core Processor

Clock speed : 2.5GHz

Monitor : 1024 * 768 Resolution Color

RAM : 8 GB

Input Output Console for interaction

•Software specification

XAMPP v3.2.2

phpMyAdmin Database server 127.0.0.1

phpMyAdmin version 4.8.3

NetBeans IDE 8.0.2

JAVA version 8 (build 1.8.0_241-b07)

JDK 1.8

mysql-connector-java-5.1.23-bin.jar

Operating system : Windows10

Application**•Hardware specification:**

Processor : i5 Core Processor

Clock speed : 2.5GHz

Monitor : 1024 * 768 Resolution Color

Keyboard : QWERTY keyboard

RAM : 1 GB

Input Output Console for interaction

•Software specification

XAMPP Server

NetBeans IDE 8.2

JAVA version 8 (build 1.8.0_241-b07)

JDK 1.8

mysql-connector-java-5.1.23-bin.jar

fontawesomefx-8.9.jar

jfoenix-8.0.8.jar

Operating system : Windows10

ASSUMPTIONS

- 1) All customers are new to the bank. They need to register first and create an account and then they can do the transaction comprising of deposit, withdraw, money transfer and view transaction history Etc
- 2) Customer should have the basic requirements like name, id card, mobile no. etc.
- 3) All the transfer are intra bank transfer.
- 4) The account should be present in the database before money transfer.

NOTE-

Currently, the website and the application are deployed on different databases (As they are created on different computer systems). In future, we can deploy both of them on a common database to provide simultaneous functioning and avoid data redundancy or conflicts and provide a sturdy and robust mechanism to our project.

CHAPTER3: DESIGN OF THE PROJECT

ER DIAGRAM

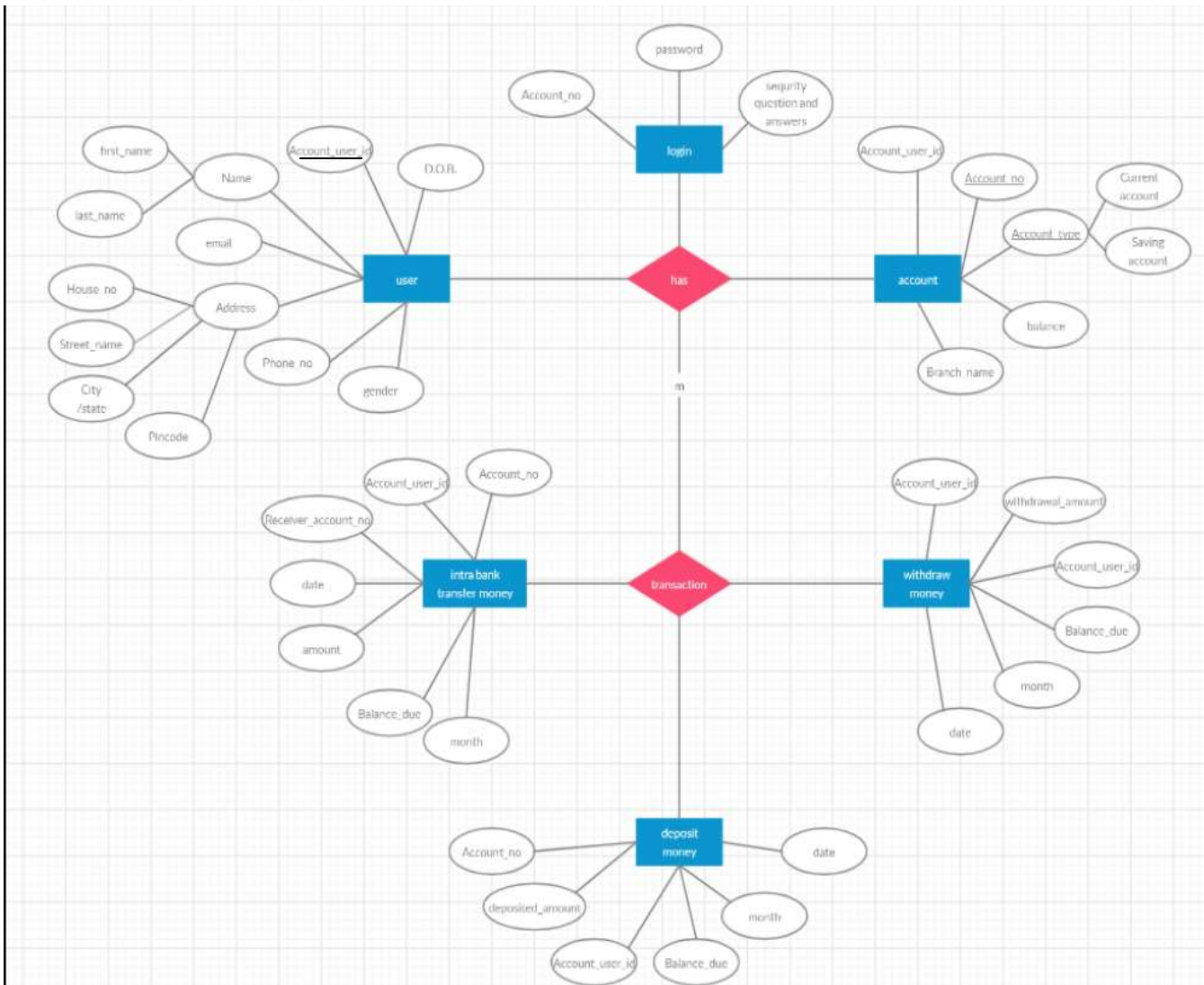
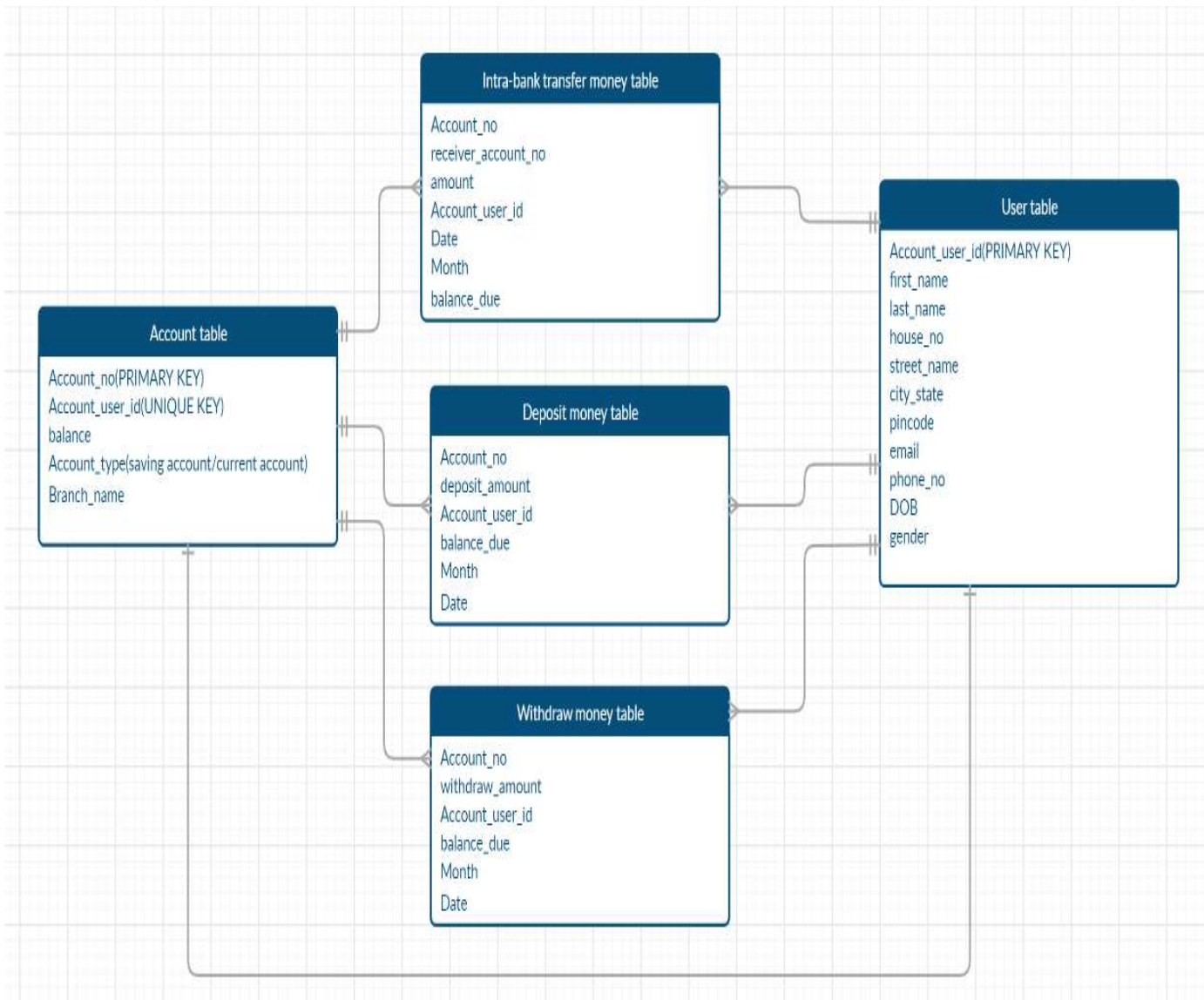


Figure 5: ER Diagram of Bank-Account Management System

Entities And Their Attributes

- **User Entity:** Name(First Name/ Last Name) , Account_User_Id, Gender, Email, Phone No, Address(House_No, Street_Name, City/State, Pincode)
- **Login Entity:** Account_No, Password(PIN No.), Security Question And Answers
- **Account Entity:** Account_No, Account_User_Id, Account Type(Saving/Current), Branch Name, Balance
- **Deposited Money Entity:**Account_No, Deposited_Amount, Account_User_Id,Balance_Due.Date, Month
- **Withdraw Money Entity:** Account_No, Withdrawal_Amount, Account_User_Id,Balance_Due.Date, Month
- **Intra-Bank Transfer Money Entity:**Account_No, Amount, Receiver_Account_No Account_User_Id,Balance_Due.Date, Month

SCHEMA DIAGRAM**Figure 6: Schema Diagram of Bank Account Management System**

DATABASE DICTIONARY**Website****Table 1: Account Details**

Variable	Type	Size
Account_User_Id	Varchar	12
Balance	Int	10
Account_Type	Varchar	10
Account_No	Varchar	12
Pin_No	Varchar	4
Branch_Name	Varchar	15
Security_Questions	Varchar	100
Answers	Varchar	100

Table 2: User Data

Variable	Type	Size
Account_User_Id	Varchar	100
First_Name	Varchar	100
Last_Name	Varchar	100
House_No	Varchar	100
Street_Name	Varchar	100
City_State	Varchar	100
Pincode	Varchar	100
Email	Varchar	100
Phoneno	Varchar	100
Dob	Varchar	100
Gender	Varchar	100
Name	Varchar	50
Account_User_Id	Varchar	100
First_Name	Varchar	100
Last_Name	Varchar	100
House_No	Varchar	100
Street_Name	Varchar	100
City_State	Varchar	100
Pincode	Varchar	100
Email	Varchar	100
Phone_no	Varchar	100

Table 3: Withdraw Money

Variable	Type	Size
Account_No	Varchar	15
Withdraw_Amount	Int	9
Account_User_Id	Varchar	14
Balance_Due	Int	9
Month	Varchar	12
Date	Date	

Table 4: Deposit Money

Variable	Type	Size
Account_No	Varchar	15
Deposit_Amount	Int	9
Account_User_Id	Varchar	14
Balance_Due	Int	9
Month	Varchar	12
Date	Date	

Table 5: Intra-bank Transfer Money

Variable	Type	Size
Account_No	Varchar	15
Receiver_Account_No	Varchar	15
Amount	Int	8
Account_User_Id	Varchar	15
Month	Varchar	12
Date	Date	

Java application**Table 6 : Deposit money**

Variable	Type	Size	Null Default
AccountNo	Varchar	50	No
DepositAmount	Varchar	50	No
NewAmount	Varchar	50	No
Date	Varchar	50	No
Time	Varchar	50	No

Table 7: Intra-Bank Transfer money

Variable	Type	Size	Null Default
AccountNo	Varchar	50	No
Amount	Varchar	50	No
SendTo	Varchar	50	No
Date	Varchar	50	No
Time	Varchar	50	No

Table 8: User Data

Variable	Type	Size	Null Default
Name	Varchar	50	No
ICN	Varchar	50	No
MobileNo	Varchar	50	No
Gender	Varchar	50	No
MartialStatus	Varchar	50	No
Religion	Varchar	50	No
DOB	Varchar	50	No
City	Varchar	50	No
Address	Varchar	50	No
AccountNo	Varchar	50	No
PIN	Varchar	50	No
AccountType	Varchar	50	No
Balance	Varchar	50	No
SecurityQuestion	Varchar	50	No
Profile picture	BLOB	-	No
Answer	Varchar	50	No

Table 9:Withdraw Money

Variable	Type	Size	Null Default
AccountNo	Varchar	50	No
WithdrawAmount	Varchar	50	No
RemainingAmount	Varchar	50	No
Date	Varchar	50	No
Time	Varchar	50	No

CHAPTER4: IMPLEMENTATION

WEBSITE CODE

FRONT END

Login page

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Log in | Create Account</title>
    <script>
        function validate(){
            var accno = document.myform.accno.value;
            var accusid = document.myform.accusid.value;
            var illegalchar = /abcdefghijklmnopqrstuvwxyz/;
            if(accno==""){
                alert("Please enter the Account no");
                document.myform.accno.focus();
                return false;
            }
            else if(accno.length<12 || accno.length>12){
                alert("The Account no must consist of length 12");
                document.myform.accno.focus();
                return false;
            }
            var accusid = document.myform.accusid.value;
            if(accusid==""){
                alert("Account user id not entered");
                document.myform.accusid.focus();
                return false;
            }
            else if(accusid.length<12 || accusid.length>15){
                alert("The Account user of must be of length between 12 to 15");
                document.myform.accusid.focus();
                return false;
            }
            else if(illegalchar.test(accusid)){
                alert("Password cannot contain /wsz/");
                document.myform.accusid.focus();
                return false;
            }
        }
    </script>
    <style>
        @import url('https://fonts.googleapis.com/css2?family=Oswald:wght@700&display=swap');
        @import url('https://fonts.googleapis.com/css2?family=Roboto+Mono&display=swap');
```

```

    body{
    background-image: url(images/gridgap.jpg);

}
html,body{
    margin:0;
    padding:0;

}

.in-header{
    display:flex;
    padding-left:180px;
    padding-right:100px;
    padding-top:80px;

}
.phase{

    flex:auto;
}
.phase h1 {
    text-align: center;
}
.phase.coco {
    background-image: url(images/unnamed.jpg);
}
.phase.coco img{
    padding-left:210px;
    padding-top: 100px;
    margin-right:-130px;
    width:250px;

}
.phase.coco h1 {
    color:white;
}
.phase.coco p{
    color:white;
    text-align: center;

}
.login-container{
    display: flex;
    align-items: center;
    text-align:center;

}
form{
    width:360px;
    color:#333;

```

```

}
.fixing-it{
  display:grid;
  grid-template-columns: 7% 93%;
  margin:25px 0;
  padding:5px 0;
  border-bottom: 2px solid rgb(88, 88, 238);
}
form h2{

  font-size: 2.9rem;
  text-transform: uppercase;
  margin: 15px 0;
  font-family: 'Roboto Mono', monospace;
}
.i{
  display:flex;
  justify-content: center;
  align-items: center;

  justify-content: center;
  align-items:center;
}
.i i{
  color:#d9d9d9;

}
.fixing-it > div{
  position:relative;
  height:45px;
}
.fixing-it > div h5{
  position: absolute;
  left:10px;
  top:50%;
  transform: translateY(-90%);
  color:#999;
  font-size:18px;
  transition: 0.3s;
}
.input{
  position:absolute;
  width:100%;
  height:100%;
  top:0;
  left:0;
  border: none;
  background: none;
  outline: none;
}

```

```

.fixing-it.one{
  margin-top:0;

}
.fixing-it .i i{
  color:blue;
}

.fixing-it.two{
  margin-bottom: 4px;
}
.a a{
  display: block;
  text-align: right;
  text-decoration: none;
  font-size: 0.9rem;
  transition: 0.3s;
  color:gray;
}
.a a:hover{
  color:blue;
}
.btn{
  display:block;
  width:100%;
  height:45px;
  border-radius: 25px;
  margin:1rem 0;
  font-size: 1.2rem;
  outline:none;
  border:none;
  background-image: linear-gradient(to right, rgb(65, 65, 221),rgb(30, 30, 194),blue );
  background-size: 200%;
  cursor:pointer;
  transition: 0.5s;
  text-align: center;
  color:white;
  font-weight: bolder;

}
.btnn{
  display:block;
  width:100%;
  height:45px;
  border-radius: 25px;
  margin:1rem 0;
  font-size: 1.2rem;
  outline:none;
  border:none;
  background-image: linear-gradient(to right, rgb(65, 65, 221),rgb(30, 30, 194),blue );

```

```

    cursor:pointer;
    transition: 0.5s;
    text-align: center;
    color:white;
    font-weight: bolder;

}

.btn:hover{
    background-position: right;
}

.fixing-it.focus div h5{
    top:5px;
    font-size: 15px;
}
form{
    margin-left: 100px;
}
form img{
    width:15%;
}
input{
    color:black;
}
.phase{
    background-color: white;
}
.phase.cool form{
    margin-right:-200px;
}
</style>

</head>
<body>
    <div class = "header">
        <div class="in-header">
            <div class="phase coco">
                
                <h1>Allied Bank</h1>
                <br>
                <br>
                <br>
                <br>
                <br>
                <br>
                <p>All Rights Reserved</p>
            </div>
            <div class="phase cool">
                <br></br>
                <div class="login-container">

```

```

<form action="loginit.jsp" method="post" name="myform">
  
  <h2>Welcome</h2>
<div class="fixing-it one focus">
  <div class="i">
    <i class="fa fa-user"></i>
  </div>
  <div>

    <input type="text" name="accno" class="input" placeholder="Account no" >
  </div>
</div>
<div class="fixing-it two focus">
  <div class="i">
    <i class="fa fa-lock"></i>
  </div>
  <div>
    <input type="password" name="accusid" class="input" placeholder="Account user id">
  </div>
</div>
<div class="a">
  <a href="#" class="forgot">Forgot password?</a>
</div>
<br>
<br>
<br>
<input type="submit" name="act" value="Login" onclick="return validate()" class="btn" >
  <p>or</p>
<input type="submit" name="act" value="Create Account" class="btn">

<br></br>
</form>
</div>
</div>
</div>
</body>
</html>

```

Create account page

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Create Account</title>
<style>

```

```

html,body{
  margin:0;

```



```

padding:0;
}
body{
background-image: url(images/hut.jpg) ;
}

.in-header{
display:flex;
padding-left:180px;
padding-right:100px;
padding-top:80px;
}
.phase{

flex:auto;
}
.phase h1 {
text-align: center;
}
.phase.coco{
background-image: url(images/unnamed.jpg);
height:605px;
}
.phase.coco img{
padding-left:202px;
padding-top: 100px;
margin-right:-130px;
}
.phase.coco h1 {
color:white;
}
.phase.coco p{
color:white;
text-align: center;
}
iframe{
width:100%;
height:605px;
border: none;
margin-top:-37px;
background-color: white;
}
</style>

```

```

</head>
<body>
  <div class = "header">
    <div class="in-header">
      <div class="phase coco">
        
        <h1>Allied Bank</h1>
        <br>
        <br>
        <br>
        <br>
        <br>
        <p>All Rights Reserved</p>
      </div>
      <div class="phase cool">
        <br></br>
        <div class="login-container">
          <iframe src="trial.html"></iframe>
        </div>
      </div>
    </div>
  </div>
</body>
</html>

```

Forgot Password

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>Forgot Password</title>
    <style>
      select{
        width:475px;
      }
      input,select{
        font-size:15px;
        height:30px;
        border-radius: 5px;

      }
      h1 {
        color: whitesmoke;
      }
      form{
        border:1px solid black;
        width:560px;
        background-color: white;
      }
      center{

```

```

        padding-top: 130px;
    }
    body{
        background-image: url(images/unnamed.jpg);
    }
    input{
        padding-left: 10px;
    }
    .btn{
width:120px;
height:45px;
border-radius: 25px;
margin:1rem 0;
font-size: 1.2rem;
outline:none;
border:none;
background-image: linear-gradient(to right, rgb(65, 65, 221),rgb(30, 30, 194),blue );
background-size: 200%;
cursor:pointer;
transition: 0.5s;
text-align: center;
color:white;
font-weight: bolder;
background-position: right;
}
    </style>
</head>
<body>
<center>

    <h1>Forgot Password? Don't worry enter some details below to get password.</h1>
    <br>
    <br>
    <br>
    <form action="analysis.jsp" method="post">
        <br>
        <br>
        <br>
        <input type="text" size="60px" name="accountuserid" placeholder="Account user id"><br>
        <br><select name="security" >
            <option selected="selected">Security Question</option>
            <option>What is your nick name</option>
            <option>What is your favorite animal</option>
            <option>What is your favorite food</option>
        </select><br>
        <br><input type="text" name = "ans" size="59px" placeholder="Answer"><br>
        <br><input type="submit" class="btn" name = "action" value="Verify"><br>
    <br>
    <br>
    <br>
    </form>

```

```

        </center>
    </body>
</html>

```

User Dashboard

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*"%>
<%@ page import="com.google.gson.Gson"%>
<%@ page import="com.google.gson.JsonObject"%>
<%@ page import="java.util.ArrayList"%>
<%@ page import="java.util.List"%>
<%@ page import="java.util.Map"%>
<%@ page import="java.util.HashMap"%>
<%@ page import="java.util.Calendar"%>
<%@ page import="java.util.Date"%>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Dashboard</title>
    <%
        Gson gsonObj = new Gson();
        Gson gsonObj2 = new Gson();
        Map<Object,Object> map = null;
        List<Map<Object,Object>> list = new ArrayList<Map<Object,Object>>();
        List<Map<Object,Object>> lists = new ArrayList<Map<Object,Object>>();
        String dataPoints = null;
        String dataPoints2 = null;
        String accno = (String)session.getAttribute("accno");
        String accusid = (String)session.getAttribute("accusid");
        try{
            Class.forName("com.mysql.jdbc.Driver");
            String uname = "root";
            String pass="";

            String url = "jdbc:mysql://localhost:3306/bank";
            Connection conn = DriverManager.getConnection(url,uname,pass);
            Statement st = conn.createStatement();
            Statement stt = conn.createStatement();
            Statement sstt = conn.createStatement();
            Statement stat = conn.createStatement();
            ResultSet res = st.executeQuery("SELECT balance FROM account_table where
Account_user_id='"+accusid+"'");

            ResultSet rs = st.executeQuery("SELECT balance FROM account_table where
Account_user_id='"+accusid+"'");
            ResultSet rss = stt.executeQuery("SELECT first_name,last_name FROM users_table where
Account_user_id='"+accusid+"'");

```

```

        ResultSet rrss = sstt.executeQuery("SELECT Account_type,Account_no,Branch_name FROM
account_table where Account_user_id='"+accusid+"'");
        ResultSet rh =null;
        Statement = conn.createStatement();
        String xVal, yVal;
        Statement sdt = conn.createStatement();
        ResultSet = statement.executeQuery("select * from deposit_table where Account_no = "+accno+"
ORDER BY Date asc limit 7");
        ResultSet result = sdt.executeQuery("select * from withdraw_table where Account_no = "+accno+"
ORDER BY Date asc limit 7");
        Date d=new Date();
        Date today = new Date();
        Calendar cal = Calendar.getInstance();
        cal.setTime(today);
        String[] monthNames = {"January", "February", "March", "April", "May", "June", "July", "August",
"September", "October", "November", "December"};

```

```

int month = cal.get(Calendar.MONTH); // 5
String monthsnames = monthNames[month];

```

```

while(resultSet.next()){

        yVal = resultSet.getString("deposit_amount");
        map = new HashMap<Object,Object>(); map.put("label",resultSet.getString("Date"));
        map.put("y", Double.parseDouble(yVal)); list.add(map);
        dataPoints = gsonObj.toJson(list);

}

```

```

while(result.next()){
        xVal = result.getString("withdraw_amount");
        map = new HashMap<Object,Object>(); map.put("label",result.getString("Date"));
        map.put("y", Double.parseDouble(xVal)); lists.add(map);
        dataPoints2 = gsonObj2.toJson(lists);

}

```

```

%>

```

```

<script type="text/javascript">
window.onload = function() {

<% if(dataPoints != null) { %>

```

```

var chart = new CanvasJS.Chart("chartContainer", {
    theme: "light2",
    title: {
        text: "Deposit Updates Over The Recent Months"
    },
    subtitles: [{
        text: "Months"
    }],
    axisY: {

        title: "Balance",

    },
    data: [{
        type: "bar",
        indexLabel: "{yVal}",
        indexLabelFontColor: "#444",
        indexLabelPlacement: "inside",
        dataPoints: <%out.print(dataPoints);%>
    }]
});
chart.render();

<% } %>

```

```

<% if(dataPoints2 != null) { %>

```

```

var chart = new CanvasJS.Chart("chartContainers", {
    theme: "light2",
    title: {
        text: "Withdraw Updates Over The Recent Months"
    },
    subtitles: [{
        text: "Months"
    }],
    axisY: {

        title: "Balance",

    },
    data: [{
        type: "bar",
        indexLabel: "{xVal}",
        indexLabelFontColor: "#444",
        indexLabelPlacement: "inside",
        dataPoints: <%out.print(dataPoints2);%>
    }]
});
chart.render();

```

```
<% } %>
```

```
}
</script>
```

```
<style>
```

```
  @import url('https://fonts.googleapis.com/css2?family=Oswald:wght@700&display=swap');
```

```
  @import url('https://fonts.googleapis.com/css2?family=Roboto+Mono&display=swap');
```

```
body,html{
```

```
  margin:0;
```

```
  padding:0;
```

```
}
```

```
.side{
```

```
  display:flex;
```

```
}
```

```
.user{
```

```
  padding-left:20px;
```

```
  padding-bottom:20px;
```

```
  padding-top:10px;
```

```
}
```

```
.user h2{
```

```
  color:gray;
```

```
}
```

```
.py{
```

```
  flex: auto;
```

```
}
```

```
.py.pi a,h2{
```

```
  text-decoration: none;
```

```
  margin-bottom: 20px;
```

```
  color:white;
```

```
  padding-left: 30px;
```

```
  padding-bottom: 5px;
```

```
  padding-top: 5px;
```

```
  font-size: 20px;
```

```
  margin-top: 80px;
```

```
  padding-right: 60px;
```

```
  font-family: 'Comic Neue', cursive;
```

```
}
```

```
.py.pi hr{
```

```
  width:90%;
```

```
}
```

```
.sim{
```

```
  background-image:url(images/linear-green-gradient-1920x1080-c2-20b2aa-8fbc8f-a-135-f-14.svg);
```

```

}
#chartContainer,#chartContainers{
    margin-left: 50px;
}
.user-sim{
    color:white;
}
.user-sim.sim{
    display:inline-block;
margin-left:580px;
}
.user-sim.sim a{
    text-decoration: none;
    background-color: white;
    padding:10px 10px;
    margin-left:10px;

}
.sim{
    display: flex;

    padding-left:60px;
    padding-top:30px;
    padding-bottom:20px;

}
.py.pi{
    background-image:url(images/darkpurple.jpg);
    height:1200px;

}
.py.pi a:hover{
    background-color: rgba(255, 255, 255, 0.568);
}
.py.pe{
    width:1200px;
}

}
.infos{
    display:flex;
    padding-top:50px;
    padding-bottom:100px;

}
.infos p{
    flex:auto;
    border:1px solid black;

```



```

padding-top:50px;
padding-bottom:50px;
border:none;
font-size:25px;
text-align: center;
color:white;
font-family: 'Lemonada', cursive;
}
.ppp{
background-image: url(images/yellowish.jpg);
}
.pp{
background-image: url(images/pinkish.jpg);
}
.p{
background-image: url(images/bluish.jpg);
}

.combine{
display:flex;
}
</style>

</head>
<body>

<div class="side">

<div class="py pi">
<br>
<br>

<br>
<br>
<%
Statement y = conn.createStatement();
ResultSet h = y.executeQuery("Select gender from users_table where
Account_user_id='"+accusid+"'");
h.next();
String gen = h.getString("gender").toUpperCase();
String f = "FEMALE";
String L = "MALE";
if(gen.contains(f)){
out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_female_avatar_w3jk.svg' >");

```

```

    }
    else if(gen.contains(L)){
        out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_male_avatar_323b.svg' >");
    }
    %>
    <br>
    <h2>
        <% if(rss.next()){
out.print(rss.getString("first_name")+" "+rss.getString("last_name"));
        %>

    </h2>
    <br>

    <br>
    <hr>
    <br>
    <br>
    <br>

    <a href="dash.jsp"> Account Information</a>
    <br>
    <br>
    <br>
    <br>
    <a href="withdraw.jsp">Withdraw</a>
    <br>
    <br>
    <br>
    <br>
    <a href="deposit.jsp">Deposit</a>
    <br>
    <br>
    <br>
    <br>
    <a href="withdrawhis.jsp">Withdraw History</a>
    <br>
    <br>
    <br>
    <br>
    <a href="deposithis.jsp">Deposit History</a>
    <br>
    <br>
    <br>
    <br>
    <a href="transfer.jsp">Transfer</a>
    <br>
    <br>
    <br>

```

```

<br>
<a href="transferhis.jsp">Transfer History</a>
<br>
<br>
<br>
<br>
</div>

<div class="py pe">
  <div class="header">
    <div class="user">
      <h2>User Dashboard</h2>

    </div>
    <div class="sim">
      <div class="user-sim">
        <h1>Balance: ₹
          <%

if(rs.next()){
  out.print(rs.getString("balance"));
  <%>
  </h1>

  </div>
  <div class="user-sim sim">
    <a href="withdraw.jsp">Withdraw</a>
    <a href="deposit.jsp">Deposit</a>
  </div>
</div>
  <br>
  <br>

  <div class="info">

    <%
      if(rrss.next()){
        out.println("<div class="+
          "infos >"+ "<p class"
          + "=p >Account type <br><br>"+
          rrss.getString("Account_type")+
          "</p>"+ "<p class"
          + "=ppp > Account no <br><br>"+rrss.getString("Account_no")+
          "</p>"+ "<p class"
          + "=pp >Branch name <br><br>"+rrss.getString("Branch_name")+
          "</p> </div>");
      }
    <%>

  </div>
  <div class="combine">

```

```

        <div id="chartContainer" style="height: 370px; width: 45%;"></div>
        <br>
        <div id="chartContainers" style="height: 370px; width: 45%;"></div>
        <br>
    </div>
</div>
</div>
</div>
        <% }
        catch(Exception e){
            out.print(e.getMessage());
        }
    %>
    <script src="https://canvasjs.com/assets/script/canvasjs.min.js"></script>
</body>
</html>

```

Withdraw Money window

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*"%>
<%@ page import="java.util.Calendar"%>
<%@ page import="java.util.Date"%>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Withdraw</title>

    <style>
        @import url('https://fonts.googleapis.com/css2?family=Oswald:wght@700&display=swap');
        @import url('https://fonts.googleapis.com/css2?family=Roboto+Mono&display=swap');
        body,html{
            margin:0;
            padding:0;
        }
        .side{
            display:flex;

        }
        .user{
            padding-left:20px;
            padding-bottom:20px;
            padding-top:10px;

```

```

}
.user h2{

    color:gray;
    text-align: left;

}
.py{
    flex: auto;
}
.py.pi a,h3{
    text-decoration: none;
    margin-bottom: 20px;
    color:white;
    padding-left: 30px;
    padding-bottom: 5px;
    padding-top: 5px;
    font-size: 20px;
    margin-top: 80px;
    padding-right: 60px;
    font-family: 'Comic Neue', cursive;

}
.py.pi hr{
    width:90%;
}

.py.pi{
    background-image:url(images/darkpurple.jpg);
    height:1100px;
}
.py.pi a:hover{
    background-color: rgba(255, 255, 255, 0.568);
}
.py.pe{
    width:1200px;
}

.user-sim h1,h2{
    text-align:center;
    color:black;

}
.user-sim h1{
    font-family: 'Anton', sans-serif;
    padding-bottom:60px;
}

```

```

input{
    border:none;
    border-bottom: 1px solid skyblue;
    padding-bottom:20px;
    padding-top: 20px;
    font-size: 20px;
    width:300px;
    padding-left:10px;

}

</style>

</head>
<body>

<%

String accno = (String)session.getAttribute("accno");
String accusid = (String)session.getAttribute("accusid");
try{
    Class.forName("com.mysql.jdbc.Driver");
    String uname = "root";
    String pass="";

    String url = "jdbc:mysql://localhost:3306/bank";
    Connection conn = DriverManager.getConnection(url,uname,pass);
    Statement st = conn.createStatement();
    Statement stt = conn.createStatement();
    Statement sstt = conn.createStatement();

    ResultSet rss = stt.executeQuery("SELECT first_name,last_name FROM users_table where
Account_user_id='"+accusid+"'");
    ResultSet rrss = sstt.executeQuery("SELECT balance FROM account_table where
Account_user_id='"+accusid+"'");

    %>

<div class="side">

    <div class="py pi">
        <br>
        <br>

        <br>
        <br>
        <%

```

```

Statement y = conn.createStatement();
ResultSet h = y.executeQuery("Select gender from users_table where
Account_user_id='"+accusid+"'");
h.next();
String gen = h.getString("gender").toUpperCase();
String f = "FEMALE";
String L = "MALE";
if(gen.contains(f)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_female_avatar_w3jk.svg' >");
}
else if(gen.contains(L)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_male_avatar_323b.svg' >");
}
%>
<br>
<h3>
    <% if(rss.next()){
out.print(rss.getString("first_name")+" "+rss.getString("last_name"));
    %>

</h3>
<br>
<br>
<br>
<hr>
<br>
<br>
<br>

<a href="dash.jsp"> Account Information</a>
<br>
<br>
<br>
<br>
<a href="withdraw.jsp">Withdraw</a>
<br>
<br>
<br>
<br>
<a href="deposit.jsp">Deposit</a>
<br>
<br>
<br>
<br>
<a href="withdrawhis.jsp">Withdraw History</a>
<br>
<br>
<br>
<br>
<a href="deposithis.jsp">Deposit History</a>

```

```

<br>
<br>
<br>
<br>
<a href="transfer.jsp">Transfer</a>
<br>
<br>
<br>
<br>
<a href="transferhis.jsp">Transfer History</a>
<br>
<br>
<br>
<br>
</div>

```

```

<div class="py pe">
  <div class="header">
    <div class="user">
      <h2>User Dashboard</h2>
      <hr>

    </div>
    <div class="sim">
      <div class="user-sim">
        <h1>Withdrawal Amount</h1>
        <h2>Account no: <%
          out.print(accno);
        %></h2>
        <h2>Balance: ₹<%if(rrss.next()){
          out.print(rrss.getString("balance"));
        }%></h2>

      </div>
      <br>
      <br>
      <br>
      <br>
      <br>
      <center>
        <form action="withsucces.jsp">
          <input type="number" name="withamount" placeholder="Amount">
          <input type="submit" name="with" value="Withdraw">
        </form>
      </center>
    </div>
  </div>

```

```

</div>
</div>

```



```

</div>

        <% }
        catch(Exception e){
        out.print(e.getMessage());
        }
    %>
</body>
</html>

```

Deposit money window

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*"%>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Deposit</title>

<style>
    @import url('https://fonts.googleapis.com/css2?family=Oswald:wght@700&display=swap');
    @import url('https://fonts.googleapis.com/css2?family=Roboto+Mono&display=swap');
    body,html{
        margin:0;
        padding:0;
    }
    .side{
        display:flex;

    }
    .user{
        padding-left:20px;
        padding-bottom:20px;
        padding-top:10px;
    }
    .user h2{

        color:gray;
        text-align: left;

    }
    .py{
        flex: auto;
    }
    .py.pi a,h3{
        text-decoration: none;
        margin-bottom: 20px;
        color:white;
    }

```

```

padding-left: 30px;
padding-bottom: 5px;
padding-top: 5px;
font-size: 20px;
margin-top: 80px;
padding-right: 60px;
font-family: 'Comic Neue', cursive;

}
.py.pi hr{
    width:90%;
}

.py.pi{
    background-image:url(images/darkpurple.jpg);
    height:1100px;
}
.py.pi a:hover{
    background-color: rgba(255, 255, 255, 0.568);
}
.py.pe{
    width:1200px;
}

.user-sim h1,h2{
    text-align:center;
    color:black;
}
.user-sim h1 {
    font-family: 'Anton', sans-serif;
    padding-bottom:60px;
}

input{
    border:none;
    border-bottom: 1px solid skyblue;
    padding-bottom:20px;
    padding-top: 20px;
    font-size: 20px;
    width:300px;
    padding-left:10px;
}
.image img{
    margin-top: 70px;
    margin-left: 870px;
}

```

```

</style>

</head>
<body>

<%

String accno = (String)session.getAttribute("accno");
String accusid = (String)session.getAttribute("accusid");
try{
    Class.forName("com.mysql.jdbc.Driver");
    String uname = "root";
    String pass="";

    String url = "jdbc:mysql://localhost:3306/bank";
    Connection conn = DriverManager.getConnection(url,uname,pass);
    Statement st = conn.createStatement();
    Statement stt = conn.createStatement();
    Statement sstt = conn.createStatement();

    ResultSet rss = stt.executeQuery("SELECT first_name,last_name FROM users_table where
Account_user_id='"+accusid+"'");
    ResultSet rrss = sstt.executeQuery("SELECT balance FROM account_table where
Account_user_id='"+accusid+"'");

    %>

<div class="side">
    <div class="py pi">
        <br>
        <br>

        <br>
        <br>
        <%
            Statement y = conn.createStatement();
            ResultSet h = y.executeQuery("Select gender from users_table where
Account_user_id='"+accusid+"'");
            h.next();
            String gen = h.getString("gender").toUpperCase();

String f = "FEMALE";
String L = "MALE";
if(gen.contains(f)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_female_avatar_w3jk.svg' >");
}
else if(gen.contains(L)){

```

```

        out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_male_avatar_323b.svg' >");
    }
    %>
    <br>
    <h3>
        <% if(rss.next()){
out.print(rss.getString("first_name")+" "+rss.getString("last_name"));
        %>

    </h3>
    <br>
    <br>
    <hr>
    <br>
    <br>
    <br>

    <a href="dash.jsp"> Account Information</a>
    <br>
    <br>
    <br>
    <br>
    <a href="withdraw.jsp">Withdraw</a>
    <br>
    <br>
    <br>
    <br>
    <a href="deposit.jsp">Deposit</a>
    <br>
    <br>
    <br>
    <br>
    <a href="withdraw.jsp">Withdraw History</a>
    <br>
    <br>
    <br>
    <br>
    <a href="deposit.jsp">Deposit History</a>
    <br>
    <br>
    <br>
    <br>
    <a href="transfer.jsp">Transfer</a>
    <br>
    <br>
    <br>
    <a href="transferhis.jsp">Transfer History</a>
    <br>
    <br>
    <br>

```

```

        <br>
    </div>

    <div class="py pe">
        <div class="header">
            <div class="user">
                <h2>User Dashboard</h2>
                <hr>

            </div>
            <div class="sim">
                <div class="user-sim">
                    <h1>Deposit Amount</h1>
                    <h2>Account no: <%
                        out.print(accno);
                    %></h2>
                    <h2>Balance: ₹<%if(rrss.next()){
                        out.print(rrss.getString("balance"));
                    } %></h2>

                </div>
                <br>
                <br>
                <br>
                <br>
                <br>
                <center>
                    <form action="dipsuccess.jsp">
                        <input type="number" name="dipamount" placeholder="Amount">

                        <input type="submit" name="dipth" value="Deposit">
                    </form>

                </center>
                <div class="image">
                    
                </div>

            </div>

        </div>

    </div>
</div>
</div>

    <% }
    catch(Exception e){
    out.print(e.getMessage());

```

```

    }
    %>
</body>
</html>

```

Intra-bank money transfer window

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*"%>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Transfer</title>

```

```

<style>
    @import url('https://fonts.googleapis.com/css2?family=Oswald:wght@700&display=swap');
    @import url('https://fonts.googleapis.com/css2?family=Roboto+Mono&display=swap');
    body,html{
        margin:0;
        padding:0;
    }
    .side{
        display:flex;

    }
    .user{
        padding-left:20px;
        padding-bottom:20px;
        padding-top:10px;
    }
    .user h2{

        color:gray;
        text-align: left;

    }
    .py{
        flex: auto;
    }
    .py.pi a,h3{
        text-decoration: none;
        margin-bottom: 20px;
        color:white;
        padding-left: 30px;
        padding-bottom: 5px;
        padding-top: 5px;
        font-size: 20px;
        margin-top: 80px;
        padding-right: 60px;
    }

```

```
font-family: 'Comic Neue', cursive;
```

```
}
.py.pi hr{
  width:90%;
}
```

```
.py.pi{
  background-image:url(images/darkpurple.jpg);
  height:1100px;
}
.py.pi a:hover{
  background-color: rgba(255, 255, 255, 0.568);
}
.py.pe{
  width:1200px;
}
```

```
.user-sim h1,h2{
  text-align:center;
  color:black;
```

```
}
.user-sim h1{
  font-family: 'Anton', sans-serif;
  padding-bottom:60px;
}
```

```
input{
  border:none;
  border-bottom: 1px solid skyblue;
  padding-bottom:20px;
  padding-top: 20px;
  font-size: 20px;
  width:300px;
  padding-left:10px;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<%
```

```
String accno = (String)session.getAttribute("accno");
```

```

String accusid = (String)session.getAttribute("accusid");
try{
    Class.forName("com.mysql.jdbc.Driver");
    String uname = "root";
    String pass="";

    String url = "jdbc:mysql://localhost:3306/bank";
    Connection conn = DriverManager.getConnection(url,uname,pass);
    Statement st = conn.createStatement();
    Statement stt = conn.createStatement();
    Statement sstt = conn.createStatement();

    ResultSet rss = stt.executeQuery("SELECT first_name,last_name FROM users_table where
Account_user_id='"+accusid+"'");
    ResultSet rrss = sstt.executeQuery("SELECT balance FROM account_table where
Account_user_id='"+accusid+"'");

    %>

```

```

<div class="side">

    <div class="py pi">
        <br>
        <br>

        <br>
        <br>
        <%
Statement y = conn.createStatement();
ResultSet h = y.executeQuery("Select gender from users_table where
Account_user_id='"+accusid+"'");
h.next();
String gen = h.getString("gender").toUpperCase();
String f = "FEMALE";
String L = "MALE";
if(gen.contains(f)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_female_avatar_w3jk.svg' >");
}
else if(gen.contains(L)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_male_avatar_323b.svg' >");
}
    %>
    <br>
    <h3>
        <% if(rss.next()){
            out.print(rss.getString("first_name")+" "+rss.getString("last_name"));
        }
    %>

```


%>

</h3>

<hr>

 Account Information

Withdraw

Deposit

Withdraw History

Deposit History

Transfer

Transfer History

</div>

<div class="py pe">

<div class="header">

<div class="user">

<h2>User Dashboard</h2>

<hr>

```

</div>
<div class="sim">
  <div class="user-sim">
    <h1>Transfer Money</h1>
    <h2>Account no: <%
      out.print(accno);
    %></h2>
    <h2>Balance: ₹<%if(rrss.next()){
      out.print(rrss.getString("balance"));
    }%></h2>

  </div>
  <br>
  <br>
  <br>
  <br>
  <br>
  <center>
    <form action="transfersuccess.jsp">
      <input type="number" name="recaccno" placeholder="Receiver's Account no">
      <br>
      <input type="number" name="transamount" placeholder="Amount">
      <br>
      <input type="submit" name="dipth" value="Transfer">
    </form>
  </center>
</div>

```

```

</div>
</div>
</div>

```

```

<% }
catch(Exception e){
out.print(e.getMessage());

```

```

}

```

```

%>
</body>

```

```

</html>

```

Transaction history

1-Withdraw history

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>

```

```

<%@ page import="java.sql.*"%>

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Withdraw History</title>

<style>
  @import url('https://fonts.googleapis.com/css2?family=Oswald:wght@700&display=swap');
  @import url('https://fonts.googleapis.com/css2?family=Roboto+Mono&display=swap');
  body,html{
    margin:0;
    padding:0;
  }
  .side{
    display:flex;

  }
  .user{
    padding-left:20px;
    padding-bottom:20px;
    padding-top:10px;
  }
  .user h2{

    color:gray;
    text-align: left;

  }
  .py{
    flex: auto;
  }
  .py.pi a,h3{
    text-decoration: none;
    margin-bottom: 20px;
    color:white;
    padding-left: 30px;
    padding-bottom: 5px;
    padding-top: 5px;
    font-size: 20px;
    margin-top: 80px;
    padding-right: 60px;
    font-family: 'Comic Neue', cursive;

  }
  .py.pi hr{
    width:90%;

```

```

}

.py.pi{
    background-image:url(images/darkpurple.jpg);
    height:1200px;
}
.py.pi a:hover{
    background-color: rgba(255, 255, 255, 0.568);
}
.py.pe{
    width:1200px;
}

.user-sim h1,h2{
    text-align:center;
    color:black;
}
.user-sim h1 {
    font-family: 'Anton', sans-serif;
    padding-bottom:60px;
}

input{
    border:none;
    border-bottom: 1px solid skyblue;
    padding-bottom:20px;
    padding-top: 20px;
    font-size: 20px;
    width:300px;
    padding-left:10px;
}
.image img{
    margin-top: 70px;
    margin-left: 870px;
}
tr,td{
    text-align: center;
}
.td{
    font-size: 20px;

    background-color: rgba(189, 33, 189, 0.925);
    color:white;
}
td{

```

```

        background-color: darkorange;
        color:white;
    }
    table{

        width:100%;
        margin-top: 50px;

    }

</style>

</head>
<body>

<%

String accno = (String)session.getAttribute("accno");
String accusid = (String)session.getAttribute("accusid");
try{
    Class.forName("com.mysql.jdbc.Driver");
    String uname = "root";
    String pass="";

    String url = "jdbc:mysql://localhost:3306/bank";
    Connection conn = DriverManager.getConnection(url,uname,pass);
    Statement st = conn.createStatement();
    Statement stt = conn.createStatement();
    Statement sstt = conn.createStatement();

    ResultSet rss = stt.executeQuery("SELECT first_name,last_name FROM users_table where
Account_user_id='"+accusid+"'");
    ResultSet rrss = sstt.executeQuery("SELECT balance FROM account_table where
Account_user_id='"+accusid+"'");

    %>

<div class="side">

    <div class="py pi">
        <br>
        <br>

        <br>
        <br>
        <%

```

```

Statement y = conn.createStatement();
ResultSet h = y.executeQuery("Select gender from users_table where
Account_user_id='"+accusid+"'");
h.next();
String gen = h.getString("gender").toUpperCase();
String f = "FEMALE";
String L = "MALE";
if(gen.contains(f)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_female_avatar_w3jk.svg' >");
}
else if(gen.contains(L)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_male_avatar_323b.svg' >");
}
%>
<br>
<h3>
    <% if(rss.next()){
out.print(rss.getString("first_name")+" "+rss.getString("last_name"));
    %>

</h3>
<br>
<br>
<br>
<hr>
<br>
<br>
<br>

<a href="dash.jsp"> Account Information</a>
<br>
<br>
<br>
<br>
<a href="withdraw.jsp">Withdraw</a>
<br>
<br>
<br>
<br>
<a href="deposit.jsp">Deposit</a>
<br>
<br>
<br>
<br>
<a href="withdrawhis.jsp">Withdraw History</a>
<br>
<br>
<br>
<br>
<a href="deposithis.jsp">Deposit History</a>

```

```

<br>
<br>
<br>
<br>
<a href="transfer.jsp">Transfer Money</a>
<br>
<br>
<br>
<br>
<a href="transferhis.jsp">Transfer History</a>
<br>
<br>
<br>
<br>
</div>

```

```

<div class="py pe">
  <div class="header">
    <div class="user">
      <h2>User Dashboard</h2>
      <hr>

    </div>
    <div class="sim">
      <div class="user-sim">
        <h1>Withdraw History</h1>
        <h2>Account no: <%
          out.print(accno);
        %></h2>
        <h2>Balance: ₹<%if(rrss.next()){
          out.print(rrss.getString("balance"));
        } %></h2>

      </div>
      <br>
      <table>
        <tr>
          <td class="td">S No.</td>
          <td class="td">Account No</td>
          <td class="td">Withdraw Amount</td>
          <td class="td">Account User ID</td>
          <td class="td">Balance Due</td>
          <td class="td">Month</td>
          <td class="td">Date</td>

        </tr>

        <%
          Statement sd = conn.createStatement();
          ResultSet rh = sd.executeQuery("select * from withdraw_table where Account_no =" + accno);

```

```

        int c = 1;
        while(rh.next())
    {
        %>
        <tr>
            <td><%= c %></td>
            <td><%= rh.getString(1) %></td>
            <td><%= rh.getString(2) %></td>
            <td><%= rh.getString(3) %></td>
            <td><%= rh.getString(4) %></td>
            <td><%= rh.getString(5) %></td>
            <td><%= rh.getString(6) %></td>

        </tr>

        <%
            c++;}
        %>
    </table>
    <br>
    <br>
    <br>
    <br>

</div>

</div>
</div>

    <% }

    catch(Exception e){
        out.print(e.getMessage());

    }

    %>
</body>

```



```
</html>
```

2-Deposit history

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

```
<%@ page import="java.sql.*"%>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <title>Deposit History</title>
```

```
<style>
```

```
  @import url('https://fonts.googleapis.com/css2?family=Oswald:wght@700&display=swap');
```

```
  @import url('https://fonts.googleapis.com/css2?family=Roboto+Mono&display=swap');
```

```
  body,html{
    margin:0;
    padding:0;
  }
```

```
  .side{
    display:flex;
```

```
}
```

```
  .user{
    padding-left:20px;
    padding-bottom:20px;
    padding-top:10px;
  }
```

```
  .user h2{

    color:gray;
    text-align: left;
```

```
}
```

```
  .py{
    flex: auto;
  }
```

```
  .py.pi a,h3{
    text-decoration: none;
    margin-bottom: 20px;
    color:white;
    padding-left: 30px;
    padding-bottom: 5px;
    padding-top: 5px;
    font-size: 20px;
    margin-top: 80px;
    padding-right: 60px;
```

```

font-family: 'Comic Neue', cursive;

}
.py.pi hr{
    width:90%;
}

.py.pi{
    background-image:url(images/darkpurple.jpg);
    height:1200px;
}
.py.pi a:hover{
    background-color: rgba(255, 255, 255, 0.568);
}
.py.pe{
    width:1200px;
}

.user-sim h1,h2{
    text-align:center;
    color:black;
}
.user-sim h1{
    font-family: 'Anton', sans-serif;
    padding-bottom:60px;
}

input{
    border:none;
    border-bottom: 1px solid skyblue;
    padding-bottom:20px;
    padding-top: 20px;
    font-size: 20px;
    width:300px;
    padding-left:10px;
}
.image img{
    margin-top: 70px;
    margin-left: 870px;
}
tr,td{
    text-align: center;
}
.td{
    font-size: 20px;

```

```

        background-color: rgba(189, 33, 189, 0.925);
        color:white;

    }
    td{
        background-color: darkorange;
        color:white;
    }
    table{

        width:100%;
        margin-top: 50px;

    }

</style>

</head>
<body>

<%

String accno = (String)session.getAttribute("accno");
String accusid = (String)session.getAttribute("accusid");
try{
    Class.forName("com.mysql.jdbc.Driver");
    String uname = "root";
    String pass="";

    String url = "jdbc:mysql://localhost:3306/bank";
    Connection conn = DriverManager.getConnection(url,uname,pass);
    Statement st = conn.createStatement();
    Statement stt = conn.createStatement();
    Statement sstt = conn.createStatement();

    ResultSet rss = stt.executeQuery("SELECT first_name,last_name FROM users_table where
Account_user_id='"+accusid+"'");
    ResultSet rrss = sstt.executeQuery("SELECT balance FROM account_table where
Account_user_id='"+accusid+"'");

    %>

<div class="side">

    <div class="py pi">

```

```

<br>
<br>

<br>
<br>
<%
Statement y = conn.createStatement();
ResultSet h = y.executeQuery("Select gender from users_table where
Account_user_id='"+accusid+"'");
h.next();
String gen = h.getString("gender").toUpperCase();
String f = "FEMALE";
String L = "MALE";
if(gen.contains(f)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_female_avatar_w3jk.svg' >");
}
else if(gen.contains(L)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_male_avatar_323b.svg' >");
}
%>
<br>
<h3>
    <% if(rss.next()){
out.print(rss.getString("first_name")+" "+rss.getString("last_name"));
    %>

</h3>
<br>
<br>
<hr>
<br>
<br>
<br>

<a href="dash.jsp"> Account Information</a>
<br>
<br>
<br>
<br>
<a href="withdraw.jsp">Withdraw</a>
<br>
<br>
<br>
<br>
<a href="deposit.jsp">Deposit</a>
<br>
<br>
<br>
<br>

```

```

<a href="withdrawhis.jsp">Withdraw History</a>
<br>
<br>
<br>
<br>
<a href="deposithis.jsp">Deposit History</a>
<br>
<br>
<br>
<br>
<a href="transfer.jsp">Transfer Money</a>
<br>
<br>
<br>
<br>
<a href="transferhis.jsp">Transfer History</a>
<br>
<br>
<br>
<br>
</div>

```

```

<div class="py pe">
  <div class="header">
    <div class="user">
      <h2>User Dashboard</h2>
      <hr>

    </div>
    <div class="sim">
      <div class="user-sim">
        <h1>Deposit History</h1>
        <h2>Account no: <%
          out.print(accno);
        %></h2>
        <h2>Balance: ₹<%if(rrss.next()){
          out.print(rrss.getString("balance"));
        }%></h2>

      </div>
      <br>
      <table>
        <tr>
          <td class="td">S No.</td>
          <td class="td">Account No</td>
          <td class="td">Deposit Amount</td>
          <td class="td">Account User ID</td>
          <td class="td">Balance Due</td>
          <td class="td">Month</td>
          <td class="td">Date</td>

```

```

        </tr>

        <%
Statement sd = conn.createStatement();
ResultSet rh = sd.executeQuery("select * from deposit_table where Account_no =" + accno);
int c = 1;
while(rh.next())
{
    <%>
    <tr>
        <td><%= c %></td>
        <td><%= rh.getString(1) %></td>
        <td><%= rh.getString(2) %></td>
        <td><%= rh.getString(3) %></td>
        <td><%= rh.getString(4) %></td>
        <td><%= rh.getString(5) %></td>
        <td><%= rh.getString(6) %></td>

    </tr>

    <%
    c++;}
    %>
</table>
    <br>
    <br>
    <br>
    <br>

</div>
</div>
</div>
</div>

    <% }
    catch(Exception e){
    out.print(e.getMessage());
    }
    %>
</body>
</html>

```

3-Intra-bank transfer money history

```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<%@ page import="java.sql.*"%>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Withdraw History</title>

<style>
    @import url('https://fonts.googleapis.com/css2?family=Oswald:wght@700&display=swap');
    @import url('https://fonts.googleapis.com/css2?family=Roboto+Mono&display=swap');
    body,html{
        margin:0;
        padding:0;
    }
    .side{
        display:flex;

    }
    .user{
        padding-left:20px;
        padding-bottom:20px;
        padding-top:10px;
    }
    .user h2{

        color:gray;
        text-align: left;

    }
    .py{
        flex: auto;
    }
    .py.pi a,h3{
        text-decoration: none;
        margin-bottom: 20px;
        color:white;
        padding-left: 30px;
        padding-bottom: 5px;
        padding-top: 5px;
        font-size: 20px;
        margin-top: 80px;
        padding-right: 60px;
        font-family: 'Comic Neue', cursive;
    }

```

```

}
.py.pi hr{
    width:90%;
}

.py.pi{
    background-image:url(images/darkpurple.jpg);
    height:1200px;
}
.py.pi a:hover{
    background-color: rgba(255, 255, 255, 0.568);
}
.py.pe{
    width:1200px;
}

.user-sim h1,h2{
    text-align:center;
    color:black;
}

.user-sim h1 {
    font-family: 'Anton', sans-serif;
    padding-bottom:60px;
}

input{
    border:none;
    border-bottom: 1px solid skyblue;
    padding-bottom:20px;
    padding-top: 20px;
    font-size: 20px;
    width:300px;
    padding-left:10px;
}

.image img{
    margin-top: 70px;
    margin-left: 870px;
}
tr,td{
    text-align: center;
}

.td{
    font-size: 20px;

    background-color: rgba(189, 33, 189, 0.925);

```



```

        color:white;

    }
    td{
        background-color: darkorange;
        color:white;
    }
    table{

        width:100%;
        margin-top: 50px;

    }

</style>

</head>
<body>

<%

String accno = (String)session.getAttribute("accno");
String accusid = (String)session.getAttribute("accusid");
try{
    Class.forName("com.mysql.jdbc.Driver");
    String uname = "root";
    String pass="";

    String url = "jdbc:mysql://localhost:3306/bank";
    Connection conn = DriverManager.getConnection(url,uname,pass);
    Statement st = conn.createStatement();
    Statement stt = conn.createStatement();
    Statement sstt = conn.createStatement();

    ResultSet rss = stt.executeQuery("SELECT first_name,last_name FROM users_table where
Account_user_id='"+accusid+"'");
    ResultSet rrss = sstt.executeQuery("SELECT balance FROM account_table where
Account_user_id='"+accusid+"'");

    %>

<div class="side">

    <div class="py pi">
        <br>
        <br>

```

```

<br>
<br>
<%
Statement y = conn.createStatement();
ResultSet h = y.executeQuery("Select gender from users_table where
Account_user_id='"+accusid+"'");
h.next();
String gen = h.getString("gender").toUpperCase();
String f = "FEMALE";
String L = "MALE";
if(gen.contains(f)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_female_avatar_w3jk.svg' >");
}
else if(gen.contains(L)){
    out.print("<style>img{width:180px; margin-left:50px;}</style><img src='
images/undraw_male_avatar_323b.svg' >");
}
%>
<br>
<h3>
    <% if(rss.next()){
out.print(rss.getString("first_name")+" "+rss.getString("last_name"));
    %>

</h3>
<br>
<br>
<br>
<hr>
<br>
<br>
<br>

<a href="dash.jsp"> Account Information</a>
<br>
<br>
<br>
<br>
<a href="withdraw.jsp">Withdraw</a>
<br>
<br>
<br>
<br>
<a href="deposit.jsp">Deposit</a>
<br>
<br>
<br>
<br>
<a href="withdrawhis.jsp">Withdraw History</a>
<br>

```

```

<br>
<br>
<br>
<a href="deposithis.jsp">Deposit History</a>
<br>
<br>
<br>
<br>
<a href="transfer.jsp">Transfer Money</a>
<br>
<br>
<br>
<br>
<a href="transferhis.jsp">Transfer History</a>
<br>
<br>
<br>
<br>

</div>

<div class="py pe">
<div class="header">
<div class="user">
<h2>User Dashboard</h2>
<hr>

</div>
<div class="sim">
<div class="user-sim">
<h1>Intra-Bank Transfer History</h1>
<h2>Account no: <%
    out.print(accno);
%></h2>
<h2>Balance: ₹<%if(rrss.next()){
    out.print(rrss.getString("balance"));
}%></h2>

</div>
<br>
<table>
<tr>
<td class="td">S No.</td>
<td class="td">Account No</td>
<td class="td">Receiver Account No</td>
<td class="td">Amount</td>
<td class="td">Receiver Account user id</td>
<td class="td">Month</td>
<td class="td">Date</td>

</tr>

```

```

        <%
        Statement sd = conn.createStatement();
        ResultSet rh = sd.executeQuery("select * from transfer_table where Account_no =" + accno);
        int c = 1;
        while(rh.next())
    {
        %>
        <tr>
            <td><%= c %></td>
            <td><%= rh.getString(1) %></td>
            <td><%= rh.getString(2) %></td>
            <td><%= rh.getString(3) %></td>
            <td><%= rh.getString(4) %></td>
            <td><%= rh.getString(5) %></td>
            <td><%= rh.getString(6) %></td>

        </tr>

        <%

        c++;}
        %>
    </table>
    <br>
    <br>
    <br>
    <br>

</div>

</div>
</div>
</div>

        <% }
        catch(Exception e){
            out.print(e.getMessage());
        }
        %>
</body>
</html>

```

CSS Applied

```

body{
    background-image: url(images/823I2by.jpg);

}
html,body{
    margin:0;
    padding:0;

}

.in-header{
    display:flex;
    padding-left:180px;
    padding-right:100px;
    padding-top:80px;

}

.phase{

    flex:auto;
}
.phase h1{
    text-align: center;
}
.phase.coco{
    background-image: url(images/unnamed.jpg);

}
.phase.coco img{
    padding-left:210px;
    padding-top: 100px;
    margin-right:-130px;

}
.phase.coco h1{
    color:white;
}
.phase.coco p{
    color:white;
    text-align: center;
}
.login-container{
    display: flex;
    align-items: center;
    text-align:center;

```

```

}
form{
  width:360px;
  color:#333;

}
.fixing-it{
  display:grid;
  grid-template-columns: 7% 93%;
  margin:25px 0;
  padding:5px 0;
  border-bottom: 2px solid rgb(88, 88, 238);
}
form h2{

  font-size: 2.9rem;
  text-transform: uppercase;
  margin: 15px 0;
  font-family: 'Roboto Mono', monospace;
}
.i{
  display:flex;
  justify-content: center;
  align-items: center;

  justify-content: center;
  align-items:center;
}
.i i{
  color:#d9d9d9;

}
.fixing-it > div{
  position:relative;
  height:45px;
}
.fixing-it > div h5{
  position: absolute;
  left:10px;
  top:50%;
  transform: translateY(-90%);
  color:#999;
  font-size:18px;
  transition: 0.3s;
}
.input{
  position:absolute;
  width:100%;
  height:100%;
  top:0;
  left:0;

```

```

border: none;
background: none;
outline: none;
}
.fixing-it.one{
margin-top:0;

}
.fixing-it .i i{
color:blue;
}

.fixing-it.two{
margin-bottom: 4px;
}
.a a{
display: block;
text-align: right;
text-decoration: none;
font-size: 0.9rem;
transition: 0.3s;
color:gray;
}
.a a:hover{
color:blue;
}
.btn{
display:block;
width:100%;
height:45px;
border-radius: 25px;
margin:1rem 0;
font-size: 1.2rem;
outline:none;
border:none;
background-image: linear-gradient(to right, rgb(65, 65, 221),rgb(30, 30, 194),blue );
background-size: 200%;
cursor:pointer;
transition: 0.5s;
text-align: center;
color:white;
font-weight: bolder;

}
.btnn{
display:block;
width:100%;
height:45px;
border-radius: 25px;
margin:1rem 0;
font-size: 1.2rem;

```

```

outline:none;
border:none;
background-image: linear-gradient(to right, rgb(65, 65, 221),rgb(30, 30, 194),blue );
background-size: 200%;
cursor:pointer;
transition: 0.5s;
text-align: center;
color:white;
font-weight: bolder;

}

.btn:hover{
    background-position: right;
}

.fixing-it.focus div h5{
    top:5px;
    font-size: 15px;
}
form{
    margin-left: 100px;
}
form img{
    width:15%;
}
input{
    color:black;
}
.phase{
    background-color: white;
}
.phase.cool form{
    margin-right:-200px;

}

```

BACK-END CODE

Logging in

```

<%@ page import="java.sql.*"%>
<%@ page language="java" session="true"%>
<%
    String act = request.getParameter("act");
    if(act.equals("Login")){
        String accno = request.getParameter("accno");
        session.setAttribute("accno", accno);
        String accusid = request.getParameter("accusid");
        session.setAttribute("accusid", accusid);
        try{
            Class.forName("com.mysql.jdbc.Driver");

```



```

String uname = "root";
String pass = "";
Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank",uname,pass);
Statement st = con.createStatement();
ResultSet rs = st.executeQuery("SELECT * FROM account_table WHERE Account_no='"+accno+"'
AND Account_user_id='"+accusid+"'");
if(rs.next()){
    response.sendRedirect("dash.jsp");
}
else{
    String z = "index.jsp";
    out.println("<style>h1 {color:gray;font-size:100px;}"
        + "a {text-decoration:none;"
        + "padding:15px 20px 15px 20px;"
        + "color:white;"
        + "font-size:25px;"
        + "background-color:blue;"
        + "border-radius:25px;}"
        + "</style>"
        + "<center><br><br><br><br><br><br>"
        + "<h1>Account does not exists</h1><br>"
        + "<a href =\" +z+\" >Login</a></center>");
}
}
catch(Exception e){
    out.println(e);
}
}
else if(act.equals("Create Account")) {
    response.sendRedirect("createacc.jsp");
}
}

```

Creating Account and inserting data into table

```

<%@ page import="java.sql.*"%>
<%@ page language="java" session="true"%>
<%
String action = request.getParameter("action");
if(action.equals("Create Account")){
    String firstname = request.getParameter("firstname");
    String lastname = request.getParameter("lastname");
    String phoneno = request.getParameter("phoneno");
    String accountuserid = request.getParameter("accountuserid");
    session.setAttribute("accountuserid", accountuserid);
    String email = request.getParameter("email");
    String streetname = request.getParameter("streetname");
    String houseno = request.getParameter("houseno");
    String dob = request.getParameter("dob");
    String statecity = request.getParameter("state/city");
    String pincode = request.getParameter("pincode");
}
}

```

```

String gender = request.getParameter("gender");
String myfile = request.getParameter("myfile");

String accountno = request.getParameter("accountno");
session.setAttribute("accountno", accountno);
String accounttype= request.getParameter("accounttype");
String security = request.getParameter("security");
String balance = request.getParameter("balance");
String branchname = request.getParameter("branchname");
try{
    Class.forName("com.mysql.jdbc.Driver");
    String uname = "root";
    String pass = "";
    Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank",uname,pass);
    Statement st = con.createStatement();
    ResultSet rs = st.executeQuery("SELECT * FROM account_table WHERE Account_no='"+accountno+"'
AND Account_user_id='"+accountuserid+"'");
    if(rs.next()){
        String s= "index.jsp";
        out.println("<style>h1 {color:gray;font-size:100px;} "
            + "a {text-decoration:none;"
            + "padding:15px 20px 15px 20px;"
            + "color:white;"
            + "font-size:25px;"
            + "background-color:blue;"
            + "border-radius:25px;} "
            + "</style>"
            + "<center><br><br><br><br><br><br>"
            + "<h1>Account already exists</h1><br>"
            + "<a href='"+s+"'>Login</a></center>");
    }
    else{
        String qry= "INSERT INTO `users_table` (`Account_user_id`, `first_name`, `last_name`, `house_no`,
`street_name`, `city_state`, `pincode`, `email`, `phone_no`, `dob`, `gender`) VALUES ('"+accountuserid+"',
 '"+firstname+"', '"+lastname+"', '"+houseno+"', '"+streetname+"', '"+statecity+"', '"+pincode+"', '"+email+"',
 '"+phoneno+"', '"+dob+"', '"+gender+"')";
        String qrry= "INSERT INTO `account_table` (`Account_user_id`, `balance`, `Account_type`,
`Account_no`, `Branch_name`) VALUES ('"+accountuserid+"', '"+balance+"', '"+accounttype+"',
 '"+accountno+"', '"+branchname+"')";
        st.executeUpdate(qry);
        st.executeUpdate(qrry);
        String s= "index.jsp";
        out.println("<style>h1 {color:gray;font-size:100px;} "
            + "a {text-decoration:none;"
            + "padding:15px 20px 15px 20px;"
            + "color:white;"
            + "font-size:25px;"
            + "background-color:blue;"
            + "border-radius:25px;} "

```

```

+ "</style>"
+ "<center><br><br><br><br><br><br>"
+ "<h1>Account Created</h1><br>"
+ "<a href="+s+">Login</a></center>");

    response.sendRedirect("index.jsp");
}
}
catch(Exception e){
    out.println(e.getMessage());
}
}
else {
    response.sendRedirect("index.jsp");
}
}
%>

```

Forgot Password

```

<%@ page import="java.sql.*"%>
<%@ page language="java" session="true"%>
<%
    String act = request.getParameter("action");
    if(act.equals("Verify")){
        String accusid = request.getParameter("accountuserid");
        String secure = request.getParameter("security");
        String answer = request.getParameter("ans");

        try{
            Class.forName("com.mysql.jdbc.Driver");
            String uname = "root";
            String pass = "";
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank",uname,pass);
            Statement st = con.createStatement();
            Statement stt = con.createStatement();
            ResultSet rss = stt.executeQuery("SELECT pin_no FROM account_table WHERE
Account_user_id='"+accusid+"'");
            ResultSet rs = st.executeQuery("SELECT security_question,answers FROM account_table WHERE
Account_user_id='"+accusid+"'");
            if(rs.next()){
                String security = rs.getString("security_question");
                String ans = rs.getString("answers");
                if(ans.equals(answer) && security.equals(secure)){
                    rss.next();
                    String z = rss.getString("pin_no");
                    String mn = "index.jsp";
                    %>
                    <script type="text/javascript">
                    alert("Your pin is: <%=z%> ");
                    window.location.href = "index.jsp";
                    </script>
                    <%

```

```

    }
}
else{
    String z = "forgot.jsp";
    out.println("<style>h1 {color:gray;font-size:100px;} "
        + "a {text-decoration:none;"
        + "padding:15px 20px 15px 20px;"
        + "color:white;"
        + "font-size:25px;"
        + "background-color:blue;"
        + "border-radius:25px;} "
        + "</style>"
        + "<center><br><br><br><br><br><br>"
        + "<h1>Wrong details entered</h1><br>"
        + "<a href = " + z + " >Try again</a></center>");
}
}
catch(Exception e){
    out.println(e);
}
}
else if(act.equals("Create Account")) {
    response.sendRedirect("createacc.jsp");
}
%>

```

Deposit money and inserting data into table

```

<%@ page import="java.sql.*"%>
<%@ page language="java" session="true"%>
<%@ page import="java.util.Calendar"%>
<%@ page import="java.util.Date"%>
<%
    String deposit = request.getParameter("dipamount");
    String accno = (String)session.getAttribute("accno");
    String accusid = (String)session.getAttribute("accusid");
    String dipth = request.getParameter("dipth");
    Date d=new Date();
    Date today = new Date();
    Calendar cal = Calendar.getInstance();
    cal.setTime(today);
    String[] monthNames = {"January", "February", "March", "April", "May", "June", "July", "August",
"September", "October", "November", "December"};
    int month = cal.get(Calendar.MONTH);
    String monthsnames = monthNames[month];
    if(dipth.equals("Deposit")){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            String unname = "root";
            int bal_due=0;
            String pass = "";

```

```

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank",uname,pass);
Statement st = con.createStatement();
ResultSet rs = st.executeQuery("Select balance from account_table where Account_user_id = "+accusid);
rs.next();
String balance = rs.getString("balance");
int w = Integer.parseInt(deposit);
int s = Integer.parseInt(balance);
bal_due= s+w;
String qry= "INSERT INTO `deposit_table` (`Account_no`,
`deposit_amount`,`Account_user_id`,`balance_due`,`Month`,`Date`) VALUES ('"+accno+"', '"+deposit+"',
 '"+accusid+"', '"+bal_due+"', '"+monthsname+"', '"+java.time.LocalDate.now()+"')";
String qrry= "UPDATE account_table SET balance='"+ bal_due+" WHERE Account_no = '"+accno+" '";
st.executeUpdate(qry);
st.executeUpdate(qrry);
String z = "dash.jsp";
out.println("<style>h1 {color:gray;font-size:100px;} "
+ "a {text-decoration:none;"
+ "padding:15px 20px 15px 20px;"
+ "color:white;"
+ "font-size:25px;"
+ "background-color:blue;"
+ "border-radius:25px;} "
+ "</style>"
+ "<center><br><br><br><br><br><br>"
+ "<h1>Deposition Succesful</h1><br>"
+ "<a href='"+z+"'>Dashboard</a></center>");

}
catch(Exception e){
out.println(e.getMessage());
}
}
else{
out.print("withdraw cancel");
}
}
%>

```

Transferring money(intra-bank) and inserting data into table

```

<%@ page import="java.sql.*"%>
<%@ page language="java" session="true"%>
<%@ page import="java.util.Calendar"%>
<%@ page import="java.util.Date"%>
<%
String transfer = request.getParameter("transamount");
String accno = (String)session.getAttribute("accno");
String recaccno = request.getParameter("recaccno");
String accusid = (String)session.getAttribute("accusid");
String dipth = request.getParameter("dipth");

Date d=new Date();

```

```

    Date today = new Date();
    Calendar cal = Calendar.getInstance();
    cal.setTime(today);
    String[] monthNames = {"January", "February", "March", "April", "May", "June", "July", "August",
"September", "October", "November", "December"};
    int month = cal.get(Calendar.MONTH);
    String monthsnames = monthNames[month];
    if(dipth.equals("Transfer")){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            String uname = "root";
            int bal_due=0;
            int balance_due=0;
            String pass = "";
            Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank",uname,pass);
            Statement st = con.createStatement();
            ResultSet rs = st.executeQuery("Select balance from account_table where Account_no = "+recaccno);
            Statement stt = con.createStatement();
            ResultSet rss = stt.executeQuery("Select balance from account_table where Account_no = "+accno);
            Statement sst = con.createStatement();
            ResultSet rrss = sst.executeQuery("Select * from account_table where Account_no = "+recaccno);
            rs.next();
            String balance = rs.getString("balance");
            int w = Integer.parseInt(transfer);
            int s = Integer.parseInt(balance);
            bal_due= s+w;
            rss.next();
            String bal = rss.getString("balance");
            int n = Integer.parseInt(bal);
            balance_due= n-w;
            if(rrss.next()){
                String recaccusid = rrss.getString("Account_user_id");
                String qry= "INSERT INTO `deposit_table` (`Account_no`,
`deposit_amount`,`Account_user_id`,`balance_due`,`Month`,`Date`) VALUES ('"+recaccno+"', '"+transfer+"',
 '"+recaccusid+"', '"+bal_due+"', '"+monthsnames+"', '"+java.time.LocalDate.now()+")";
                String qqry= "UPDATE account_table SET balance="+ bal_due+" WHERE Account_no = '"+recaccno+"
";
                String query= "UPDATE account_table SET balance="+ balance_due+" WHERE Account_no =
 '"+accno+" ";
                String qqry= "INSERT INTO `withdraw_table` (`Account_no`,
`withdraw_amount`,`Account_user_id`,`balance_due`,`Month`,`Date`) VALUES ('"+accno+"', '"+transfer+",
 '"+accusid+"', '"+balance_due+"', '"+monthsnames+"', '"+java.time.LocalDate.now()+")";
                String qqry= "INSERT INTO `transfer_table` (`Account_no`,
`receiver_account_no`,`amount`,`Account_user_id`,`Month`,`Date`) VALUES ('"+accno+"', '"+recaccno+",
 '"+transfer+"', '"+recaccusid+"', '"+monthsnames+"', '"+java.time.LocalDate.now()+")";

                st.executeUpdate(qry);
                st.executeUpdate(qqry);
                stt.executeUpdate(query);
                st.executeUpdate(qqyy);
                sst.executeUpdate(qqry);

```

```

String z = "dash.jsp";
out.println("<style>h1 {color:gray;font-size:100px;}\"
    + \"a{text-decoration:none;\"
    + \"padding:15px 20px 15px 20px;\"
    + \"color:white;\"
    + \"font-size:25px;\"
    + \"background-color:blue;\"
    + \"border-radius:25px;}\"
    + \"</style>\"
    + \"<center><br><br><br><br><br><br>\"
    + \"<h1>Transfer Succesful</h1><br>\"
    + \"<a href=\"+z+\">Dashboard</a></center>\"");
}
else{
    String z = "dash.jsp";
    out.println("<style>h1 {color:gray;font-size:100px;}\"
        + \"a{text-decoration:none;\"
        + \"padding:15px 20px 15px 20px;\"
        + \"color:white;\"
        + \"font-size:25px;\"
        + \"background-color:blue;\"
        + \"border-radius:25px;}\"
        + \"</style>\"
        + \"<center><br><br><br><br><br><br>\"
        + \"<h1>Account no. does not exists</h1><br>\"
        + \"<a href=\"+z+\">Dashboard</a></center>\"");
    }
}
catch(Exception e){
    out.println(e.getMessage());
}
}
else{
    out.print("withdraw cancel");
}
}
%>

```

Withdrawing money and inserting data in table

```

<%@ page import="java.sql.*"%>
<%@ page language="java" session="true"%>
<%@ page import="java.util.Calendar"%>
<%@ page import="java.util.Date"%>
<%
    Date d=new Date();
    Date today = new Date();
    Calendar cal = Calendar.getInstance();
    cal.setTime(today);
    String[] monthNames = {"January", "February", "March", "April", "May", "June", "July", "August",
"September", "October", "November", "December"};

```

```

int month = cal.get(Calendar.MONTH); // 5
String monthsnames = monthNames[month];
String withdraw = request.getParameter("withamount");
String accno = (String)session.getAttribute("accno");
String accusid = (String)session.getAttribute("accusid");
String with = request.getParameter("with");

if(with.equals("Withdraw")){
    try{
        Class.forName("com.mysql.jdbc.Driver");
        String uname = "root";
        int bal_due=0;
        String pass = "";
        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank",uname,pass);
        Statement st = con.createStatement();
        ResultSet rs = st.executeQuery("Select balance from account_table where Account_user_id = '"+accusid);
        rs.next();
        String balance = rs.getString("balance");
        int w = Integer.parseInt(withdraw);
        int s = Integer.parseInt(balance);
        if(s<w){
            String z = "withdraw.jsp";
            out.println("<style>h1 {color:gray;font-size:100px;}"
                + "a {text-decoration:none;"
                + "padding:15px 20px 15px 20px;"
                + "color:white;"
                + "font-size:25px;"
                + "background-color:blue;"
                + "border-radius:25px;}"
                + "</style>"
                + "<center><br><br><br><br><br><br>"
                + "<h1>Not enogh balance</h1><br>"
                + "<a href='"+z+"'>Withdraw</a></center>");
        }
        else{
            bal_due= s-w;
            String qry= "INSERT INTO `withdraw_table` (`Account_no`,
`withdraw_amount`,`Account_user_id`,`balance_due`,`Month`,`Date`) VALUES ('"+accno+"', '"+withdraw+"',
 '"+accusid+"', '"+bal_due+"','"+monthsnames+"','"+java.time.LocalDate.now()+"')";
            String qrry= "UPDATE account_table SET balance='"+ bal_due+" WHERE Account_no = '"+accno+" '";
            st.executeUpdate(qry);
            st.executeUpdate(qrry);
            String z = "dash.jsp";
            out.println("<style>h1 {color:gray;font-size:100px;}"
                + "a {text-decoration:none;"
                + "padding:15px 20px 15px 20px;"
                + "color:white;"
                + "font-size:25px;"
                + "background-color:blue;"
                + "border-radius:25px;}"

```



```

        + "</style>"
        + "<center><br><br><br><br><br><br>"
        + "<h1>Withdrawal Succesful</h1><br>"
        + "<a href="+z+">Dashboard</a></center>");
    }
}
catch(Exception e){
    out.println(e.getMessage());
}
}
else{
    out.print("withdraw cancel");
}
}%>

```

JAVA DESKTOP APPLICATION(FRONT END + BACK END)

Login page

Banking.java

```
package login;
```

```

import javafx.application.Application;
import javafx.event.EventHandler;
import javafx.fxml.FXMLLoader;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.input.MouseEvent;
import javafx.stage.Stage;
import javafx.stage.StageStyle;

```

```
public class Banking extends Application {
```

```
    public static Stage stage = null;
```

```
    private double xoffset = 0;
```

```
    private double yoffset = 0;
```

```
    @Override
```

```
    public void start(Stage stage) throws Exception {
```

```
        Parent root = FXMLLoader.load(getClass().getResource("LoginScreen.fxml"));
```

```
        Scene scene = new Scene(root);
```

```
        scene.getStylesheets().add(getClass().getResource("/design/design.css").toExternalForm());
```

```
        stage.initStyle(StageStyle.UNDECORATED);
```

```
        stage.setScene(scene);
```

```
        root.setOnMousePressed(new EventHandler<MouseEvent>(){
```

```
            @Override
```

```

        public void handle(MouseEvent event) {
            xoffset=event.getSceneX();
            yoffset=event.getSceneY();
        }

    });

    root.setOnMouseDragged(new EventHandler<MouseEvent>(){
        @Override
        public void handle(MouseEvent event) {
            stage.setX(event.getScreenX()- xoffset);
            stage.setY(event.getScreenY()- yoffset);
        }

    });
    this.stage=stage;
    stage.show();

}

public static void main(String[] args) {
    launch(args);
}

}

```

LoginScreen.fxml

```

<?xml version="1.0" encoding="UTF-8"?>

<?import com.jfoenix.controls.JFXPasswordField?>
<?import com.jfoenix.controls.JFXTextField?>
<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import java.net.URL?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.image.Image?>
<?import javafx.scene.image.ImageView?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.layout.Pane?>
<?import javafx.scene.text.Font?>

<AnchorPane id="AnchorPane" prefHeight="600.0" prefWidth="810.0"
xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="login.LoginScreenController">
    <children>
        <Pane layoutX="-2.0" prefHeight="607.0" prefWidth="372.0" styleClass="login-sidebar">
            <children>

```

```

    <ImageView fitHeight="284.0" fitWidth="372.0" layoutY="-2.0" pickOnBounds="true"
preserveRatio="true">
    <image>
    <Image url="@../images/bank%20logo1.jpg" />
    </image>
</ImageView>
<Label layoutX="26.0" layoutY="304.0" prefHeight="69.0" prefWidth="320.0" text="Bank Of Spain"
textFill="#942121">
    <font>
    <Font name="Impact" size="56.0" />
    </font>
</Label>
<Label layoutX="111.0" layoutY="395.0" text="Client Software" textFill="#942121">
    <font>
    <Font name="Impact" size="24.0" />
    </font>
</Label>
<Label layoutX="123.0" layoutY="562.0" text="All Rights Reserved" textFill="#f2eded" />
</children>
<stylesheets>
    <URL value="@../design/design.css" />
    <URL value="@../design/design.css" />
</stylesheets>
</Pane>
<Pane fx:id="main_area" layoutX="370.0" prefHeight="600.0" prefWidth="450.0" styleClass="login-main"
stylesheets="@../design/design.css">
    <children>
    <Label layoutX="29.0" layoutY="20.0" text="Welcome">
    <font>
    <Font name="Impact" size="58.0" />
    </font>
    </Label>
    <Label layoutX="29.0" layoutY="102.0" text="login below to access your account">
    <font>
    <Font size="18.0" />
    </font>
    </Label>
    <JFXTextField fx:id="accountno" focusColor="#757575" labelFloat="true" layoutX="92.0"
layoutY="170.0" minHeight="30.0" minWidth="300.0" promptText="Account No">
    <font>
    <Font size="18.0" />
    </font>
    </JFXTextField>
    <JFXPasswordField fx:id="pin" focusColor="#747575" labelFloat="true" layoutX="92.0"
layoutY="246.0" minHeight="30.0" minWidth="300.0" promptText="PIN">
    <font>
    <Font size="18.0" />
    </font>
    </JFXPasswordField>

```

```

        <Button layoutX="250.0" layoutY="325.0" mnemonicParsing="false"
onMouseClicked="#forgotPassword" styleClass="login-forgot" stylesheets="@../design/design.css" text="Forgot
Password ?">
        <font>
        <Font name="System Bold" size="15.0" />
        </font></Button>
        <Button layoutX="120.0" layoutY="426.0" minHeight="40.0" minWidth="200.0"
mnemonicParsing="false" onMouseClicked="#loginAccount" prefWidth="205.0" styleClass="login-button"
stylesheets="@../design/design.css" text="Login">
        <font>
        <Font name="System Bold" size="16.0" />
        </font></Button>
        <Button layoutX="88.0" layoutY="524.0" minHeight="40.0" minWidth="240.0"
mnemonicParsing="false" onMouseClicked="#createAccount" prefHeight="40.0" prefWidth="288.0"
styleClass="login-button" stylesheets="@../design/design.css" text=" Create Account">
        <font>
        <Font name="System Bold" size="16.0" />
        </font></Button>
        <Label layoutX="208.0" layoutY="479.0" text="OR">
        <font>
        <Font size="18.0" />
        </font>
        </Label>
        <FontAwesomeIconView glyphName="CLOSE" layoutX="424.0" layoutY="24.0"
onMouseClicked="#closeApp" size="25" styleClass="close-button" />
        <FontAwesomeIconView fill="#5e5e5e" glyphName="USER" layoutX="67.0" layoutY="200.0"
size="20.0" />
        <FontAwesomeIconView fill="#6b6b6b" glyphName="EYE" layoutX="65.0" layoutY="274.0"
size="20" text="□" />
        <FontAwesomeIconView glyphName="USER" layoutX="176.0" layoutY="452.0" size="14.0"
styleClass="login-icon" text="□" />
        <FontAwesomeIconView glyphName="PENCIL" layoutX="156.0" layoutY="548.0" size="14.0" />
    </children>
</Pane>
</children>
</AnchorPane>

```

LoginScreenController.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package login;

import java.io.IOException;
import javafx.scene.input.MouseEvent;
import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;

```

```

import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ResourceBundle;
import javafx.application.Platform;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.Node;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.control.Alert;
import javafx.scene.control.PasswordField;
import javafx.scene.control.TextField;
import javafx.scene.layout.Pane;
import javafx.stage.Stage;
import javafx.stage.StageStyle;
import javax.swing.JOptionPane;

```

```

/**
 *
 * @author admin
 */

```

```

public class LoginScreenController implements Initializable {

```

```

    public static Stage stage = null;
    public static String acc;

```

```

    @FXML
    private Pane main_area;

```

```

    @FXML
    private TextField accountno;

```

```

    @FXML
    private PasswordField pin;

```

```

    @FXML
    private void closeApp(MouseEvent event) {
        Platform.exit();
        System.exit(0);
    }

```

```

    @FXML
    private void createAccount(MouseEvent event) throws IOException {

```

```

        Parent fxml= FXMLLoader.load(getClass().getResource("/createaccount/CreateAccount.fxml"));
        main_area.getChildren().removeAll();
        main_area.getChildren().addAll(fxml);
    }

```

```

@FXML
private void forgotPassword(MouseEvent event) throws IOException {

    Parent fxml= FXMLLoader.load(getClass().getResource("/forgotpass/ForgotPassword.fxml"));
    main_area.getChildren().removeAll();
    main_area.getChildren().addAll(fxml);
}

public void loginAccount(MouseEvent event){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=? and PIN=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, accountno.getText());
        ps.setString(2, pin.getText());
        acc = accountno.getText();
        //JOptionPane.showMessageDialog(null, acc);
        rs = ps.executeQuery();
        if(rs.next()){
            ((Node)event.getSource()).getScene().getWindow().hide();
            Parent root= FXMLLoader.load(getClass().getResource("/dashboard/Dashboard.fxml"));
            Scene scene =new Scene(root);
            scene.getStylesheets().add(getClass().getResource("/design/design.css").toExternalForm());
            Stage stage = new Stage();
            stage.initStyle(StageStyle.UNDECORATED);
            stage.setScene(scene);
            stage.show();
            this.stage = stage;

        }
        else
        {
            Alert a = new Alert(Alert.AlertType.ERROR);
            a.setTitle("Error");
            a.setHeaderText("Error in login");
            a.setContentText("Your account number or pin is wrong. Enter again..!!!" );
            a.showAndWait();

        }

    } catch(Exception e){
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
    }
}

```

```

a.setHeaderText("Error in login .");
a.setContentText("There is some error. PLEASE TRY AGAIN..!!!");
a.showAndWait();

```

```

}
}

```

```

@Override
public void initialize(URL url, ResourceBundle rb) {
    // TODO
}

```

```

}

```

Create account window **CreateAccount.fxml**

```

<?xml version="1.0" encoding="UTF-8"?>

<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.ComboBox?>
<?import javafx.scene.control.DatePicker?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.control.TextField?>
<?import javafx.scene.image.Image?>
<?import javafx.scene.image.ImageView?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.text.Font?>

<ScrollPane prefHeight="600.0" prefWidth="450.0" xmlns="http://javafx.com/javafx/8.0.171"
xmlns:fx="http://javafx.com/fxml/1" fx:controller="createaccount.CreateAccountController">
    <content>
        <AnchorPane id="AnchorPane" prefHeight="600.0" prefWidth="450.0">
            <children>
                <FontAwesomeIconView glyphName="ARROW_LEFT" layoutX="14.0" layoutY="25.0"
onMouseClicked="#backToLogin" size="20" />
                <FontAwesomeIconView glyphName="CLOSE" layoutX="404.0" layoutY="24.0"
onMouseClicked="#closeApp" size="20" wrappingWidth="10.0" />
                <Label layoutX="96.0" layoutY="37.0" text="Account Registration">
                    <font>
                        <Font name="Impact" size="30.0" />
                    </font>
                </Label>
                <Label layoutX="96.0" layoutY="75.0" text="Fill the form carefully to create an account">
                    <font>
                        <Font size="14.0" />
                    </font>
                </Label>
            </children>
        </AnchorPane>
    </content>
</ScrollPane>

```

```

<Label layoutX="102.0" layoutY="119.0" text="Personal Information" textFill="#7c7c7c">
  <font>
    <Font name="Impact" size="24.0" />
  </font>
</Label>
<TextField fx:id="name" layoutX="54.0" layoutY="167.0" prefHeight="38.0" prefWidth="340.0"
promptText="Full Name" styleClass="field-decoration" stylesheets="@../design/design.css">
  <font>
    <Font size="18.0" />
  </font>
</TextField>
<TextField fx:id="idcardno" layoutX="54.0" layoutY="222.0" prefHeight="38.0" prefWidth="340.0"
promptText="ID Number" styleClass="field-decoration" stylesheets="@../design/design.css">
  <font>
    <Font size="18.0" />
  </font>
</TextField>
<TextField fx:id="mobilenno" layoutX="54.0" layoutY="277.0" prefHeight="38.0" prefWidth="340.0"
promptText="Mobile number" styleClass="field-decoration" stylesheets="@../design/design.css">
  <font>
    <Font size="18.0" />
  </font>
</TextField>
<ComboBox fx:id="gender" layoutX="54.0" layoutY="333.0" prefHeight="38.0" prefWidth="340.0"
promptText="Gender" styleClass="field-decoration" stylesheets="@../design/design.css" />
<ComboBox fx:id="maritalstatus" layoutX="54.0" layoutY="382.0" prefHeight="38.0"
prefWidth="340.0" promptText="marital Status" styleClass="field-decoration"
stylesheets="@../design/design.css" />
<ComboBox fx:id="religion" layoutX="54.0" layoutY="429.0" prefHeight="38.0" prefWidth="340.0"
promptText="Religion" styleClass="field-decoration" stylesheets="@../design/design.css" />
<DatePicker fx:id="dob" layoutX="55.0" layoutY="481.0" prefHeight="38.0" prefWidth="340.0"
promptText="Date of Birth" />
<TextField fx:id="city" layoutX="55.0" layoutY="535.0" prefHeight="38.0" prefWidth="340.0"
promptText="City" styleClass="field-decoration" stylesheets="@../design/design.css">
  <font>
    <Font size="18.0" />
  </font>
</TextField>
<TextField fx:id="address" layoutX="55.0" layoutY="588.0" prefHeight="38.0" prefWidth="340.0"
promptText="Address" styleClass="field-decoration" stylesheets="@../design/design.css">
  <font>
    <Font size="18.0" />
  </font>
</TextField>
<Label layoutX="105.0" layoutY="642.0" text="Account Information" textFill="#7c7c7c">
  <font>
    <Font name="Impact" size="24.0" />
  </font>
</Label>
<TextField fx:id="pin" layoutX="55.0" layoutY="829.0" prefHeight="38.0" prefWidth="340.0"
promptText="PIN" styleClass="field-decoration" stylesheets="@../design/design.css">

```



```

        <font>
        <Font size="18.0" />
    </font>
</TextField>
    <TextField fx:id="accountno" layoutX="55.0" layoutY="686.0" prefHeight="38.0" prefWidth="340.0"
promptText="Account No" styleClass="field-decoration" stylesheets="@../design/design.css">
    <font>
        <Font size="18.0" />
    </font>
</TextField>
    <ComboBox fx:id="accounttype" layoutX="55.0" layoutY="782.0" prefHeight="38.0"
prefWidth="340.0" promptText="Account Type" styleClass="field-decoration"
stylesheets="@../design/design.css" />
    <ComboBox fx:id="questions" layoutX="56.0" layoutY="878.0" prefHeight="38.0" prefWidth="340.0"
promptText="Security Question" styleClass="field-decoration" stylesheets="@../design/design.css" />
    <TextField fx:id="answer" layoutX="56.0" layoutY="930.0" prefHeight="38.0" prefWidth="340.0"
promptText="Answer" styleClass="field-decoration" stylesheets="@../design/design.css">
    <font>
        <Font size="18.0" />
    </font>
</TextField>
    <TextField fx:id="balance" layoutX="54.0" layoutY="733.0" prefHeight="38.0" prefWidth="340.0"
promptText="Balance" styleClass="field-decoration" stylesheets="@../design/design.css">
    <font>
        <Font size="18.0" />
    </font>
</TextField>
    <ImageView fx:id="pic" fitHeight="150.0" fitWidth="150.0" layoutX="56.0" layoutY="992.0"
pickOnBounds="true" preserveRatio="true">
    <image>
        <Image url="@../images/default_pic.jpg" />
    </image>
</ImageView>
    <Label layoutX="226.0" layoutY="1012.0" text="Profile Picture">
    <font>
        <Font size="24.0" />
    </font>
</Label>
    <Button fx:id="browse_pic" layoutX="223.0" layoutY="1067.0" mnemonicParsing="false"
onMouseClicked="#setUpPic" prefHeight="33.0" prefWidth="153.0" styleClass="login-button"
stylesheets="@../design/design.css" text="Browse Picture">
    <graphic>
        <FontAwesomeIconView glyphName="UPLOAD" styleClass="login-icon" />
    </graphic>
</Button>
    <Button layoutX="92.0" layoutY="1191.0" mnemonicParsing="false" onMouseClicked="#newAccount"
prefHeight="39.0" prefWidth="265.0" styleClass="login-button" stylesheets="@../design/design.css"
text="Create Account">
    <font>
        <Font size="18.0" />
    </font>

```

```

        </Button>
    </children>
</AnchorPane>
</content>
</ScrollPane>

```

CreateAccountController.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package createaccount;

import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStream;
import static java.lang.Math.random;
import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.util.Random;
import java.util.ResourceBundle;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
import javafx.application.Platform;
import javafx.stage.FileChooser.ExtensionFilter;
import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.control.Alert;
import javafx.scene.control.Alert.AlertType;
import javafx.scene.control.ComboBox;
import javafx.scene.control.DatePicker;
import javafx.scene.control.TextField;
import javafx.scene.image.Image;
import javafx.scene.image.ImageView;
import javafx.scene.input.MouseEvent;
import javafx.stage.FileChooser;
import login.Banking;
/**
 * FXML Controller class
 *
 * @author admin
 */

```

```

*/
public class CreateAccountController implements Initializable {

    private FileChooser filechooser= new FileChooser();
    private File file;
    private FileInputStream fis;
    @FXML
    private ImageView pic;

    @FXML
    private TextField name;

    @FXML
    private TextField idcardno;

    @FXML
    private TextField mobilenno;

    @FXML
    private TextField city;

    @FXML
    private TextField address;

    @FXML
    private TextField accountno;

    @FXML
    private TextField pin;

    @FXML
    private TextField balance;

    @FXML
    private TextField answer;

    @FXML
    private DatePicker dob;

    @FXML
    private ComboBox<String> gender;

    @FXML
    private ComboBox<String> martialstatus;

    @FXML
    private ComboBox<String> religion;

    @FXML
    private ComboBox<String> accounttype;

```

@FXML

```
private ComboBox<String> questions;
```

```
ObservableList<String> list = FXCollections.observableArrayList("Male","Female","Other");
```

```
ObservableList<String> list1 = FXCollections.observableArrayList("Single","Married");
```

```
ObservableList<String> list2 = FXCollections.observableArrayList("Islam","Christian","Hindu","Others");
```

```
ObservableList<String> list3 = FXCollections.observableArrayList("Saving","Current");
```

```
ObservableList<String> list4 = FXCollections.observableArrayList("What is your pet name?","What is your  
childhood town?","What is your nick name?");
```

```
public void backToLogin(MouseEvent event) throws IOException{
```

```
Banking.stage.getScene().setRoot(FXMLLoader.load(getClass().getResource("/login/LoginScreen.fxml")));
```

```
}
```

```
public void closeApp(MouseEvent event){
```

```
Platform.exit();
```

```
System.exit(0);
```

```
}
```

```
public void setUpPic(MouseEvent event){
```

```
filechooser.getExtensionFilters().add(new ExtensionFilter("Images Files","*.png","*.jpg"));
```

```
file = filechooser.showOpenDialog(null);
```

```
if(file!= null){
```

```
Image img = new Image(file.toURI().toString(), 150, 150 , true, true);
```

```
pic.setImage(img);
```

```
pic.setPreserveRatio(true);
```

```
}
```

```
}
```

```
public boolean validateName(){
```

```
Pattern p = Pattern.compile("[a-zA-Z ]+");
```

```
Matcher m = p.matcher(name.getText());
```

```
if(m.find() && m.group().equals(name.getText())){
```

```
return true;
```

```
}
```

```
else{
```

```
Alert a = new Alert(AlertType.ERROR);
```

```
a.setTitle("Wrong Name");
```

```
a.setHeaderText(" Your Name is wrong .");
```

```
a.setContentText("Please enter characters only in name . PLEASE TRY AGAIN..!!!");
```

```
a.showAndWait();
```

```
return false;
```

```
}
```

```
}
```

```
public boolean validateMobileNo(){
```

```
Pattern p = Pattern.compile("[0-9]+");
```

```
Matcher m = p.matcher(mobileno.getText());
```

```
if(m.find() && m.group().equals(mobileno.getText())){
```

```

        return true;
    }
    else{
        Alert a = new Alert(AlertType.ERROR);
        a.setTitle("Wrong mobileno");
        a.setHeaderText(" Your mobileno is wrong .");
        a.setContentText("Please enter numbers only in mobileno . PLEASE TRY AGAIN..!!!");
        a.showAndWait();
        return false;
    }
}

public boolean validateIdCardNo(){
    Pattern p = Pattern.compile("[0-9]+");
    Matcher m = p.matcher(idcardno.getText());
    if(m.find() && m.group().equals(idcardno.getText())){
        return true;
    }
    else{
        Alert a = new Alert(AlertType.ERROR);
        a.setTitle("Wrong Id Card No ");
        a.setHeaderText(" Your Id Card No is wrong .");
        a.setContentText("Please enter numbers only in idcardno . PLEASE TRY AGAIN..!!!");
        a.showAndWait();
        return false;
    }
}

public boolean validateBalance(){
    Pattern p = Pattern.compile("[0-9]+");
    Matcher m = p.matcher(balance.getText());
    if(m.find() && m.group().equals(balance.getText())){
        return true;
    }
    else{
        Alert a = new Alert(AlertType.ERROR);
        a.setTitle("Invalid Balance ");
        a.setHeaderText(" Your Balance is wrong .");
        a.setContentText("Please enter numbers only in Balance . PLEASE TRY AGAIN..!!!");
        a.showAndWait();
        return false;
    }
}

public void clearAllFields(){
    name.clear();
    idcardno.clear();
    mobileno.clear();
    gender.getSelectionModel().clearSelection();
    religion.getSelectionModel().clearSelection();
    martialstatus.getSelectionModel().clearSelection();
}

```

```

        dob.getEditor().clear();
        city.clear();
        address.clear();
        pin.clear();
        accounttype.getSelectionModel().clearSelection();
        balance.clear();
        questions.getSelectionModel().clearSelection();
        answer.clear();
        Image img = new Image("/images/default_pic.jpg");
        pic.setImage(img);
        accountno.setText(String.valueOf(generateAccountNo()));
    }

    public int generateAccountNo(){

        Random rand = new Random();
        int num = rand.nextInt(899999) + 100000;
        return num;
    }

    public void newAccount(MouseEvent event){
        Connection con=null;
        PreparedStatement ps = null;

        try{
            Class.forName("com.mysql.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
            "");

            if(validateName() && validateMobileNo() && validateIdCardNo() && validateBalance() ){
                String sql ="INSERT INTO userdata (Name, ICN, MobileNo, Gender, Religion, MartialStatus,
                DOB, City, Address, AccountNo, PIN, AccountType, Balance, SecurityQuestion, Answer, ProfilePic)
                VALUES(?,?,?,?,?,?,?,?,?,?,?,?,?,?)";
                ps = con.prepareStatement(sql);
                ps.setString(1, name.getText());
                ps.setString(2, idcardno.getText());
                ps.setString(3, mobileno.getText());
                ps.setString(4, gender.getValue());
                ps.setString(5, religion.getValue());
                ps.setString(6, martialstatus.getValue());
                ps.setString(7, ((TextField)dob.getEditor()).getText());
                ps.setString(8, city.getText());
                ps.setString(9, address.getText());
                ps.setString(10, accountno.getText());
                ps.setString(11, pin.getText());
                ps.setString(12, accounttype.getValue());
                ps.setString(13, balance.getText());
                ps.setString(14, questions.getValue());
            }
        }
    }

```

```

ps.setString(15, answer.getText());
fis = new FileInputStream(file);
ps.setBinaryStream(16, (InputStream)fis, (int)file.length());

int i = ps.executeUpdate();
if(i>0){
    Alert a = new Alert(AlertType.INFORMATION);
    a.setTitle("Account Created");
    a.setHeaderText("Account Created Sucessfully.");
    a.setContentText("Your account is created sucessfully. You can now login with your account no and
pin !!!");
    a.showAndWait();
    clearAllFields();
}
else
{
    Alert a = new Alert(AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Account Not Created .");
    a.setContentText("Your account is not created. There is some error. PLEASE TRY AGAIN..!!!");
    a.showAndWait();
}
}

} catch(Exception e){
    Alert a = new Alert(AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in creating account");
    a.setContentText("Your account is not created. There is some technical issue..!!!" + e.getMessage());
    a.showAndWait();
}

}

@Override
public void initialize(URL url, ResourceBundle rb) {
    // TODO
    gender.setItems(list);
    martialstatus.setItems(list1);
    religion.setItems(list2);
    accounttype.setItems(list3);
    questions.setItems(list4);
    accountno.setText(String.valueOf(generateAccountNo()));
    accountno.setEditable(false);

}

}

```

Forgot password window**ForgotPassword.fxml**

```

<?xml version="1.0" encoding="UTF-8"?>

<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.ComboBox?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.control.TextField?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.text.Font?>

<ScrollPane xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="forgotpass.ForgotPasswordController">
    <content>
        <AnchorPane id="AnchorPane" prefHeight="600.0" prefWidth="450.0">
            <children>
                <FontAwesomeIconView glyphName="ARROW_LEFT" layoutX="24.0" layoutY="35.0"
onMouseClicked="#backToLogin" size="20" />
                <FontAwesomeIconView glyphName="CLOSE" layoutX="399.0" layoutY="36.0"
onMouseClicked="#closeApp" size="20" text="□" wrappingWidth="10.0" />
                <Label layoutX="92.0" layoutY="47.0" text="Forgot Password ">
                    <font>
                        <Font name="Impact" size="36.0" />
                    </font>
                </Label>
                <Label layoutX="92.0" layoutY="100.0" text="Recover your password here">
                    <font>
                        <Font size="18.0" />
                    </font>
                </Label>
                <TextField fx:id="accountno" layoutX="64.0" layoutY="177.0" prefHeight="38.0" prefWidth="340.0"
promptText="Your Account No" styleClass="field-decoration" stylesheets="@../design/design.css">
                    <font>
                        <Font size="18.0" />
                    </font>
                </TextField>
                <TextField fx:id="ans" layoutX="64.0" layoutY="287.0" prefHeight="38.0" prefWidth="340.0"
promptText="Answer" styleClass="field-decoration" stylesheets="@../design/design.css">
                    <font>
                        <Font size="18.0" />
                    </font>
                </TextField>
                <ComboBox fx:id="sq" layoutX="64.0" layoutY="232.0" prefHeight="38.0" prefWidth="340.0"
promptText="Security Question" styleClass="field-decoration" stylesheets="@../design/design.css" />
                <Button layoutX="98.0" layoutY="376.0" mnemonicParsing="false"
onMouseClicked="#recoverPassword" prefHeight="39.0" prefWidth="265.0" styleClass="login-button"
stylesheets="@../design/design.css" text="Recover Password">
                    <font>

```



```

        <Font name="System Bold" size="18.0" />
    </font>
</Button>
</children>
</AnchorPane>
</content>
</ScrollPane>

```

ForgotPasswordController.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package forgotpass;

import java.io.IOException;
import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

import java.util.ResourceBundle;
import javafx.application.Platform;
import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.control.Alert;
import javafx.scene.control.ComboBox;
import javafx.scene.control.TextField;
import javafx.scene.input.MouseEvent;
import login.Banking;

/**
 * FXML Controller class
 *
 * @author admin
 */
public class ForgotPasswordController implements Initializable {
    @FXML
    private TextField accountno;

    @FXML

```

```

private ComboBox<String> sq;

@FXML
private TextField ans;

ObservableList<String> list = FXCollections.observableArrayList("What is your pet name?", "What is your
childhood town?", "What is your nick name?");

public void backToLogin(MouseEvent event) throws IOException{
    Banking.stage.getScene().setRoot(FXMLLoader.load(getClass().getResource("/login/LoginScreen.fxml")));
}
public void closeApp(MouseEvent event){
    Platform.exit();
    System.exit(0);
}

public void recoverPassword(MouseEvent event){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=? and SecurityQuestion=? and
Answer=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, accountno.getText());
        ps.setString(2, sq.getValue());
        ps.setString(3, ans.getText());

        rs = ps.executeQuery();
        if(rs.next()){
            Alert a = new Alert(Alert.AlertType.INFORMATION);
            a.setTitle("Password Recovery");
            a.setHeaderText("Below is your password. ");
            a.setContentText("Account No: "+ rs.getString("AccountNo")+"\nPIN: "+rs.getString("PIN"));
            a.showAndWait();
        }
        else
        {
            Alert a = new Alert(Alert.AlertType.ERROR);
            a.setTitle("Error");
            a.setHeaderText("Wrong Data");
            a.setContentText(" Enter again..!!!" );
            a.showAndWait();
        }
    }
}

```

```

    } catch (Exception e) {
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in recovery .");
        a.setContentText("There is some error. PLEASE TRY AGAIN..!!!");
        a.showAndWait();
    }
}

@Override
public void initialize(URL url, ResourceBundle rb) {
    sq.setItems(list);
}
}

```

User dashboard

Dashboard.fxml

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import javafx.geometry.Insets?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.layout.HBox?>
<?import javafx.scene.layout.Pane?>
<?import javafx.scene.layout.VBox?>
<?import javafx.scene.shape.Circle?>
<?import javafx.scene.text.Font?>
<?import javafx.scene.text.Text?>

```

```

<AnchorPane id="AnchorPane" onMouseDragged="#drag" onMousePressed="#click" prefHeight="600.0"
prefWidth="1000.0" xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="dashboard.DashboardController">

```

```

    <children>
        <HBox prefHeight="34.0" prefWidth="1000.0" styleClass="dashboard-top"
stylesheets="@../design/design.css">
            <children>
                <FontAwesomeIconView fill="WHITE" glyphName="BANK" size="16">
                    <HBox.margin>
                        <Insets left="8.0" top="8.0" />
                    </HBox.margin>
                </FontAwesomeIconView>
                <Label text="Bank Of Spain Limited - Client Software" textFill="WHITE">
                    <font>
                        <Font size="17.0" />
                    </font>
                    <HBox.margin>

```

```

        <Insets left="8.0" top="4.0" />
    </HBox.margin>
</Label>
    <FontAwesomeIconView fx:id="ico" fill="WHITE" glyphName="MINUS"
onMouseClicked="#minimizeApp" size="22">
    <HBox.margin>
        <Insets bottom="5.0" left="600.0" right="8.0" top="3.0" />
    </HBox.margin>
</FontAwesomeIconView>
    <FontAwesomeIconView fill="WHITE" glyphName="CLOSE" onMouseClicked="#closeApp"
size="25" styleClass="close-button">
    <HBox.margin>
        <Insets left="5.0" right="10.0" top="5.0" />
    </HBox.margin>
</FontAwesomeIconView>
</children>
</HBox>
    <Pane layoutY="34.0" prefHeight="567.0" prefWidth="240.0" styleClass="dashboard-sidebar"
stylesheets="@../design/design.css">
    <children>
        <VBox prefHeight="145.0" prefWidth="240.0" styleClass="dashboard-profilepic"
stylesheets="@../design/design.css">
        <children>
            <Circle fx:id="profilepic" fill="DODGERBLUE" radius="48.0" stroke="BLACK"
strokeType="INSIDE">
                <VBox.margin>
                    <Insets left="65.0" top="10.0" />
                </VBox.margin>
            </Circle>
            <Text fx:id="name" fill="WHITE" strokeType="OUTSIDE" strokeWidth="0.0"
styleClass="dashboard-profilepic" text="Your Name Here" textAlignment="CENTER"
wrappingWidth="239.1708984375">
                <font>
                    <Font name="System Bold" size="18.0" />
                </font>
                <VBox.margin>
                    <Insets top="10.0" />
                </VBox.margin>
            </Text>
        </children>
    </VBox>
    <Button layoutY="164.0" mnemonicParsing="false" onMouseClicked="#accountInformation"
prefHeight="50.0" prefWidth="240.0" styleClass="dashboard-menu" text=" Account Information"
textFill="WHITE">
        <font>
            <Font size="16.0" />
        </font>
        <graphic>
            <FontAwesomeIconView glyphName="BANK" size="14" styleClass="dashboard-menu-icons" />
        </graphic>
    </Button>

```

```

<Button layoutY="214.0" mnemonicParsing="false" onClicked="#withdraw" prefHeight="50.0"
prefWidth="240.0" styleClass="dashboard-menu" text=" Withdraw" textFill="WHITE">
    <font>
        <Font size="16.0" />
    </font>
    <graphic>
        <FontAwesomeIconView glyphName="ARROW_DOWN" size="14" styleClass="dashboard-menu-
icons" />
    </graphic>
</Button>
<Button layoutY="259.0" mnemonicParsing="false" onClicked="#deposit" prefHeight="50.0"
prefWidth="240.0" styleClass="dashboard-menu" text=" Deposit" textFill="WHITE">
    <font>
        <Font size="16.0" />
    </font>
    <graphic>
        <FontAwesomeIconView glyphName="PLUS" size="14" styleClass="dashboard-menu-icons"
text="+" />
    </graphic>
</Button>
<Button layoutY="301.0" mnemonicParsing="false" onClicked="#transactionHistory"
prefHeight="50.0" prefWidth="240.0" styleClass="dashboard-menu" text=" Transaction Hystory"
textFill="WHITE">
    <font>
        <Font size="16.0" />
    </font>
    <graphic>
        <FontAwesomeIconView glyphName="HISTORY" size="14" styleClass="dashboard-menu-icons" />
    </graphic>
</Button>
<Button layoutY="351.0" mnemonicParsing="false" onClicked="#transferAmount"
prefHeight="50.0" prefWidth="240.0" styleClass="dashboard-menu" text=" Transfer money"
textFill="WHITE">
    <font>
        <Font size="16.0" />
    </font>
    <graphic>
        <FontAwesomeIconView glyphName="MONEY" size="14" styleClass="dashboard-menu-icons" />
    </graphic>
</Button>
<Button layoutY="401.0" mnemonicParsing="false" onClicked="#pinChange" prefHeight="50.0"
prefWidth="240.0" styleClass="dashboard-menu" text=" Change PIN" textFill="WHITE">
    <font>
        <Font size="16.0" />
    </font>
    <graphic>
        <FontAwesomeIconView glyphName="LOCK" size="14" styleClass="dashboard-menu-icons" />
    </graphic>
</Button>
</children>
</Pane>

```

```

<Pane layoutX="240.0" layoutY="34.0" prefHeight="60.0" prefWidth="760.0">
  <children>
    <Label layoutX="35.0" layoutY="14.0" text="User Dashboard" textFill="#797979">
      <font>
        <Font name="Calibri Bold" size="26.0" />
      </font>
    </Label>
    <FontAwesomeIconView glyphName="HOME" layoutX="619.0" layoutY="38.0"
onMouseClicked="#mainScreen" size="25" style="-fx-cursor: hand;" />
    <FontAwesomeIconView glyphName="SIGN_OUT" layoutX="653.0" layoutY="38.0"
onMouseClicked="#logout" size="25" style="-fx-cursor: hand;" />
  </children>
</Pane>
<Pane fx:id="dashboard_main" layoutX="240.0" layoutY="94.0" prefHeight="506.0" prefWidth="760.0"
style="-fx-background-color: white;" />
</children>
</AnchorPane>

```

DashboardController.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package dashboard;

import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView;
import java.awt.Color;
import java.io.File;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ResourceBundle;
import java.util.logging.Level;
import java.util.logging.Logger;
import javafx.application.Platform;
import javafx.event.EventHandler;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.Node;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.control.Alert;
import javafx.scene.image.Image;

```

```

import javafx.scene.input.MouseEvent;
import javafx.scene.layout.Pane;
import javafx.scene.paint.ImagePattern;
import javafx.scene.shape.Circle;
import javafx.scene.text.Text;
import javafx.stage.Stage;
import javafx.stage.StageStyle;
import javax.swing.JOptionPane;
import login.Banking;
import login.LoginScreenController;

/**
 * FXML Controller class
 *
 * @author admin
 */
public class DashboardController implements Initializable {

    private double xoffset = 0;
    private double yoffset = 0;

    @FXML
    private Pane dashboard_main;

    @FXML
    private Text name;

    @FXML
    private Circle profilepic;
    @FXML
    private FontAwesomeIconView ico;

    @FXML
    private void closeApp(MouseEvent event) {
        Platform.exit();
        System.exit(0);
    }

    @FXML
    private void minimizeApp(MouseEvent event) {
        Stage stage = (Stage) ico.getScene().getWindow();

        stage.setIconified(true);
    }

    public void setData(){
        Connection con=null;
        PreparedStatement ps = null;
        ResultSet rs = null;

```

```

try{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
    "");
    String sql = "SELECT * FROM userdata WHERE AccountNo=?";
    ps = con.prepareStatement(sql);
    ps.setString(1, LoginScreenController.acc);
    //JOptionPane.showMessageDialog(null, "Dashboard : "+ LoginScreenController.acc);

    rs = ps.executeQuery();
    if(rs.next()){

        name.setText(rs.getString("Name"));
        InputStream is = rs.getBinaryStream("ProfilePic");
        OutputStream os = new FileOutputStream(new File("pic.jpg"));
        byte[] content = new byte[1024];
        int size = 0;
        while((size = is.read(content)) != -1){
            os.write(content, 0, size);
        }
        os.close();
        is.close();
        Image img = new Image("file:pic.jpg",false);
        profilepic.setFill(new ImagePattern(img));

    }
    else
    { Alert a = new Alert(Alert.AlertType.ERROR);
      a.setTitle("Error");
      a.setHeaderText("Error in login");
      a.setContentText("Your account number or pin is wrong. Enter again..!!!" );
      a.showAndWait();

    }

} catch(Exception e){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in login .");
    a.setContentText("There is some error. PLEASE TRY AGAIN..!!!");
    a.showAndWait();

}

}
@FXML

```



```
public void click(MouseEvent event){
    xoffset=event.getSceneX();
    yoffset=event.getSceneY();
}
```

@FXML

```
public void drag(MouseEvent event){
    LoginScreenController.stage.setX(event.getScreenX()- xoffset);
    LoginScreenController.stage.setY(event.getScreenY()- yoffset);
}
```

@FXML

```
public void accountInformation(MouseEvent event) throws IOException{
    Parent fxml= FXMLLoader.load(getClass().getResource("/accountinfo/AccountInformation.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}
```

@FXML

```
public void withdraw(MouseEvent event) throws IOException{
    Parent fxml= FXMLLoader.load(getClass().getResource("/withdraw/WithdrawAmount.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}
```

@FXML

```
public void transactionHistory(MouseEvent event) throws IOException{
    Parent fxml= FXMLLoader.load(getClass().getResource("/transactionhistory/TransactionHistory.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}
```

@FXML

```
public void deposit(MouseEvent event) throws IOException{
    Parent fxml= FXMLLoader.load(getClass().getResource("/deposit/DepositAmount.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}
```

@FXML

```
public void pinChange(MouseEvent event) throws IOException{
    Parent fxml= FXMLLoader.load(getClass().getResource("/changepin/ChangePin.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}
```

@FXML

```
public void transferAmount(MouseEvent event) throws IOException{
    Parent fxml= FXMLLoader.load(getClass().getResource("/transferamount/TransferAmount.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}
```

```

}

@FXML
public void mainScreen() throws IOException {
    Parent fxml= FXMLLoader.load(getClass().getResource("MainScreen.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}

public void logout(MouseEvent event) throws IOException{
    ((Node)event.getSource()).getScene().getWindow().hide();
    Parent root= FXMLLoader.load(getClass().getResource("/login/LoginScreen.fxml"));
    Scene scene =new Scene(root);
    scene.getStylesheets().add(getClass().getResource("/design/design.css").toExternalForm());
    Stage stage = new Stage();
    stage.initStyle(StageStyle.UNDECORATED);
    stage.setScene(scene);
    stage.show();
    root.setOnMousePressed(new EventHandler<MouseEvent>(){
        @Override
        public void handle(MouseEvent event) {
            xoffset=event.getSceneX();
            yoffset=event.getSceneY();
        }
    });

    root.setOnMouseDragged(new EventHandler<MouseEvent>(){
        @Override
        public void handle(MouseEvent event) {
            stage.setX(event.getScreenX()- xoffset);
            stage.setY(event.getScreenY()- yoffset);
        }
    });
}

@Override
public void initialize(URL url, ResourceBundle rb) {
    // TODO
    setData();
    try {
        mainScreen();
    } catch (IOException ex) {
        Logger.getLogger(DashboardController.class.getName()).log(Level.SEVERE, null, ex);
    }
}

```

```

    }
}

```

Main screen

MainScreen.fxml

```

<?xml version="1.0" encoding="UTF-8"?>

<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.layout.Pane?>
<?import javafx.scene.text.Font?>

<ScrollPane xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="dashboard.MainScreenController">
    <content>
        <AnchorPane id="AnchorPane" prefHeight="506.0" prefWidth="760.0">
            <children>
                <Pane prefHeight="100.0" prefWidth="760.0" style="-fx-background-color: #33B9F9;">
                    <children>
                        <Label layoutX="14.0" layoutY="-2.0" prefHeight="74.0" prefWidth="101.0" text="Hi,"
textFill="WHITE">
                            <font>
                                <Font size="72.0" />
                            </font>
                        </Label>
                        <Label fx:id="name" layoutX="133.0" layoutY="2.0" prefHeight="105.0" prefWidth="406.0"
text="Your Name" textFill="WHITE">
                            <font>
                                <Font size="48.0" />
                            </font>
                        </Label>
                    </children>
                </Pane>
                <Label layoutX="41.0" layoutY="127.0" text="Welcome Back,">
                    <font>
                        <Font name="System Bold" size="30.0" />
                    </font>
                </Label>
                <Label fx:id="body" layoutX="96.0" layoutY="172.0" prefHeight="207.0" prefWidth="639.0"
text="Label">
                    <font>
                        <Font size="18.0" />
                    </font>
                </Label>
                <Pane layoutY="456.0" prefHeight="50.0" prefWidth="760.0">

```

```

    <children>
      <FontAwesomeIconView fill="#33b9f9" glyphName="HOME" layoutX="116.0" layoutY="34.0"
size="28" />
      <Label layoutX="152.0" layoutY="12.0" text="Bank Of Spain Limited, Madrid" textFill="#575757">
        <font>
          <Font size="16.0" />
        </font>
      </Label>
      <FontAwesomeIconView fill="#33b9f9" glyphName="PHONE" layoutX="413.0" layoutY="34.0"
size="25" />
      <Label layoutX="450.0" layoutY="12.0" text="+34 913 38 50 000 " textFill="#575757">
        <font>
          <Font size="16.0" />
        </font>
      </Label>
    </children>
  </Pane>
</children>
</AnchorPane>
</content>
</ScrollPane>

```

MainScreenController.java

```
package dashboard;
```

```

import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Alert;
import javafx.scene.control.Label;
import login.LoginScreenController;

```

```
public class MainScreenController implements Initializable {
```

```

    @FXML
    private Label name;

```

```

    @FXML
    private Label body;

```

```

public void setInfo(){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);

        rs = ps.executeQuery();
        if(rs.next()){
            name.setText(rs.getString("Name"));

        }
        else
        {
            Alert a = new Alert(Alert.AlertType.ERROR);
            a.setTitle("Error");
            a.setHeaderText("Error in login");
            a.setContentText("Your account number or pin is wrong. Enter again..!!!" );
            a.showAndWait();

        }

    } catch(Exception e){
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in login .");
        a.setContentText("There is some error. PLEASE TRY AGAIN..!!!");
        a.showAndWait();

    }
}

@Override
public void initialize(URL url, ResourceBundle rb) {
    body.setText("The Bank of Spain (Spanish: Banco de España) is the central bank of Spain.\n Established in
Madrid in 1782 by Charles III, today the bank is a member of\nthe European System of Central Banks and is also
Spain's national competent\n authority for banking supervision within the Single Supervisory Mechanism.");
    setInfo();
}

```

}

Account information window**AccountInformation.fxml**

```

<?xml version="1.0" encoding="UTF-8"?>

<?import javafx.geometry.Insets?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.layout.Pane?>
<?import javafx.scene.shape.Circle?>
<?import javafx.scene.text.Font?>
<?import javafx.scene.text.Text?>

<ScrollPane xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="accountinfo.AccountInformationController">
    <content>
        <AnchorPane id="AnchorPane" fx:id="dashboard_main" prefHeight="506.0" prefWidth="760.0">
            <children>
                <Pane layoutY="137.0" prefHeight="210.0" prefWidth="190.0" style="-fx-background-color: a6dbf4;">
                    <children>
                        <Label prefHeight="45.0" prefWidth="190.0" style="-fx-background-color: #4cbaf1;" text="Account
No" textFill="WHITE">
                            <font>
                                <Font name="Calibri" size="30.0" />
                            </font>
                            <padding>
                                <Insets left="22.0" />
                            </padding>
                        </Label>
                        <Circle fill="#a6dbf4" layoutX="95.0" layoutY="119.0" radius="60.0" stroke="#4cbaf1"
strokeType="INSIDE" strokeWidth="2.0" />
                        <Label layoutY="186.0" prefHeight="25.0" prefWidth="190.0" style="-fx-background-color:
#4cbaf1;" />
                        <Text fx:id="account_no" fill="WHITE" layoutX="49.0" layoutY="129.0" strokeType="OUTSIDE"
strokeWidth="0.0" text="000000">
                            <font>
                                <Font name="Impact" size="28.0" />
                            </font>
                        </Text>
                    </children>
                </Pane>
                <Pane layoutX="190.0" layoutY="137.0" prefHeight="210.0" prefWidth="190.0" style="-fx-background-
color: f7d9a9;">
                    <children>
                        <Label prefHeight="45.0" prefWidth="190.0" style="-fx-background-color: #ffc669;" text="Gender"
textFill="WHITE">
                            <font>

```

```

        <Font name="Calibri" size="30.0" />
    </font>
    <padding>
        <Insets left="45.0" />
    </padding>
    <opaqueInsets>
        <Insets />
    </opaqueInsets>
</Label>
<Circle fill="#f7d9a9" layoutX="95.0" layoutY="119.0" radius="60.0" stroke="#ffc669"
strokeType="INSIDE" strokeWidth="2.0" />
<Label layoutY="186.0" prefHeight="25.0" prefWidth="190.0" style="-fx-background-color:
#ffc669;" />
<Text fx:id="sex" fill="WHITE" layoutX="42.0" layoutY="130.0" strokeType="OUTSIDE"
strokeWidth="0.0" text="Male" textAlignment="CENTER" wrappingWidth="105.1640625">
    <font>
        <Font name="Impact" size="28.0" />
    </font>
</Text>
</children>
</Pane>
<Pane layoutX="380.0" layoutY="137.0" prefHeight="210.0" prefWidth="190.0" style="-fx-background-
color: #f1bdbb;">
    <children>
        <Label prefHeight="45.0" prefWidth="190.0" style="-fx-background-color: #f56d6d;" text="Account
Type" textFill="WHITE">
            <font>
                <Font name="Calibri" size="30.0" />
            </font>
            <padding>
                <Insets left="14.0" />
            </padding>
        </Label>
        <Circle fill="#f1bdbb" layoutX="95.0" layoutY="119.0" radius="60.0" stroke="#f56d6d"
strokeType="INSIDE" strokeWidth="2.0" />
        <Label layoutY="186.0" prefHeight="25.0" prefWidth="190.0" style="-fx-background-color:
#f56d6d;" />
        <Text fx:id="account_type" fill="WHITE" layoutX="50.0" layoutY="129.0"
strokeType="OUTSIDE" strokeWidth="0.0" text="Current" textAlignment="CENTER">
            <font>
                <Font name="Impact" size="28.0" />
            </font>
        </Text>
    </children>
</Pane>
<Pane layoutX="570.0" layoutY="137.0" prefHeight="210.0" prefWidth="190.0" style="-fx-background-
color: #7fcbcf;">
    <children>
        <Label prefHeight="45.0" prefWidth="190.0" style="-fx-background-color: #3babb0;"
text="Religion" textFill="WHITE">
            <font>

```

```

        <Font name="Calibri" size="30.0" />
    </font>
    <padding>
        <Insets left="50.0" />
    </padding>
</Label>
<Circle fill="#7fcbbf" layoutX="95.0" layoutY="119.0" radius="60.0" stroke="#3babb0"
strokeType="INSIDE" strokeWidth="2.0" />
<Label layoutY="186.0" prefHeight="25.0" prefWidth="190.0" style="-fx-background-color:
#3babb0;" />
<Text fx:id="religion" fill="WHITE" layoutX="50.0" layoutY="130.0" strokeType="OUTSIDE"
strokeWidth="0.0" text="Hindu" textAlignment="CENTER" wrappingWidth="90.07030129432678">
    <font>
        <Font name="Impact" size="28.0" />
    </font>
</Text>
</children>
</Pane>
<Pane prefHeight="100.0" prefWidth="760.0" style="-fx-background-color: #33B9F9;">
    <children>
        <Label layoutX="213.0" layoutY="-4.0" prefHeight="105.0" prefWidth="41.0" text="\$"
textFill="WHITE">
            <font>
                <Font size="64.0" />
            </font>
        </Label>
        <Label fx:id="balance" layoutX="254.0" layoutY="1.0" prefHeight="105.0" prefWidth="230.0"
text="000000" textFill="WHITE">
            <font>
                <Font size="48.0" />
            </font>
        </Label>
        <Button layoutX="579.0" layoutY="14.0" mnemonicParsing="false" onMouseClicked="#deposit"
prefHeight="31.0" prefWidth="146.0" styleClass="dashboard-btns" stylesheets="@../design/design.css"
text="Deposit">
            <font>
                <Font name="System Bold" size="15.0" />
            </font>
        </Button>
        <Button layoutX="579.0" layoutY="54.0" mnemonicParsing="false" onMouseClicked="#withdraw"
prefHeight="31.0" prefWidth="147.0" styleClass="dashboard-btns" stylesheets="@../design/design.css"
text="Withdraw">
            <font>
                <Font name="System Bold" size="15.0" />
            </font>
        </Button>
        <Label layoutX="46.0" layoutY="24.0" text="Balance:" textFill="WHITE">
            <font>
                <Font name="Impact" size="42.0" />
            </font>
        </Label>
    </children>
</Pane>

```



```

        </children>
    </Pane>
</children>
</AnchorPane>
</content>
</ScrollPane>

```

AccountInformationController.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package accountinfo;

import java.io.IOException;
import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.Parent;
import javafx.scene.control.Alert;
import javafx.scene.control.Label;
import javafx.scene.input.MouseEvent;
import javafx.scene.layout.Pane;
import javafx.scene.text.Text;
import login.LoginScreenController;

/**
 * FXML Controller class
 *
 * @author admin
 */
public class AccountInformationController implements Initializable {

    @FXML
    private Text account_no;

    @FXML
    private Text sex;

    @FXML
    private Text account_type;

    @FXML

```

```

private Text religion;

@FXML
private Label balance;

@FXML
private Pane dashboard_main;

public void setInfo(){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);

        rs = ps.executeQuery();
        if(rs.next()){
            balance.setText(rs.getString("Balance"));
            account_no.setText(rs.getString("AccountNo"));
            sex.setText(rs.getString("Gender"));
            account_type.setText(rs.getString("AccountType"));
            religion.setText(rs.getString("Religion"));

        }
        else
        {
            Alert a = new Alert(Alert.AlertType.ERROR);
            a.setTitle("Error");
            a.setHeaderText("Error in login");
            a.setContentText("Your account number or pin is wrong. Enter again..!!!" );
            a.showAndWait();

        }

    }catch(Exception e){
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in login .");
        a.setContentText("There is some error. PLEASE TRY AGAIN..!!!");
        a.showAndWait();
    }
}

```

```

    }
}

```

@FXML

```

public void withdraw(MouseEvent event) throws IOException{
    Parent fxml= FXMLLoader.load(getClass().getResource("/withdraw/WithdrawAmount.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}

```

@FXML

```

public void deposit(MouseEvent event) throws IOException{
    Parent fxml= FXMLLoader.load(getClass().getResource("/deposit/DepositAmount.fxml"));
    dashboard_main.getChildren().removeAll();
    dashboard_main.getChildren().addAll(fxml);
}

```

@Override

```

public void initialize(URL url, ResourceBundle rb) {
    setInfo();
} }

```

Withdraw money window

WithdrawAmount.fxml

```
<?xml version="1.0" encoding="UTF-8"?>
```

```

<?import com.jfoenix.controls.JFXPasswordField?>
<?import com.jfoenix.controls.JFXTextField?>
<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.layout.Pane?>
<?import javafx.scene.text.Font?>

```

```

<ScrollPane xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="withdraw.WithdrawAmountController">

```

```
    <content>
```

```
        <AnchorPane id="AnchorPane" prefHeight="506.0" prefWidth="760.0">
```

```
            <children>
```

```
                <Pane layoutX="167.0" prefHeight="506.0" prefWidth="400.0">
```

```
                    <children>
```

```
                        <Label layoutX="63.0" layoutY="35.0" text="Withdraw Amount">
```

```
                            <font>
```

```
                                <Font name="Impact" size="36.0" />
```

```
                            </font>
```

```
                        </Label>
```

```
                        <Label layoutX="63.0" layoutY="119.0" text="Your Account No:">
```

```
                            <font>
```

```
                                <Font size="18.0" />
```

```

        </font>
    </Label>
    <Label layoutX="63.0" layoutY="185.0" text="Current Balance:">
        <font>
            <Font size="18.0" />
        </font>
    </Label>
    <Label fx:id="account_no" layoutX="230.0" layoutY="106.0" prefHeight="53.0" prefWidth="140.0"
text="000000">
        <font>
            <Font size="30.0" />
        </font>
    </Label>
    <Label fx:id="balance" layoutX="251.0" layoutY="172.0" prefHeight="53.0" prefWidth="129.0"
text="1111">
        <font>
            <Font size="30.0" />
        </font>
    </Label>
    <Label layoutX="229.0" layoutY="176.0" text="\$">
        <font>
            <Font size="30.0" />
        </font>
    </Label>
    <JFXTextField fx:id="amt_field" focusColor="#007ff5" layoutX="63.0" layoutY="261.0"
prefHeight="39.0" prefWidth="265.0" promptText="Amount" unFocusColor="#007ff5">
        <font>
            <Font size="18.0" />
        </font>
    </JFXTextField>
    <JFXPasswordField fx:id="pin_field" focusColor="#007ff5" layoutX="63.0" layoutY="331.0"
prefHeight="39.0" prefWidth="265.0" promptText="Enter Account PIN" unFocusColor="#007ff5">
        <font>
            <Font size="18.0" />
        </font>
    </JFXPasswordField>
    <Button layoutX="92.0" layoutY="423.0" mnemonicParsing="false"
onMouseClicked="#withdrawButton" prefHeight="40.0" prefWidth="200.0" styleClass="login-button"
stylesheets="@../design/design.css" text="Withdraw">
        <graphic>
            <FontAwesomeIconView glyphName="ARROW_DOWN" size="20" styleClass="login-icon" />
        </graphic>
        <font>
            <Font size="18.0" />
        </font>
    </Button>
</children>
</Pane>
</children>
</AnchorPane>
</content>

```

</ScrollPane>

WithdrawAmountController.java

```

package withdraw;

import java.net.URL;
import java.sql.Connection;
import java.util.Date;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.time.LocalDate;
import java.time.format.DateTimeFormatter;
import java.util.Calendar;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Alert;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import login.LoginScreenController;

/**
 * FXML Controller class
 *
 * @author admin
 */
public class WithdrawAmountController implements Initializable {

    @FXML
    private Label account_no;

    @FXML
    private Label balance;

    @FXML
    private TextField amt_field;

    @FXML
    private TextField pin_field;

    Calendar cal = Calendar.getInstance();
    int year = cal.get(Calendar.YEAR);
    int month = cal.get(Calendar.MONTH);

```

```

int day = cal.get(Calendar.DAY_OF_MONTH);
int hour = cal.get(Calendar.HOUR);
int minutes = cal.get(Calendar.MINUTE);
int seconds = cal.get(Calendar.SECOND);
int daynight = cal.get(Calendar.AM_PM);

```

```

DateFormat dateformat = new SimpleDateFormat("yyyy/MM/dd");
Date d = new Date();
String date = dateformat.format(d);

```

```

LocalTime localTime = LocalTime.now();
DateTimeFormatter dt = DateTimeFormatter.ofPattern("hh:mm:ss a");
String time = localTime.format(dt);

```

```

public void setInfo(){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);

        rs = ps.executeQuery();
        if(rs.next()){
            account_no.setText(rs.getString("AccountNo"));
            balance.setText(rs.getString("Balance"));

        }

    }catch(Exception e){
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in login .");
        a.setContentText("There is some error. PLEASE TRY AGAIN..!!!" + e.getMessage());
        a.showAndWait();

    }
}

```

```

public void widhdrawButton(){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=? AND PIN=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);
        ps.setString(2,pin_field.getText());

        rs = ps.executeQuery();
        if(rs.next()){
            int wda = Integer.parseInt(amt_field.getText());
            int ta = Integer.parseInt(balance.getText());
            if(wda>ta){
                Alert a = new Alert(Alert.AlertType.ERROR);
                a.setTitle("Error");
                a.setHeaderText("Error in Withdraw");
                a.setContentText("Your account does not have enough balance ..!!!" );
                a.showAndWait();
            }
            else{
                int total = ta-wda;
                String sql1 = "UPDATE userdata SET Balance='"+total+"' WHERE AccountNo
='"+LoginScreenController.acc+"'";
                ps = con.prepareStatement(sql1);
                ps.execute();
                String sql2 ="INSERT INTO withdraw(AccountNo, withdrawAmount, RemainingAmount, Date,
Time) VALUES (?,?,,?,?)";
                ps = con.prepareStatement(sql2);
                ps.setString(1,LoginScreenController.acc);
                ps.setString(2,String.valueOf(wda));
                ps.setString(3,String.valueOf(total));
                ps.setString(4,date);
                ps.setString(5,time);

                int i = ps.executeUpdate();
                if(i>0){
                    Alert a = new Alert(Alert.AlertType.INFORMATION);
                    a.setTitle("Amount Withdraw");
                    a.setHeaderText("Amount Withdrawal Sucessfull ");
                    a.setContentText("Amount "+ wda+" has been sucessfully withdrawn/n"+"Current Balance = "+total );
                    a.showAndWait();

                    amt_field.setText("");
                    pin_field.setText("");
                }
            }
        }
    }
}

```

```

        balance.setText(String.valueOf(total));
    }

}

}
else
{
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in login");
    a.setContentText("Your account number or pin is wrong. Enter again..!!!" );
    a.showAndWait();

}

}

} catch(Exception e){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in login .");
    a.setContentText("There is some error. PLEASE TRY AGAIN..!!!" +e.getMessage());
    a.showAndWait();

}

}

@Override
public void initialize(URL url, ResourceBundle rb) {
    setInfo();
}

}

```

Deposit money window

DepositAmount.fxml

```

<?xml version="1.0" encoding="UTF-8"?>

<?import com.jfoenix.controls.JFXPasswordField?>
<?import com.jfoenix.controls.JFXTextField?>
<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.layout.Pane?>
<?import javafx.scene.text.Font?>

```



```

<ScrollPane xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="deposit.DepositAmountController">
  <content>
    <AnchorPane id="AnchorPane" prefHeight="506.0" prefWidth="760.0">
      <children>
        <Pane layoutX="167.0" prefHeight="506.0" prefWidth="400.0">
          <children>
            <Label layoutX="79.0" layoutY="33.0" text="Deposit Amount">
              <font>
                <Font name="Impact" size="36.0" />
              </font>
            </Label>
            <Label layoutX="63.0" layoutY="119.0" text="Your Account No:">
              <font>
                <Font size="18.0" />
              </font>
            </Label>
            <Label layoutX="63.0" layoutY="185.0" text="Current Balance:">
              <font>
                <Font size="18.0" />
              </font>
            </Label>
            <Label fx:id="account_no" layoutX="230.0" layoutY="106.0" prefHeight="53.0" prefWidth="140.0"
text="000000">
              <font>
                <Font size="30.0" />
              </font>
            </Label>
            <Label fx:id="balance" layoutX="251.0" layoutY="172.0" prefHeight="53.0" prefWidth="129.0"
text="1111">
              <font>
                <Font size="30.0" />
              </font>
            </Label>
            <Label layoutX="229.0" layoutY="176.0" text="\$">
              <font>
                <Font size="30.0" />
              </font>
            </Label>
            <JFXTextField fx:id="amt_field" focusColor="#007ff5" layoutX="63.0" layoutY="261.0"
prefHeight="39.0" prefWidth="265.0" promptText="Amount" unFocusColor="#007ff5">
              <font>
                <Font size="18.0" />
              </font>
            </JFXTextField>
            <JFXPasswordField fx:id="pin_field" focusColor="#007ff5" layoutX="63.0" layoutY="331.0"
prefHeight="39.0" prefWidth="265.0" promptText="Enter Account PIN" unFocusColor="#007ff5">
              <font>
                <Font size="18.0" />
              </font>
            </JFXPasswordField>
          </children>
        </Pane>
      </children>
    </AnchorPane>
  </content>
</ScrollPane>

```

```

        <Button layoutX="92.0" layoutY="423.0" mnemonicParsing="false"
onMouseClicked="#depositButton" prefHeight="40.0" prefWidth="200.0" styleClass="login-button"
stylesheets="@../design/design.css" text="Deposit">
        <graphic>
            <FontAwesomeIconView glyphName="PLUS" size="20" styleClass="login-icon" />
        </graphic>
        <font>
            <Font size="18.0" />
        </font>
    </Button>
</children>
</Pane>
</children>
</AnchorPane>
</content>
</ScrollPane>

```

DepositAmountController.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package deposit;

import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.time.LocalDate;
import java.time.format.DateTimeFormatter;
import java.util.Calendar;
import java.util.Date;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Alert;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import login.LoginScreenController;

/**
 * FXML Controller class
 *
 * @author admin
 */
public class DepositAmountController implements Initializable {

```

```
@FXML
private Label account_no;
```

```
@FXML
private Label balance;
```

```
@FXML
private TextField amt_field;
```

```
@FXML
private TextField pin_field;
```

```
Calendar cal = Calendar.getInstance();
int year = cal.get(Calendar.YEAR);
int month = cal.get(Calendar.MONTH);
int day = cal.get(Calendar.DAY_OF_MONTH);
int hour = cal.get(Calendar.HOUR);
int minutes = cal.get(Calendar.MINUTE);
int seconds = cal.get(Calendar.SECOND);
int daynight = cal.get(Calendar.AM_PM);
```

```
DateFormat dateformat = new SimpleDateFormat("yyyy/MM/dd");
Date d = new Date();
String date = dateformat.format(d);
```

```
LocalTime localTime = LocalTime.now();
DateTimeFormatter dt = DateTimeFormatter.ofPattern("hh:mm:ss a");
String time = localTime.format(dt);
```

```
public void setInfo(){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);

        rs = ps.executeQuery();
        if(rs.next()){
```

```

account_no.setText(rs.getString("AccountNo"));
balance.setText(rs.getString("Balance"));

}

} catch(Exception e){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in login .");
    a.setContentText("There is some error. PLEASE TRY AGAIN..!!!" + e.getMessage());
    a.showAndWait();
}
}

public void depositButton(){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=? AND PIN=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);
        ps.setString(2, pin_field.getText());

        rs = ps.executeQuery();
        if(rs.next()){
            int da = Integer.parseInt(amt_field.getText());
            int ta = Integer.parseInt(balance.getText());

            int total = ta+da;
            String sql1 = "UPDATE userdata SET Balance='"+total+"' WHERE AccountNo
='"+LoginScreenController.acc+"'";
            ps = con.prepareStatement(sql1);
            ps.execute();
            String sql2 ="INSERT INTO deposit(AccountNo, DepositAmount, NewAmount, Date, Time)
VALUES (?, ?, ?, ?, ?)";
            ps = con.prepareStatement(sql2);
            ps.setString(1, LoginScreenController.acc);
            ps.setString(2, String.valueOf(da));
            ps.setString(3, String.valueOf(total));

```

```

        ps.setString(4,date);
        ps.setString(5,time);

        int i = ps.executeUpdate();
        if(i>0){
            Alert a = new Alert(Alert.AlertType.INFORMATION);
            a.setTitle("Amount deposit");
            a.setHeaderText("Amount Deposited Sucessfully ");
            a.setContentText("Amount "+ da+" has been sucessfully Deposited"+"\\nCurrent Balance = "+total );
            a.showAndWait();

            amt_field.setText("");
            pin_field.setText("");
            balance.setText(String.valueOf(total));

        }

    }
    else
    {
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in login");
        a.setContentText("Your account number or pin is wrong. Enter again..!!!" );
        a.showAndWait();

    }

}

} catch(Exception e){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in login .");
    a.setContentText("There is some error. PLEASE TRY AGAIN..!!!" +e.getMessage());
    a.showAndWait();

}
}

@Override
public void initialize(URL url, ResourceBundle rb) {
    setInfo();

}

}

```

Intra-bank transfer money window**TransferAmount.fxml**

```

<?xml version="1.0" encoding="UTF-8"?>

<?import com.jfoenix.controls.JFXPasswordField?>
<?import com.jfoenix.controls.JFXTextField?>
<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.layout.Pane?>
<?import javafx.scene.text.Font?>

<ScrollPane xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="transferamount.TransferAmountController">
    <content>
        <AnchorPane id="AnchorPane" prefHeight="506.0" prefWidth="760.0">
            <children>
                <Pane layoutX="168.0" prefHeight="506.0" prefWidth="532.0">
                    <children>
                        <Label layoutX="114.0" layoutY="9.0" text="Transfer Amount">
                            <font>
                                <Font name="Impact" size="36.0" />
                            </font>
                        </Label>
                        <Label layoutX="108.0" layoutY="67.0" text="Your Account No:">
                            <font>
                                <Font size="18.0" />
                            </font>
                        </Label>
                        <Label layoutX="108.0" layoutY="126.0" text="Current Balance:">
                            <font>
                                <Font size="18.0" />
                            </font>
                        </Label>
                        <Label fx:id="account_no" layoutX="275.0" layoutY="54.0" prefHeight="53.0" prefWidth="140.0"
text="000000">
                            <font>
                                <Font size="30.0" />
                            </font>
                        </Label>
                        <Label fx:id="balance" layoutX="296.0" layoutY="113.0" prefHeight="53.0" prefWidth="129.0"
text="1111">
                            <font>
                                <Font size="30.0" />
                            </font>
                        </Label>
                        <Label layoutX="274.0" layoutY="117.0" text="\$">
                            <font>
                                <Font size="30.0" />
                            </font>

```

```

        </font>
    </Label>
    <JFXTextField fx:id="amt_field" focusColor="#007ff5" layoutX="63.0" layoutY="275.0"
prefHeight="39.0" prefWidth="265.0" promptText="Amount" unFocusColor="#007ff5">
        <font>
            <Font size="18.0" />
        </font>
    </JFXTextField>
    <JFXPasswordField fx:id="pin_field" focusColor="#007ff5" layoutX="63.0" layoutY="331.0"
prefHeight="39.0" prefWidth="265.0" promptText="Enter Account PIN" unFocusColor="#007ff5">
        <font>
            <Font size="18.0" />
        </font>
    </JFXPasswordField>
    <Button layoutX="153.0" layoutY="418.0" mnemonicParsing="false"
onMouseClicked="#transferAmountButton" prefHeight="40.0" prefWidth="200.0" styleClass="login-button"
stylesheets="@../design/design.css" text=" Transfer Money">
        <graphic>
            <FontAwesomeIconView glyphName="SEND" onMouseClicked="#transferAmountButton"
size="20" styleClass="login-icon" />
        </graphic>
        <font>
            <Font size="18.0" />
        </font>
    </Button>
    <JFXTextField fx:id="account_no_field" focusColor="#007ff5" layoutX="63.0" layoutY="214.0"
prefHeight="39.0" prefWidth="265.0" promptText="Account No." unFocusColor="#007ff5">
        <font>
            <Font size="18.0" />
        </font>
    </JFXTextField>
    <Button layoutX="372.0" layoutY="218.0" mnemonicParsing="false"
onMouseClicked="#checkButton" prefHeight="32.0" prefWidth="92.0" styleClass="login-button"
stylesheets="@../design/design.css" text=" Search ">
        <font>
            <Font size="14.0" />
        </font>
        <graphic>
            <FontAwesomeIconView glyphName="SEARCH" size="16" styleClass="login-icon" />
        </graphic>
    </Button>
</children>
</Pane>
</children>
</AnchorPane>
</content>
</ScrollPane>

```

TransferAmountController.java

/*

- * To change this license header, choose License Headers in Project Properties.
- * To change this template file, choose Tools | Templates
- * and open the template in the editor.

```

package transferamount;

import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.time.LocalDate;
import java.time.format.DateTimeFormatter;
import java.util.Calendar;
import java.util.Date;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Alert;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import login.LoginScreenController;

/**
 * FXML Controller class
 *
 * @author admin
 */
public class TransferAmountController implements Initializable {

    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    @FXML
    private Label account_no;

    @FXML
    private Label balance;

    @FXML
    private TextField account_no_field;

    @FXML
    private TextField amt_field;

    @FXML

```



```

private TextField pin_field;

Calendar cal = Calendar.getInstance();
int year = cal.get(Calendar.YEAR);
int month = cal.get(Calendar.MONTH);
int day = cal.get(Calendar.DAY_OF_MONTH);
int hour = cal.get(Calendar.HOUR);
int minutes = cal.get(Calendar.MINUTE);
int seconds = cal.get(Calendar.SECOND);
int daynight = cal.get(Calendar.AM_PM);

DateFormat dateformat = new SimpleDateFormat("yyyy/MM/dd");
Date d = new Date();
String date = dateformat.format(d);

LocalTime localTime = LocalTime.now();
DateTimeFormatter dt = DateTimeFormatter.ofPattern("hh:mm:ss a");
String time = localTime.format(dt);

public void setInfo(){
    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);

        rs = ps.executeQuery();
        if(rs.next()){
            account_no.setText(rs.getString("AccountNo"));
            balance.setText(rs.getString("Balance"));
        }
    }
    catch(Exception e){
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in login .");
        a.setContentText("There is some error. PLEASE TRY AGAIN..!!!" + e.getMessage());
        a.showAndWait();
    }
}

```

```

}

public void checkButton(){

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, account_no_field.getText());

        rs = ps.executeQuery();
        if(rs.next()){
            Alert a = new Alert(Alert.AlertType.INFORMATION);
            a.setTitle("Account Information");
            a.setHeaderText("Below is the information of account .");
            a.setContentText("Account No = "+account_no_field.getText()+"\nName:
"+rs.getString("Name")+"\nMobile No.: "+rs.getString("MobileNo"));
            a.showAndWait();

        }

    } catch(Exception e){
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in login .");
        a.setContentText("There is some error. PLEASE TRY AGAIN..!!!" +e.getMessage());
        a.showAndWait();

    }

}

public void transferAmountButton() throws SQLException, ClassNotFoundException{

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM userdata WHERE AccountNo=? AND PIN=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);
        ps.setString(2,pin_field.getText());

        rs = ps.executeQuery();
        if(rs.next()){

```

```

int transfer_amt = Integer.parseInt(amt_field.getText());
int ta = Integer.parseInt(balance.getText());
if(transfer_amt>ta){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in Transfer ");
    a.setContentText("Your account does not have enough balance ...!!!" );
    a.showAndWait();
}
else{
    int total = ta-transfer_amt;
    String sql1 = "UPDATE userdata SET Balance='"+total+"' WHERE AccountNo
='"+LoginScreenController.acc+"'";
    ps = con.prepareStatement(sql1);
    ps.execute();

    String sql2 = "SELECT * FROM userdata WHERE AccountNo=?";
    ps = con.prepareStatement(sql2);
    ps.setString(1, account_no_field.getText());
    rs = ps.executeQuery();
    if(rs.next()){

        int cur = Integer.parseInt(amt_field.getText());
        int prev = Integer.parseInt(rs.getString("Balance"));

        int total1 = cur+prev;

        String sql4 = "UPDATE userdata SET Balance='"+total1+"' WHERE AccountNo
='"+account_no_field.getText()+"'";
        ps = con.prepareStatement(sql4);
        ps.execute();

        String sql5 ="INSERT INTO transferamount(AccountNo, Amount, SendTo, Date, Time) VALUES
(?,?,?,?,:)";
        ps = con.prepareStatement(sql5);
        ps.setString(1,LoginScreenController.acc);
        ps.setString(2,String.valueOf(amt_field.getText()));
        ps.setString(3,String.valueOf(account_no_field.getText()));
        ps.setString(4,date);
        ps.setString(5,time);

        int i = ps.executeUpdate();
        if(i>0){
            Alert a = new Alert(Alert.AlertType.INFORMATION);
            a.setTitle("Amount Transferred");
            a.setHeaderText("Amount Transferred Sucessfully ");
            a.setContentText("Amount "+ cur+" has been sucessfully Transferred\n"+"To Account No =
"+account_no_field.getText() );
            a.showAndWait();

            account_no_field.setText("");

```

```

        amt_field.setText("");
        pin_field.setText("");
        balance.setText(String.valueOf(total));

    }

}

else
{
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in login");
    a.setContentText("Your account number or pin is wrong. Enter again..!!!" );
    a.showAndWait();
}

}

}
}
catch(Exception e){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in login .");
    a.setContentText("There is some error. PLEASE TRY AGAIN..!!!" + e.getMessage());
    a.showAndWait();

}

}

@Override
public void initialize(URL url, ResourceBundle rb) {
    setInfo();
}
}
}

```

Transaction history

History.java

```
package transactionhistory;
```

```
public class History {
```

```

private String name;
private String amount;
private String generic;
private String date;
private String time;

public History(String name, String amount, String generic, String date, String time) {
    this.name = name;
    this.amount = amount;
    this.generic = generic;
    this.date = date;
    this.time = time;
}

public String getName() {
    return name;
}

public String getAmount() {
    return amount;
}

public String getGeneric() {
    return generic;
}

public String getDate() {
    return date;
}

public String getTime() {
    return time;
}
}

```

TransactionHistory.fxml

```

<?xml version="1.0" encoding="UTF-8"?>

<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.control.Tab?>
<?import javafx.scene.control.TabPane?>
<?import javafx.scene.control.TableColumn?>
<?import javafx.scene.control.TableView?>
<?import javafx.scene.layout.AnchorPane?>

<ScrollPane xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="transactionhistory.TransactionHistoryController">
    <content>
        <AnchorPane id="AnchorPane" prefHeight="506.0" prefWidth="760.0">

```

```

<children>
  <TabPane prefHeight="506.0" prefWidth="760.0" tabClosingPolicy="UNAVAILABLE">
    <tabs>
      <Tab text="Withdraw History">
        <content>
          <AnchorPane minHeight="0.0" minWidth="0.0" prefHeight="180.0" prefWidth="200.0">
            <children>
              <TableView fx:id="withdraw_table" prefHeight="470.0" prefWidth="762.0">
                <columns>
                  <TableColumn fx:id="withdraw_accountno" prefWidth="142.0" text="Account No" />
                  <TableColumn fx:id="withdraw_amount" prefWidth="159.0" text="Withdraw Amount" />
                  <TableColumn fx:id="withdraw_remainingamount" prefWidth="187.0" text="Remaining
Amount" />
                  <TableColumn fx:id="withdraw_date" prefWidth="134.0" text="Date" />
                  <TableColumn fx:id="withdraw_time" prefWidth="139.0" text="Time" />
                </columns>
              </TableView>
            </children>
          </AnchorPane>
        </content>
      </Tab>
      <Tab text="Deposit History">
        <content>
          <AnchorPane minHeight="0.0" minWidth="0.0" prefHeight="180.0" prefWidth="200.0">
            <children>
              <TableView fx:id="deposit_table" prefHeight="469.0" prefWidth="762.0">
                <columns>
                  <TableColumn fx:id="deposit_accountno" prefWidth="148.0" text="Account No" />
                  <TableColumn fx:id="deposit_amount" prefWidth="181.0" text="Deposit Amount" />
                  <TableColumn fx:id="deposit_remainingamount" prefWidth="167.0" text="New Amount"
/>
                  <TableColumn fx:id="deposit_date" prefWidth="104.0" text="Date" />
                  <TableColumn fx:id="deposit_time" prefWidth="161.0" text="Time" />
                </columns>
              </TableView>
            </children>
          </AnchorPane>
        </content>
      </Tab>
      <Tab text="Transfer Amount History">
        <content>
          <AnchorPane minHeight="0.0" minWidth="0.0" prefHeight="180.0" prefWidth="200.0">
            <children>
              <TableView fx:id="transfer_table" prefHeight="473.0" prefWidth="762.0">
                <columns>
                  <TableColumn fx:id="transfer_accountno" prefWidth="156.0" text="Account No" />
                  <TableColumn fx:id="transfer_amount" prefWidth="161.0" text="Amount" />
                  <TableColumn fx:id="transfer_remainingamount" prefWidth="179.0" text="Send To" />
                  <TableColumn fx:id="transfer_date" prefWidth="110.0" text="Date" />
                  <TableColumn fx:id="transfer_time" prefWidth="155.0" text="Time" />
                </columns>
              </TableView>
            </children>
          </AnchorPane>
        </content>
      </Tab>
    </tabs>
  </TabPane>
</children>

```

```

        </TableView>
    </children>
</AnchorPane>
</content>
</Tab>
<Tab text="Money Received History">
    <content>
        <AnchorPane minHeight="0.0" minWidth="0.0" prefHeight="180.0" prefWidth="200.0">
            <children>
                <TableView fx:id="recieve_table" prefHeight="471.0" prefWidth="762.0">
                    <columns>
                        <TableColumn fx:id="recieve_accountno" prefWidth="168.0" text="Account No" />
                        <TableColumn fx:id="recieve_amount" prefWidth="129.0" text="Amount" />
                        <TableColumn fx:id="recieve_remainingamount" prefWidth="157.0" text="Recieved
From" />
                        <TableColumn fx:id="recieve_date" prefWidth="139.0" text="Date" />
                        <TableColumn fx:id="recieve_time" prefWidth="168.0" text="Time" />
                    </columns>
                </TableView>
            </children>
        </AnchorPane>
    </content>
</Tab>
</tabs>
</TabPane>
</children>
</AnchorPane>
</content>
</ScrollPane>

```

TransactionHistoryController.java

```

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package transactionhistory;

import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ResourceBundle;
import javafx.collections.FXCollections;
import static javafx.collections.FXCollections.observableList;
import javafx.collections.ObservableList;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;

```

```

import javafx.scene.control.Alert;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
import javafx.scene.control.cell.PropertyValueFactory;
import login.LoginScreenController;

public class TransactionHistoryController implements Initializable {

    Connection con=null;
    PreparedStatement ps = null;
    ResultSet rs = null;

    @FXML
    private TableView<History> withdraw_table;

    @FXML
    private TableColumn<History, String> withdraw_accountno;

    @FXML
    private TableColumn<History, String> withdraw_amount;

    @FXML
    private TableColumn<History, String> withdraw_remainingamount;

    @FXML
    private TableColumn<History, String> withdraw_date;

    @FXML
    private TableColumn<History, String> withdraw_time;

    @FXML
    private TableView<History> deposit_table;

    @FXML
    private TableColumn<History, String> deposit_accountno;

    @FXML
    private TableColumn<History, String> deposit_amount;

    @FXML
    private TableColumn<History, String> deposit_remainingamount;

    @FXML
    private TableColumn<History, String> deposit_date;

    @FXML
    private TableColumn<History, String> deposit_time;

```



```

@FXML
private TableView<History> transfer_table;

@FXML
private TableColumn<History, String> transfer_accountno;

@FXML
private TableColumn<History, String> transfer_amount;

@FXML
private TableColumn<History, String> transfer_remainingamount;

@FXML
private TableColumn<History, String> transfer_date;

@FXML
private TableColumn<History, String> transfer_time;


@FXML
private TableView<History> recieve_table;

@FXML
private TableColumn<History, String> recieve_accountno;

@FXML
private TableColumn<History, String> recieve_amount;

@FXML
private TableColumn<History, String> recieve_remainingamount;

@FXML
private TableColumn<History, String> recieve_date;

@FXML
private TableColumn<History, String> recieve_time;


public void withdraw(){

    withdraw_accountno.setCellValueFactory(new PropertyValueFactory<History, String>("name"));
    withdraw_amount.setCellValueFactory(new PropertyValueFactory<History, String>("amount"));
    withdraw_remainingamount.setCellValueFactory(new PropertyValueFactory<History, String>("generic"));
    withdraw_date.setCellValueFactory(new PropertyValueFactory<History, String>("date"));
    withdraw_time.setCellValueFactory(new PropertyValueFactory<History, String>("time"));

    ObservableList<History> list = FXCollections.observableArrayList();

    try{
        Class.forName("com.mysql.jdbc.Driver");
    }
}

```

```

con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
String sql = "SELECT * FROM withdraw WHERE AccountNo=?";
ps = con.prepareStatement(sql);
ps.setString(1, LoginScreenController.acc);

rs = ps.executeQuery();
while(rs.next()){

    list.add(new
History(rs.getString("AccountNo"),rs.getString("WithdrawAmount"),rs.getString("RemainingAmount"),rs.getStri
ng("Date"),rs.getString("Time")));

}

} catch(Exception e){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in Fetching Data .");
    a.setContentText("There is some Error in Fetching Data. PLEASE TRY AGAIN..!!!" + e.getMessage());
    a.showAndWait();

}
withdraw_table.setItems(list);
}

public void deposit(){

deposit_accountno.setCellValueFactory(new PropertyValueFactory<History, String>("name"));
deposit_amount.setCellValueFactory(new PropertyValueFactory<History, String>("amount"));
deposit_remainingamount.setCellValueFactory(new PropertyValueFactory<History, String>("generic"));
deposit_date.setCellValueFactory(new PropertyValueFactory<History, String>("date"));
deposit_time.setCellValueFactory(new PropertyValueFactory<History, String>("time"));

ObservableList<History> list = FXCollections.observableArrayList();

try{
    Class.forName("com.mysql.jdbc.Driver");
    con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
    String sql = "SELECT * FROM deposit WHERE AccountNo=?";
    ps = con.prepareStatement(sql);
    ps.setString(1, LoginScreenController.acc);

```

```

        rs = ps.executeQuery();
        while(rs.next()){

            list.add(new
History(rs.getString("AccountNo"),rs.getString("DepositAmount"),rs.getString("NewAmount"),rs.getString("Date"),rs.getString("Time")));

        }

    } catch(Exception e){
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in Fetching Data .");
        a.setContentText("There is some Error in Fetching Data. PLEASE TRY AGAIN..!!!" + e.getMessage());
        a.showAndWait();
    }
    deposit_table.setItems(list);
}

public void transferMoney(){

    transfer_accountno.setCellValueFactory(new PropertyValueFactory<History, String>("name"));
    transfer_amount.setCellValueFactory(new PropertyValueFactory<History, String>("amount"));
    transfer_remainingamount.setCellValueFactory(new PropertyValueFactory<History, String>("generic"));
    transfer_date.setCellValueFactory(new PropertyValueFactory<History, String>("date"));
    transfer_time.setCellValueFactory(new PropertyValueFactory<History, String>("time"));

    ObservableList<History> list = FXCollections.observableArrayList();

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
        "");
        String sql = "SELECT * FROM transferamount WHERE AccountNo=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);

        rs = ps.executeQuery();
        while(rs.next()){

```

```

        list.add(new
History(rs.getString("AccountNo"),rs.getString("Amount"),rs.getString("SendTo"),rs.getString("Date"),rs.getStri
ng("Time")));

    }

} catch(Exception e){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in Fetching Data .");
    a.setContentText("There is some Error in Fetching Data. PLEASE TRY AGAIN..!!!" + e.getMessage());
    a.showAndWait();

}
transfer_table.setItems(list);
}

public void recieveMoney(){

    recieve_accountno.setCellValueFactory(new PropertyValueFactory<History, String>("name"));
    recieve_amount.setCellValueFactory(new PropertyValueFactory<History, String>("amount"));
    recieve_remainingamount.setCellValueFactory(new PropertyValueFactory<History, String>("generic"));
    recieve_date.setCellValueFactory(new PropertyValueFactory<History, String>("date"));
    recieve_time.setCellValueFactory(new PropertyValueFactory<History, String>("time"));

    ObservableList<History> list = FXCollections.observableArrayList();

    try{
        Class.forName("com.mysql.jdbc.Driver");
        con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
""");
        String sql = "SELECT * FROM transferamount WHERE SendTo=?";
        ps = con.prepareStatement(sql);
        ps.setString(1, LoginScreenController.acc);

        rs = ps.executeQuery();
        while(rs.next()){

            list.add(new
History(rs.getString("SendTo"),rs.getString("Amount"),rs.getString("AccountNo"),rs.getString("Date"),rs.getStri
ng("Time")));

```

```

    }

    } catch(Exception e){
        Alert a = new Alert(Alert.AlertType.ERROR);
        a.setTitle("Error");
        a.setHeaderText("Error in Fetching Data .");
        a.setContentText("There is some Error in Fetching Data. PLEASE TRY AGAIN..!!!" + e.getMessage());
        a.showAndWait();
    }
    recieve_table.setItems(list);
}

@Override
public void initialize(URL url, ResourceBundle rb) {
    // TODO
    withdraw();
    deposit();
    transferMoney();
    recieveMoney();
}
}

```

Change PIN Window

ChangePin.fxml

```

<?xml version="1.0" encoding="UTF-8"?>

<?import com.jfoenix.controls.JFXPasswordField?>
<?import de.jensd.fx.glyphs.fontawesome.FontAwesomeIconView?>
<?import javafx.scene.control.Button?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.ScrollPane?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.layout.Pane?>
<?import javafx.scene.text.Font?>

<ScrollPane xmlns="http://javafx.com/javafx/8.0.171" xmlns:fx="http://javafx.com/fxml/1"
fx:controller="changePin.ChangePinController">
    <content>
        <AnchorPane id="AnchorPane" prefHeight="506.0" prefWidth="760.0">
            <children>
                <Pane layoutX="167.0" prefHeight="506.0" prefWidth="400.0">
                    <children>
                        <Label layoutX="112.0" layoutY="34.0" text="Change PIN">
                            <font>
                                <Font name="Impact" size="36.0" />
                            </font>
                        </Label>
                    </children>
                </Pane>
            </children>
        </AnchorPane>
    </content>
</ScrollPane>

```

```

        </Label>
        <JFXPasswordField fx:id="confirmpin" focusColor="#007ff5" layoutX="68.0" layoutY="321.0"
prefHeight="39.0" prefWidth="265.0" promptText="Re Enter New PIN" unfocusColor="#007ff5">
        <font>
        <Font size="18.0" />
        </font>
        </JFXPasswordField>
        <Button layoutX="92.0" layoutY="423.0" mnemonicParsing="false" onMouseClicked="#changePin"
prefHeight="40.0" prefWidth="200.0" styleClass="login-button" stylesheets="@../design/design.css"
text="Change PIN">
        <graphic>
        <FontAwesomeIconView glyphName="EYE" size="20" styleClass="login-icon" />
        </graphic>
        <font>
        <Font size="18.0" />
        </font>
        </Button>
        <JFXPasswordField fx:id="newpin" focusColor="#007ff5" layoutX="68.0" layoutY="235.0"
prefHeight="39.0" prefWidth="265.0" promptText="Enter New PIN" unfocusColor="#007ff5">
        <font>
        <Font size="18.0" />
        </font>
        </JFXPasswordField>
        <JFXPasswordField fx:id="oldpin" focusColor="#007ff5" layoutX="68.0" layoutY="145.0"
prefHeight="39.0" prefWidth="265.0" promptText="Enter Current PIN" unfocusColor="#007ff5">
        <font>
        <Font size="18.0" />
        </font>
        </JFXPasswordField>
    </children>
</Pane>
</children>
</AnchorPane>
</content>
</ScrollPane>

```

ChangePin.java

```

package changepin;

import dashboard.DashboardController;
import java.net.URL;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Alert;
import javafx.scene.control.TextField;
import javafx.scene.input.MouseEvent;

```

```

import login.LoginScreenController;

public class ChangePinController implements Initializable {

    @FXML
    private TextField oldpin;

    @FXML
    private TextField newpin;

    @FXML
    private TextField confirmpin;

    DashboardController d = new DashboardController();

    public void changePin(MouseEvent event){
        Connection con=null;
        PreparedStatement ps = null;
        ResultSet rs = null;

        try{
            Class.forName("com.mysql.jdbc.Driver");
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/bank?serverTimezone=UTC" , "root",
            "");
            String sql = "SELECT * FROM userdata WHERE AccountNo=? and PIN=? ";
            ps = con.prepareStatement(sql);
            ps.setString(1, LoginScreenController.acc);
            ps.setString(2,oldpin.getText());

            rs = ps.executeQuery();
            if(rs.next()){
                if(newpin.getText().equals(confirmpin.getText())){

                    String sql1 = "UPDATE userdata SET PIN='"+newpin.getText()+"' WHERE AccountNo
                   ='"+LoginScreenController.acc+"'";
                    ps = con.prepareStatement(sql1);
                    ps.execute();

                    Alert a = new Alert(Alert.AlertType.INFORMATION);
                    a.setTitle("PIN Changed");
                    a.setHeaderText("PIN Changed Sucessfully ");
                    a.setContentText("Your PIN has been changed !!! Now you have to login again with new PIN !!!");
                    a.showAndWait();

                    oldpin.setText("");
                    newpin.setText("");
                    confirmpin.setText("");
                    d.logout(event);
                }
            }
        }
    }
}

```

```

    }

    }
    else
    { Alert a = new Alert(Alert.AlertType.ERROR);
      a.setTitle("Error");
      a.setHeaderText("Error in login");
      a.setContentText("Your account number or pin is wrong. Enter again..!!!" );
      a.showAndWait();

    }

} catch(Exception e){
    Alert a = new Alert(Alert.AlertType.ERROR);
    a.setTitle("Error");
    a.setHeaderText("Error in login .");
    a.setContentText("There is some error. PLEASE TRY AGAIN..!!!" +e.getMessage());
    a.showAndWait();

}
}

@Override
public void initialize(URL url, ResourceBundle rb) {

}
}

```

Design.css

```

.login-sidebar{
    -fx-background-color: #000000;
}

.login-main{
    -fx-background-color: white;
}

.login-forgot{
    -fx-background-color: white;
    -fx-text-fill: grey;
    -fx-cursor: hand;
}

.login-button{
    -fx-text-fill: #444444;
}

```



```

    -fx-background-radius: 50px;
    -fx-border-radius: 50px;
    -fx-background-color: white;
    -fx-border-color:#444444;
    -fx-border-style: solid;
    -fx-border-width: 1px;
}
.login-button:hover{
    -fx-text-fill: white;
    -fx-background-radius: 50px;
    -fx-background-color: #000000;
    -fx-border-color:#000000;
    -fx-border-style: solid;
    -fx-cursor: hand;
}

.login-icon{
    -fx-fill:#444444;

}
.login-button:hover.login-icon{
    -fx-fill:white;

}
.close-button:hover{
    -fx-fill: red;
}

.field-decoration{
    -fx-border-radius: 70px;
    -fx-background-radius:70px;
}

.dashboard-top{
    -fx-background-color: #313954;
}

.dashboard-sidebar{
    -fx-background-color: #424B6C;
}

.dashboard-profilepic{
    -fx-background-color: #3B4463;
}

.dashboard-menu{
    -fx-text-fill: #D3D3D3;
    -fx-background-color: #424B6C;
}

```

```

-fx-font-size:18px;
-fx-font-family:calibri;
-fx-text-transform:uppercase;
-fx-font-weight:bold;
-fx-alignment: CENTER_LEFT;
}

.dashboard-menu:hover{
-fx-text-fill: white;
-fx-border-color: #0D8BC5;
-fx-border-width: 0px 0px 0px 5px;
-fx-background-color: transparent;
-fx-cursor:hand;
}

.dashboard-menu:pressed{
-fx-text-fill: #0DA9F1;
-fx-border-color: #0D8BC5;
-fx-background-color: transparent;
}

.dashboard-menu-icons{
-fx-fill:#D3D3D3;
}

.dashboard-menu:pressed .dashboard-menu-icons{
-fx-fill:#0DA9F1;
}

.dashboard-btns{
-fx-background-color:white;
-fx-text-fill:#0DA9F1;
}

.dashboard-btns:hover{
-fx-background-color:white;
-fx-text-fill:#0DA9F1;
-fx-cursor:hand;
}

```

CHAPTER5: SNAPSHOTS

WEBSITE

Login Page

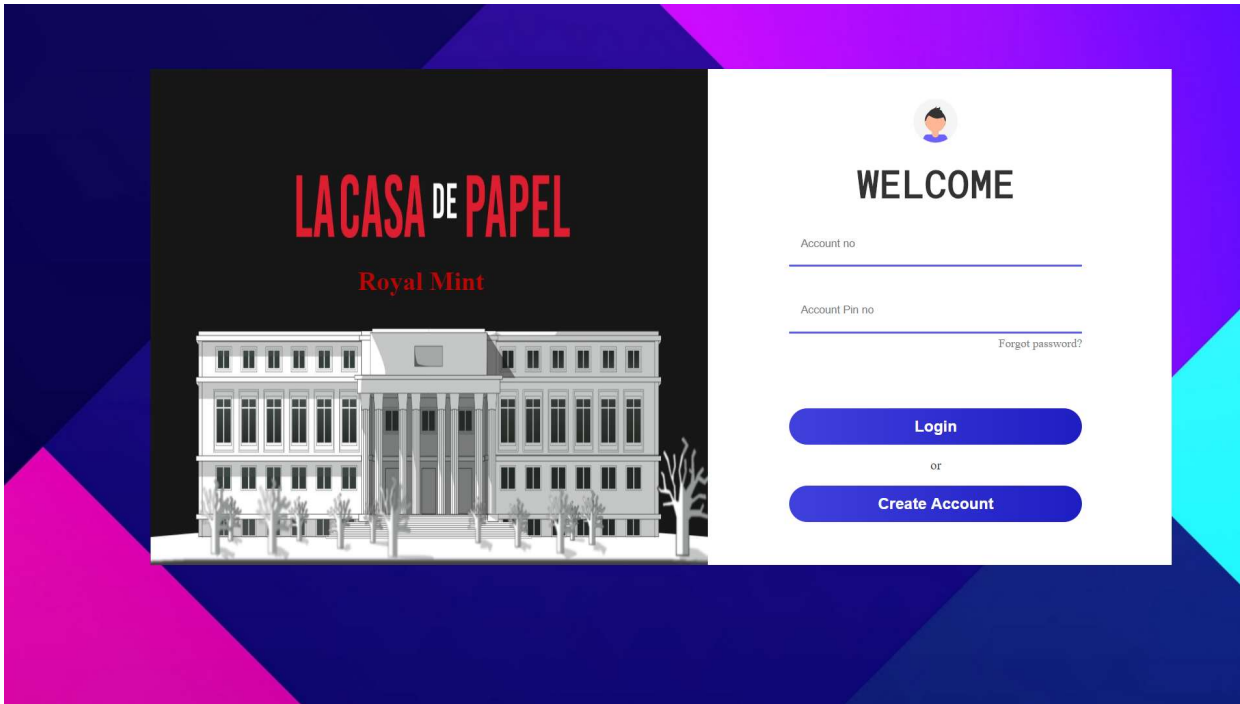


Figure 3: Login Page of the Website

Create Account

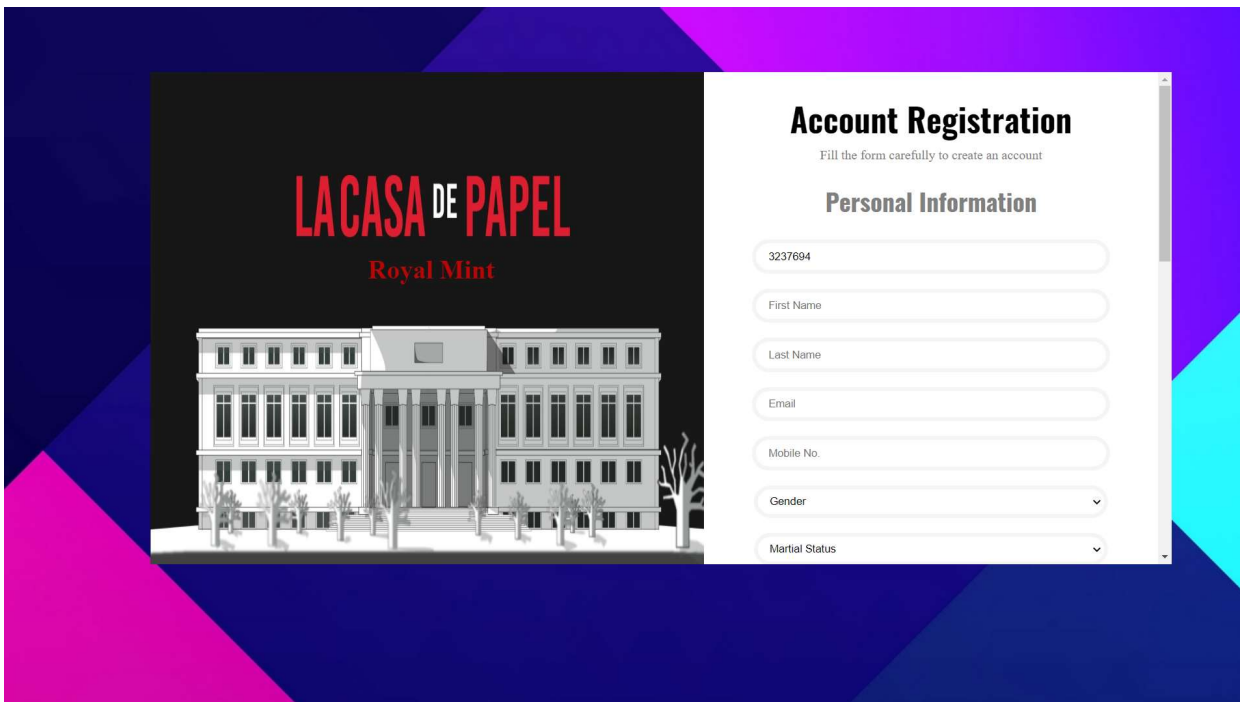


Figure 4 :Create Account Page of the Website


Forgot password Window

Forgot Password? Don't worry enter some details below to get password.

Verify

Figure 5: Forgot Password window of the Website

User Dashboard



Saksham Bairathi

Account Information

Withdraw

Deposit

Withdraw History

Deposit History


User Dashboard

Balance: ₹ 8928


Withdraw
Deposit

Account type	Account no	Branch name
Saving	109876543211	BOD

Deposit Updates Over The Recent Months



Withdraw Updates Over The Recent Months



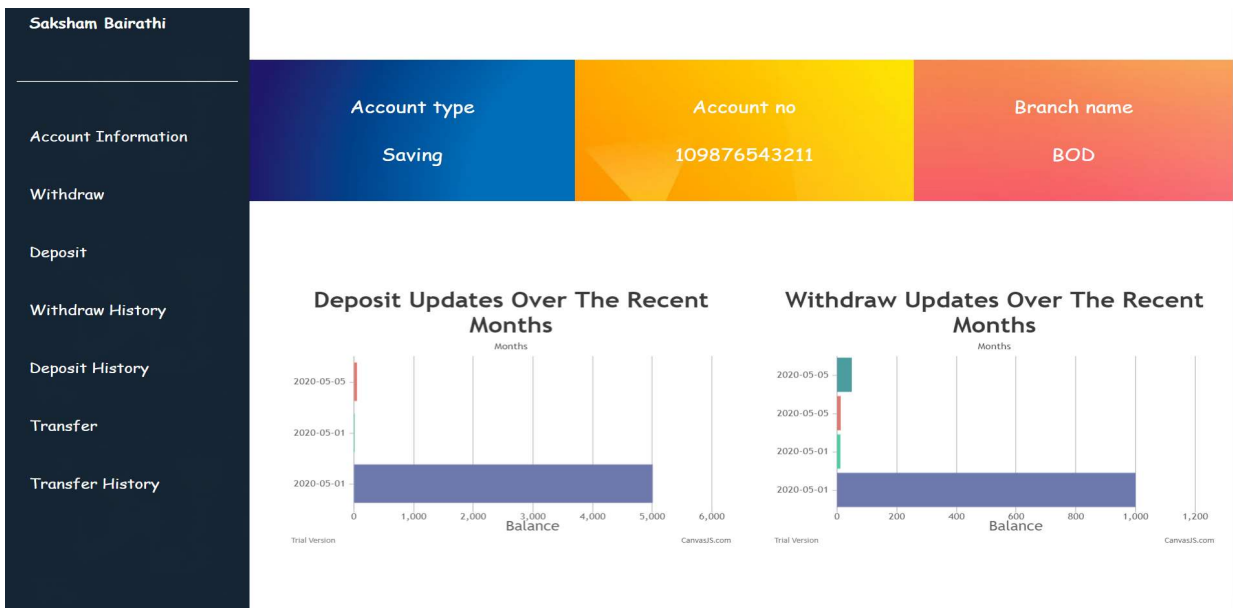


Figure 6: User Dashboard window of the Website

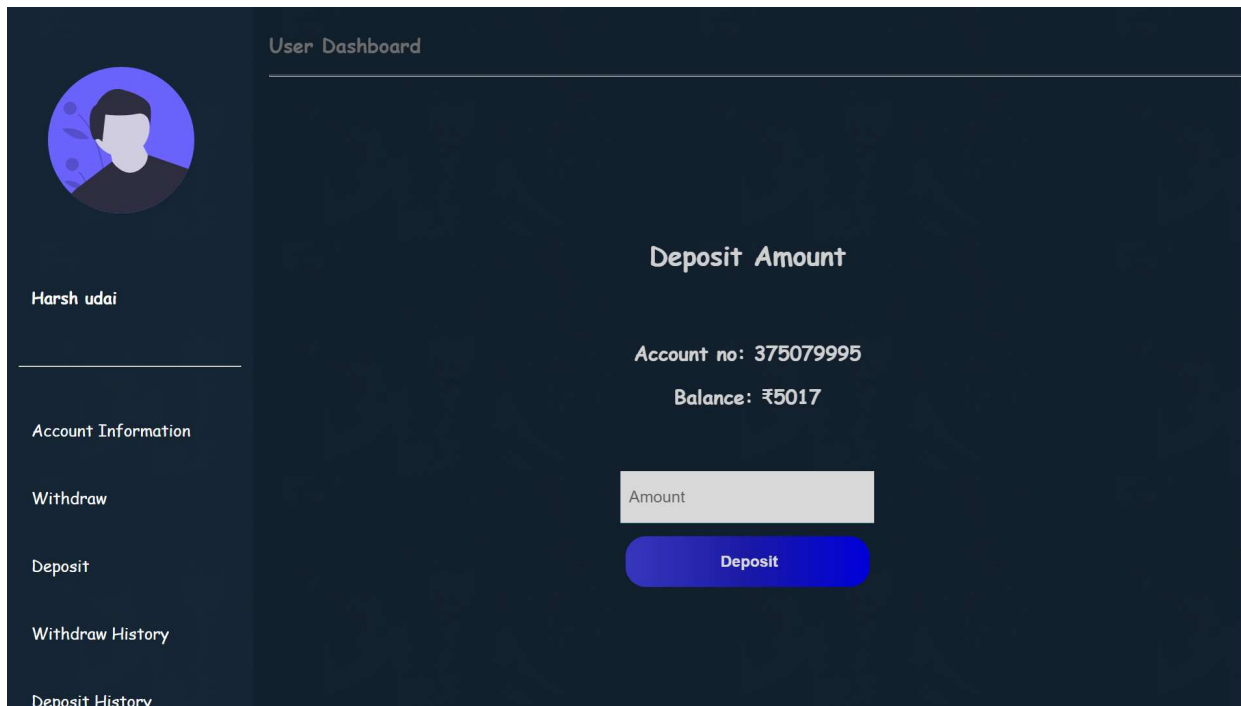
Withdraw Money

The Withdraw Money window displays the following information:

- User Dashboard:**
 - Press F11 to exit full screen
- Account Information:**
 - Account no: 375079995
 - Balance: ₹5017
- Withdrawal Amount:**
 - Amount:
 - Withdraw
- Navigation Menu:**
 - Harsh udai
 - Account Information
 - Withdraw
 - Deposit
 - Withdraw History
 - Deposit History

Figure 7: Withdraw Money window of the Website

Deposit Money



The screenshot shows a web application interface for depositing money. On the left is a dark sidebar with a user profile icon and the name 'Harsh udai'. Below the name are menu items: 'Account Information', 'Withdraw', 'Deposit', 'Withdraw History', and 'Deposit History'. The main content area has a dark background. At the top, it says 'User Dashboard'. The title 'Deposit Amount' is centered. Below the title, the account number '375079995' and balance '₹5017' are displayed. There is a light gray input field labeled 'Amount' and a blue button labeled 'Deposit'.

User Dashboard

Harsh udai

Account Information

Withdraw

Deposit

Withdraw History

Deposit History

Deposit Amount

Account no: 375079995

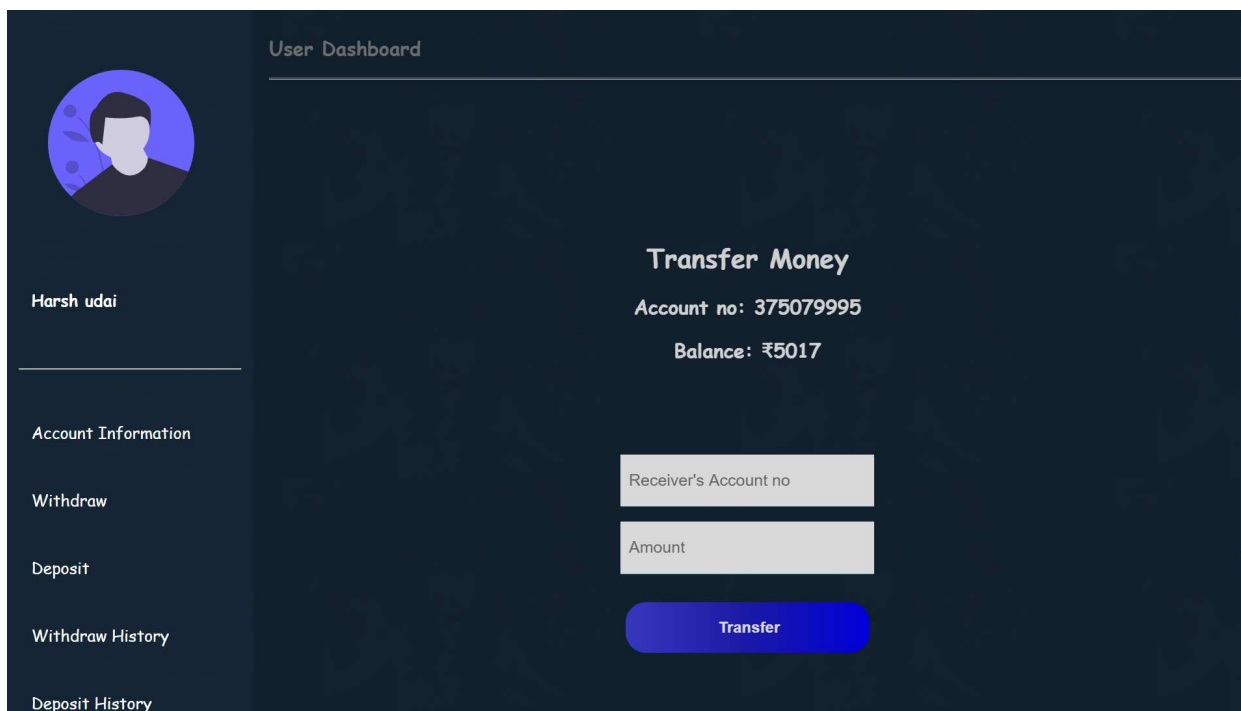
Balance: ₹5017

Amount

Deposit

Figure 8: Deposit Money window of the Website

Intra-bank Transfer Money



The screenshot shows a web application interface for intra-bank transfers. The layout is similar to the deposit window. The sidebar on the left has the same user profile and menu items. The main content area has a dark background. At the top, it says 'User Dashboard'. The title 'Transfer Money' is centered. Below the title, the account number '375079995' and balance '₹5017' are displayed. There are two light gray input fields: 'Receiver's Account no' and 'Amount'. Below these is a blue button labeled 'Transfer'.

User Dashboard

Harsh udai

Account Information

Withdraw

Deposit

Withdraw History

Deposit History

Transfer Money

Account no: 375079995

Balance: ₹5017


Receiver's Account no

Amount

Transfer

Figure 9: Intra-bank Transfer Money window of the Website

Withdraw History



Saksham Bairathi

Account Information

Withdraw

Deposit

Withdraw History

Deposit History

User Dashboard

Withdraw History


Account no: 109876543211

Balance: ₹8928

S No.	Account No	Withdraw Amount	Account User ID	Balance Due	Month	Date
1	109876543211	1000	112345678910	9900	May	2020-05-01
2	109876543211	11	112345678910	8989	May	2020-05-01
3	109876543211	12	112345678910	8977	May	2020-05-05
4	109876543211	49	112345678910	8928	May	2020-05-05

Figure 10:Withdraw history window of the Website

Deposit History



Saksham Bairathi

Account Information

Withdraw

Deposit

Withdraw History

Deposit History

User Dashboard

Deposit History

Account no: 109876543211

Balance: ₹8928

S No.	Account No	Deposit Amount	Account User ID	Balance Due	Month	Date
1	109876543211	5000	112345678910	10000	May	2020-05-01
2	109876543211	11	112345678910	9011	May	2020-05-01
3	109876543211	49	112345678910	9026	May	2020-05-05

Figure 11:Deposition History window of the Website

Intra-bank Transfer History

User Dashboard

Intra-Bank Transfer History

Account no: 109876543211

Balance: ₹8928

S No.	Account No	Receiver Account No	Amount	Receiver Account user id	Month	Date
1	109876543211	109876543211	11	112345678910	May	2020-05-01
2	109876543211	109876543211	49	112345678910	May	2020-05-05

Saksham Bairathi

Account Information

Withdraw

Deposit

Withdraw History

Deposit History

Figure 12: Intra-bank Transfer history window of the Website

JAVA APPLICATION

Login Page

LACASA DE PAPEL

Bank Of Spain

Client Software

All Rights Reserved

Welcome

login below to access your account

Account No

123456

PIN

••••

Forgot Password ?

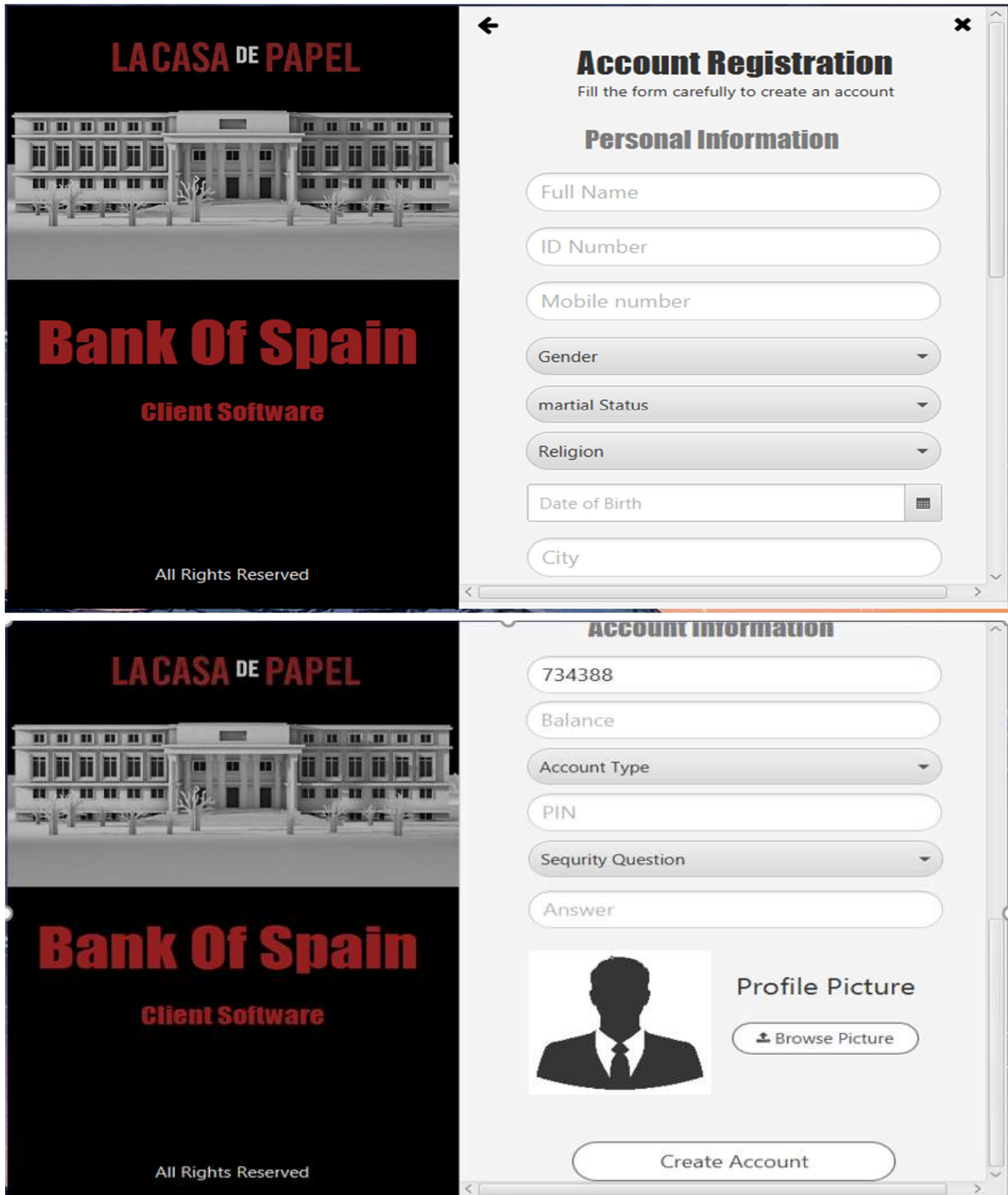
Login

OR

Create Account

Figure 13: Login page of Java Application

Create Account



The image displays two screenshots of the 'Bank Of Spain Client Software' interface. The left screenshot shows the 'Account Registration' window, which includes a header with 'LACASA DE PAPEL' and 'Bank Of Spain Client Software'. The registration form contains fields for Full Name, ID Number, Mobile number, Gender, marital Status, Religion, Date of Birth, and City. The right screenshot shows the 'Account Information' window, which includes fields for Account Number (734388), Balance, Account Type, PIN, Security Question, and Answer. It also features a 'Profile Picture' section with a silhouette icon and a 'Browse Picture' button. Both windows have a 'Create Account' button at the bottom.

Account Registration
Fill the form carefully to create an account

Personal Information

Full Name

ID Number

Mobile number

Gender

marital Status

Religion

Date of Birth

City

Account Information

734388

Balance

Account Type

PIN

Security Question

Answer

Profile Picture

Browse Picture

Create Account

Figure 14:Create Account window of the Java Application

Forgot Password



LACASA DE PAPEL

Bank Of Spain

Client Software

All Rights Reserved

Forgot Password

Recover your password here

Your Account No

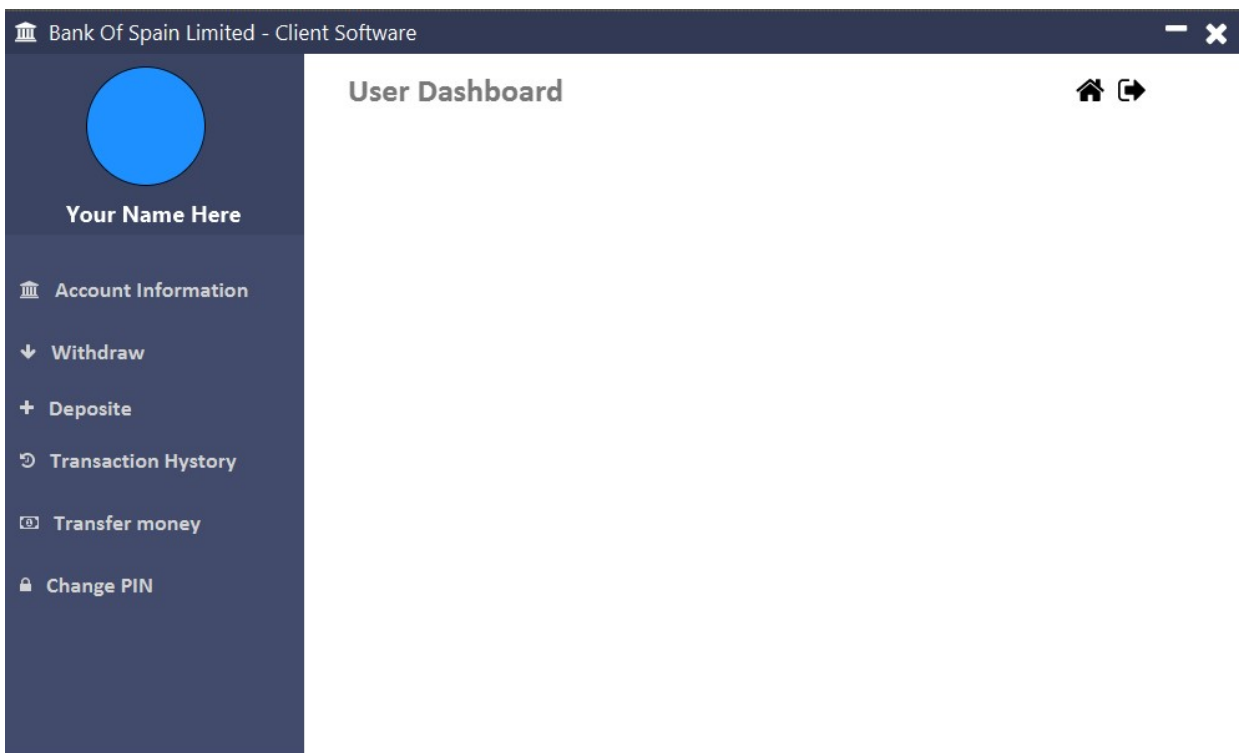
Security Question

Answer

Recover Password

Figure 15:Forgot Password window of the Java Application

User Dashboard



Bank Of Spain Limited - Client Software

User Dashboard

Your Name Here

- Account Information
- Withdraw
- Deposit
- Transaction Hystory
- Transfer money
- Change PIN

Figure 16:User Dashboard window of the Java Application

Main Screen

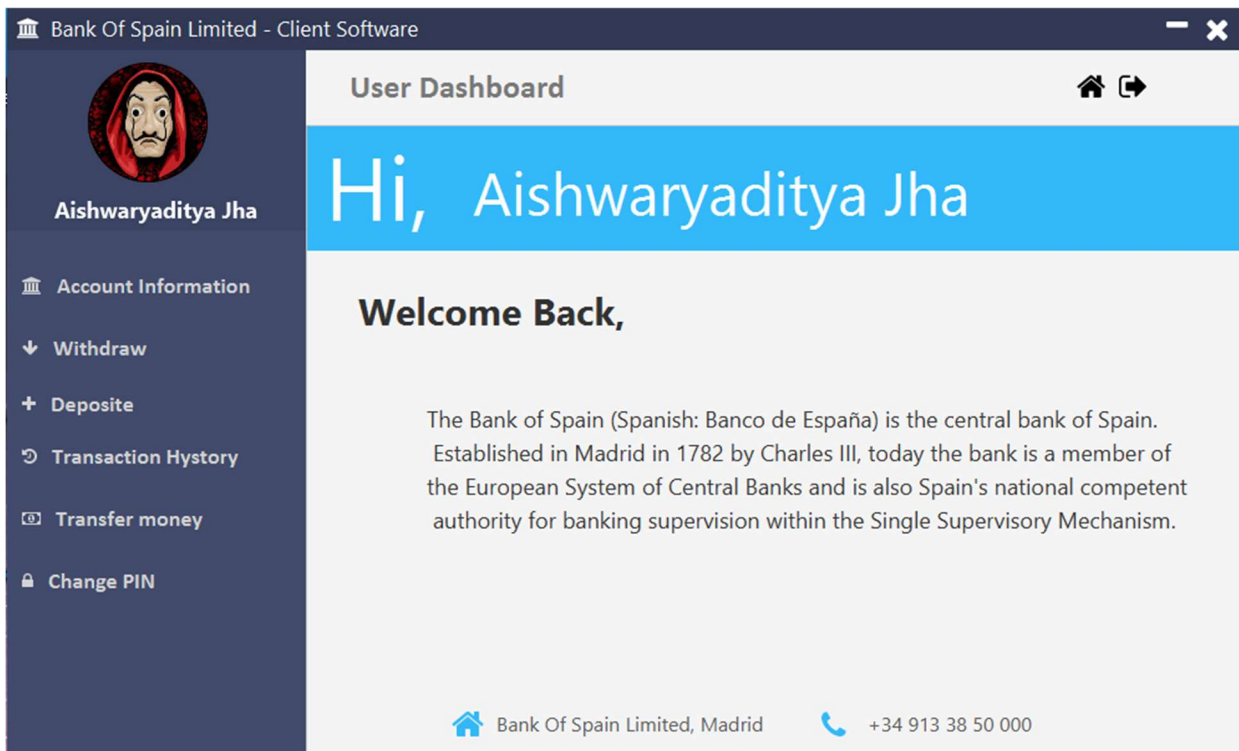


Figure 17: Main Screen window of the Java Application

Account Information

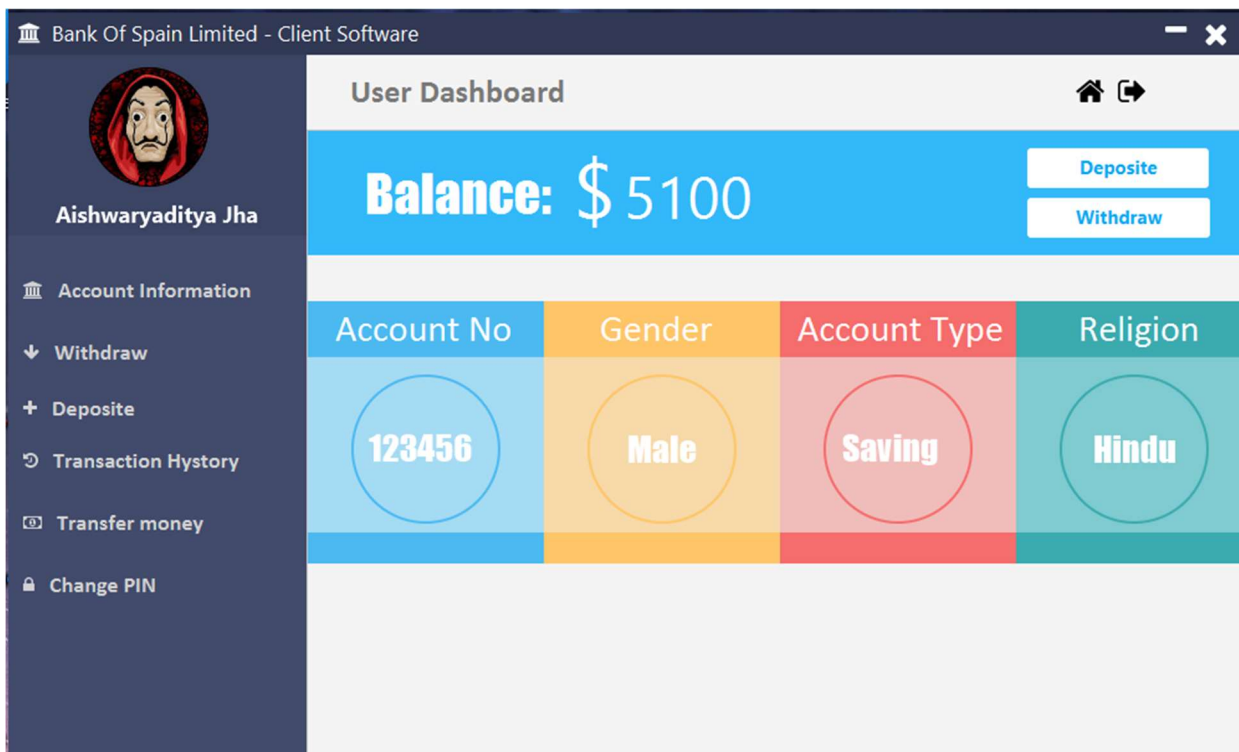
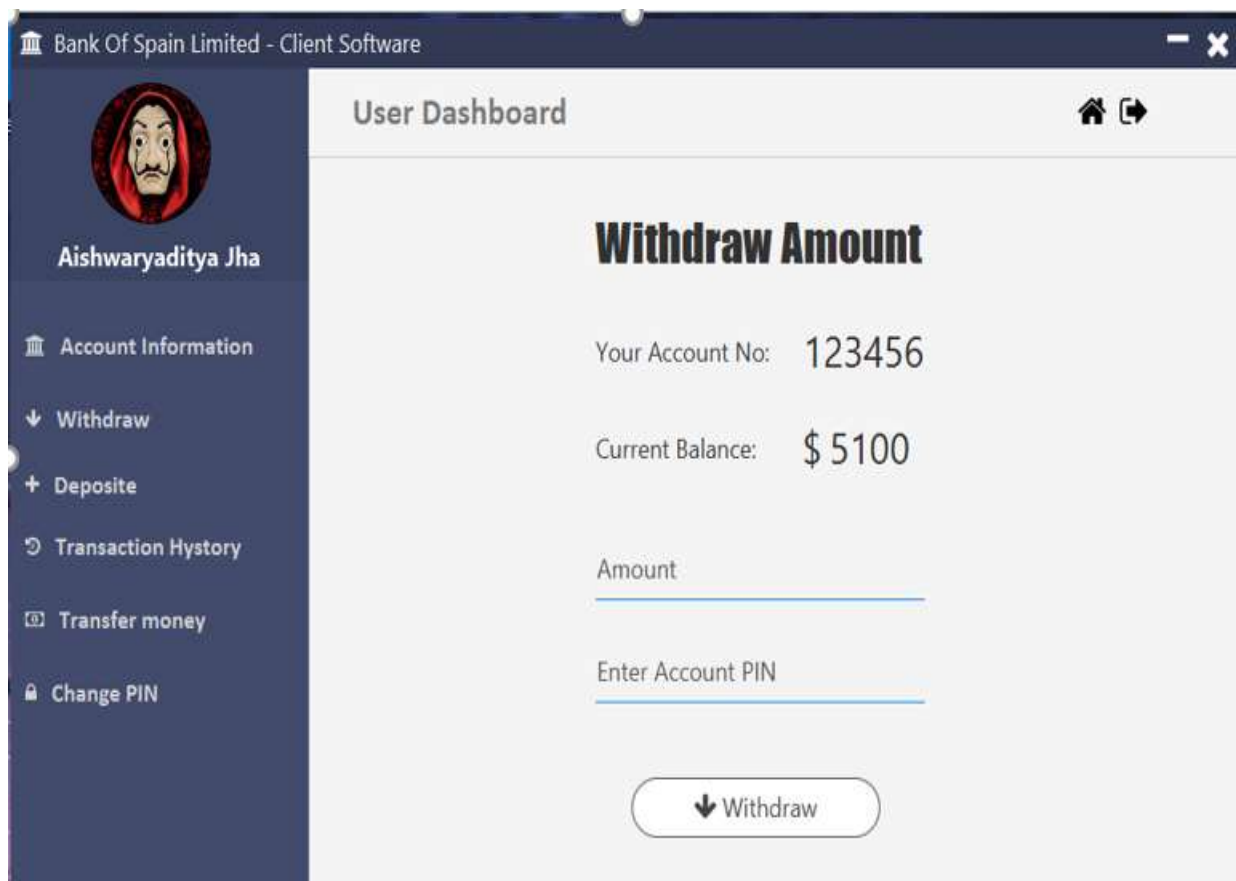


Figure 18: Account Information window of the Java Application

Withdraw Money window



Bank Of Spain Limited - Client Software

User Dashboard

Withdraw Amount

Your Account No: 123456

Current Balance: \$ 5100

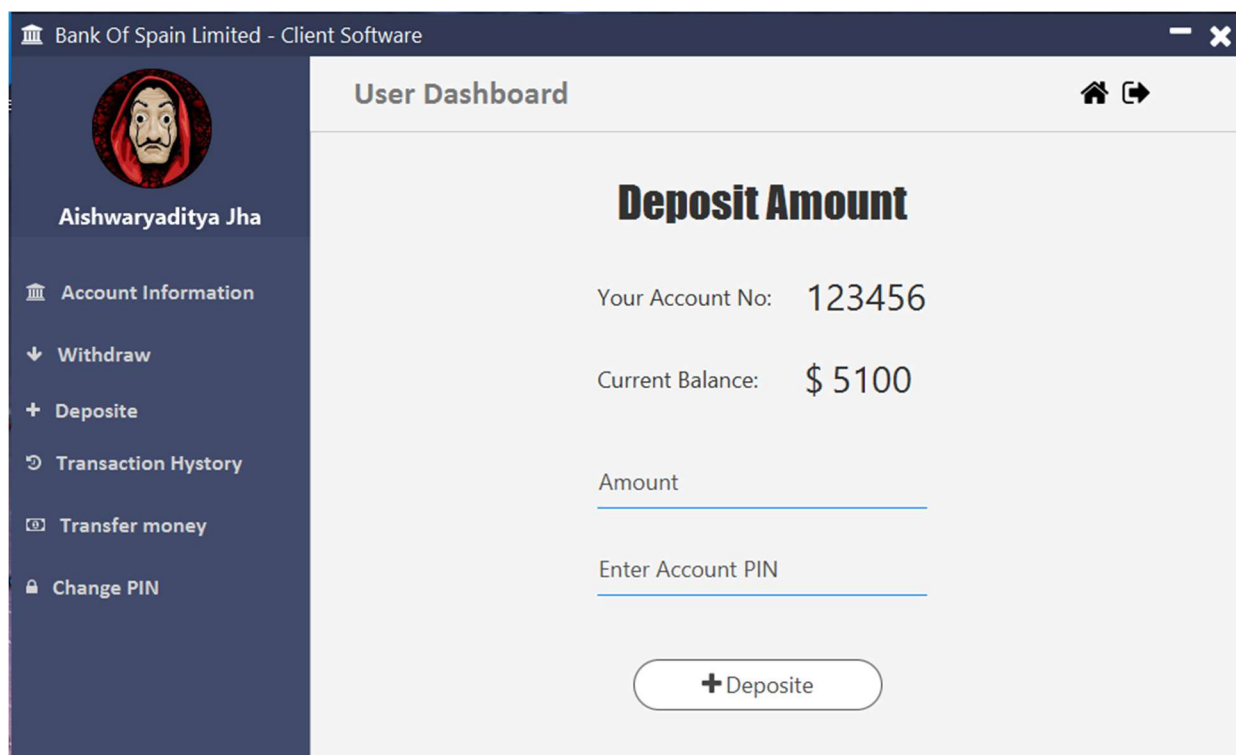
Amount

Enter Account PIN

Withdraw

Figure 19:Withdraw Money window of the Java Application

Deposit money window



Bank Of Spain Limited - Client Software

User Dashboard

Deposit Amount

Your Account No: 123456

Current Balance: \$ 5100


Amount


Enter Account PIN

Deposit


Figure 20:Deposit Money window of the Java Application


Intra-bank Transfer Money


 Bank of Spain Limited - Client Software





Aishwaryaditya Jha


 Account Information

 Withdraw

 Deposit

 Transaction History

 Transfer money

 Change PIN

User Dashboard

Transfer Amount

Your Account No: 123456

Current Balance: \$ 5100

Account No.

Search

Amount

Enter Account PIN

Transfer Money

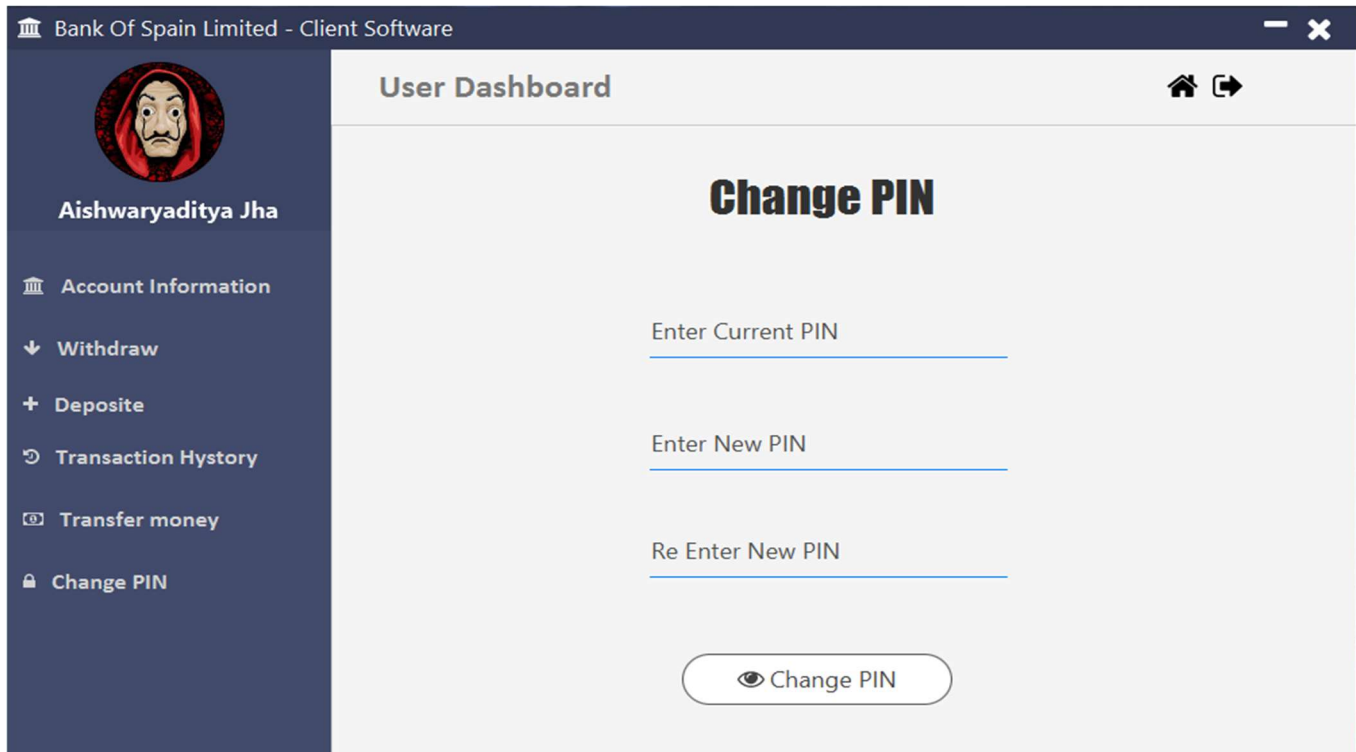
Figure 21: Intra-bank Transfer Money window of the Java Application

Transaction History

[illegible]

Figure 22: Transaction history window of the Java Application including all the withdrawal, deposition and transaction done till date

Change PIN



Bank Of Spain Limited - Client Software


User Dashboard

Change PIN

Enter Current PIN

Enter New PIN

Re Enter New PIN

 Change PIN

Aishwaryaditya Jha

- Account Information
- Withdraw
- Deposit
- Transaction History
- Transfer money
- Change PIN

Figure 23:Change PIN Number window of the Java Application

CHAPTER6: CONCLUSION

This project is developed to nurture the needs of a user in a banking sector by embedding all the tasks of transactions taking place in a bank and due to two types of implementation, the project is more versatile and user-friendly. Future version of this project will still be much enhanced than the current version. Writing and depositing checks are perhaps the most fundamental ways to move money in and out of a checking account, but advancements in technology have added Account transactions. All banks have rules about how long it takes to access your deposits, how many transactions you're allowed in a day, and how much cash you can withdraw from an Account. Access to the balance in your checking account can also be limited by businesses that place holds on your funds. Banks are providing internet banking services also so that the customers can be attracted. By asking the bank employs we came to know that maximum numbers of internet bank account holders are youth and business man. Online banking is an innovative tool that is fast becoming a necessity. It is a successful strategic weapon for banks to remain profitable in a volatile and competitive marketplace of today. If proper training should be given to customer by the bank employs to open an account will be beneficial secondly the website should be made friendlier from where the first time customers can directly make and access their accounts. Thus the Bank Account Management System is developed and executed successfully as website and desktop application both.

REFERENCES

1. Abraham Silberschatz, Henry F. Korth, and Sudharshan .S,. "Database System Concepts", 4* Edition, McGraw-Hill, New York,, 2002.
2. Article: Online banking, Website: https://en.wikipedia.org/wiki/Online_banking ,June 29, 2015, 12.30 am.
3. Online Bank Account Management System Website: <http://www.slideshare.net> (Collect some info for report documents, 2014-2015)
4. Learning MYSQL, JavaScript, jQuery, PHP, HTML, CSS3, Website: <http://www.w3schools.comm>, 2014-2015
5. PHP and MySQL video tutorials, Oct 2014-2015,Website: <http://www.freebanglatutorial.com>, <http://www.youtube.com>
6. Veneeva, V. (2006), "E-Banking (Online Banking) and Its Role in Today's Society", Ezine articles, June 30, 2015
7. Bailey, J., & Pearson, S. (1983). Development of a Tool for Measuring and Analyzing Computer User Satisfaction. Management Science, 29(5), 530-545.
8. Daniel, E. (1999). Provision of electronic banking in the UK and the Republic of Ireland. International Journal of Bank Marketing, 17(2), 72-82.