Use Case 1: Banking Application

You have to build a customer's experience with Bank Accounts

Admin Roles

- · The admin's details will be in database first hand.
- The admin can login with username and password
- The admin should register a customer with the following details:

Full name

Address

Mobile No

Email id

Type of account - Either Saving Account or Current Account

Initial Balance (min 1000)

Date of Birth

Id proof

- As a result, the customer must be registered with the bank and an Account no should be generated for the customer's account. A temporary password should also generate
- The admin should be able to add/delete/modify/see customer details, however the password and balance MUST NOT be visible to the admin

Customer Roles

- Customer registration is done by admin. After regsitration the generated account no and password should be given by admin to customer.
- With the help of account no and password, the customer should be able to set up a new password.
- After the new password is set, the customer can log in with account no and password
- The customer should be able to logout
- After login customer should come to customer dashboard page where the created account is displayed along with balance
- Clicking on View will display last 10 transactions in increasing/decreasing order of date.
- Clicking on Deposit will open a dialogue box where customer can put the amount and click submit. The balance will increase and the transaction must be saved in the database
- Clicking on Withdraw will open a dialogue box where customer can put the amount and click submit. The balance will decrease and the transaction must be saved in the database
- . The customer can maintain 0 balance, but not below that
- The customer should be able to close the account on solo basis no admin required
- The customer can close the account only after withdrawing all the money.

Bonus Functionality

 The customer should be able to download a PDF of last 10 transactions by clicking Print in the mini statement.

Instructions:

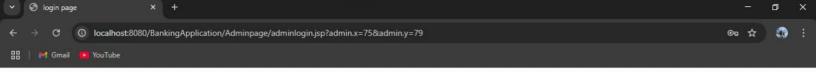
- You have to use Eclipse IDE, Tomcat 9 Server, MySQL Server and MySQL Workbench
- Do not focus too much on UI, focus more on completing end-to-end functionality
- After initial analysis, have a guick session with mentors to clarify the requirements
- Prepare a BOM (Bill of Materials) i.e., a list of software & hardware to be used
- Design and implement a well-modularized code
- Design a normalized database schema
- Only authenticated users should be allowed to access the application



Banking Application

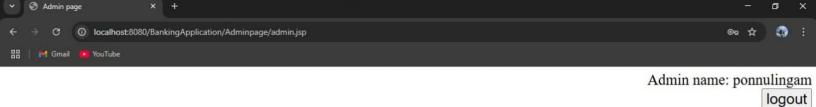






Admin login page

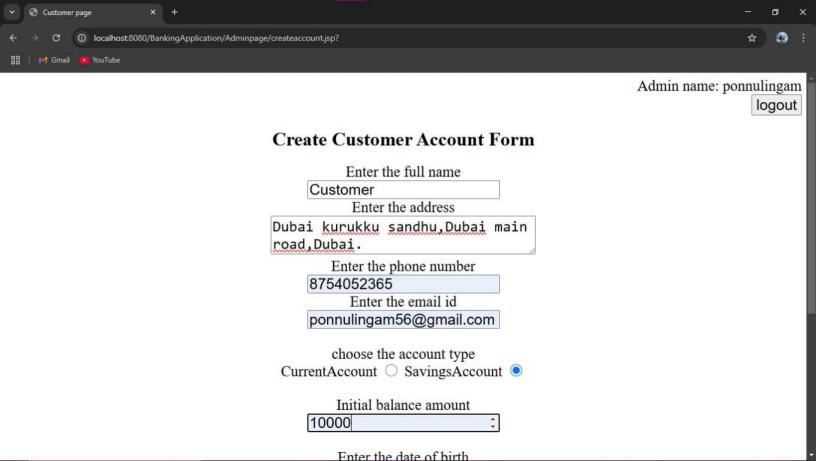
En	iter the username
ponnulii	ngam
En	iter the password
••••	
a.	
	submit
	back
	Buon

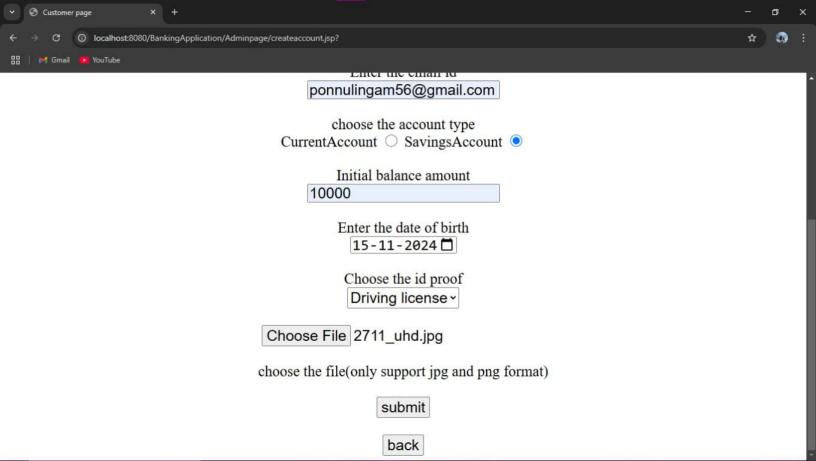


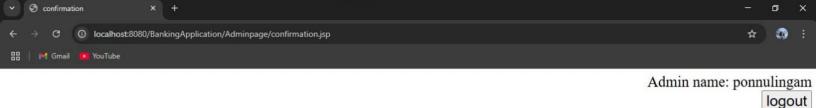
Admin controls

Create account

Controls





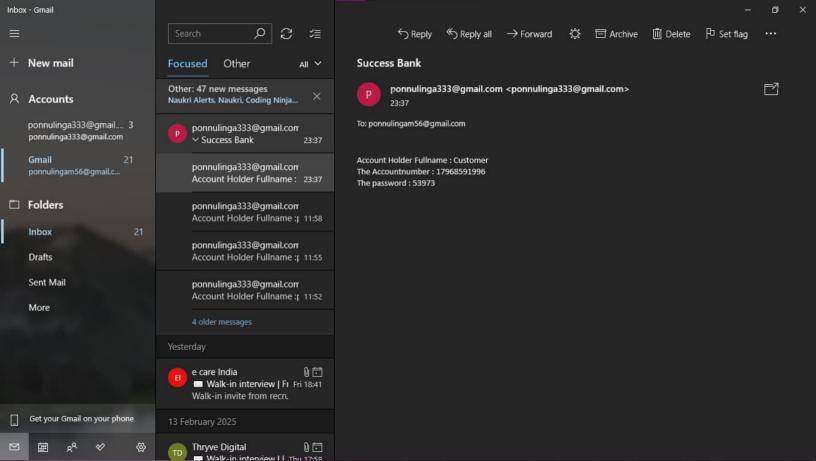


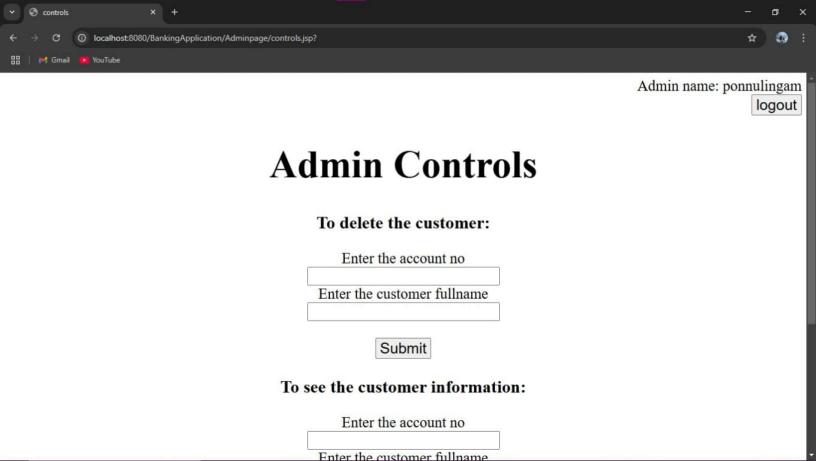
Account Created Successfully

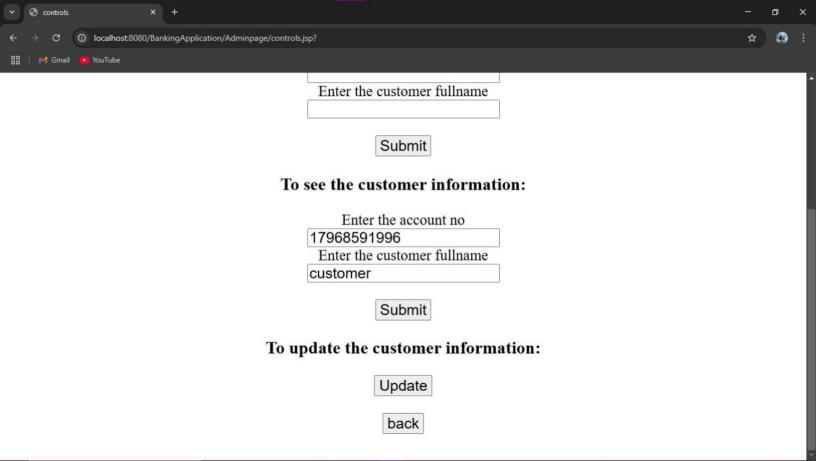
Customer name: Customer

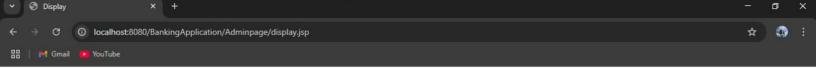
Customer Accountnumber: 17968591996

Customer password: 53973









Customer Information

Fullname: Customer

Address: Dubai kurukku sandhu, Dubai main road, Dubai.

Phoneno: 8754052365

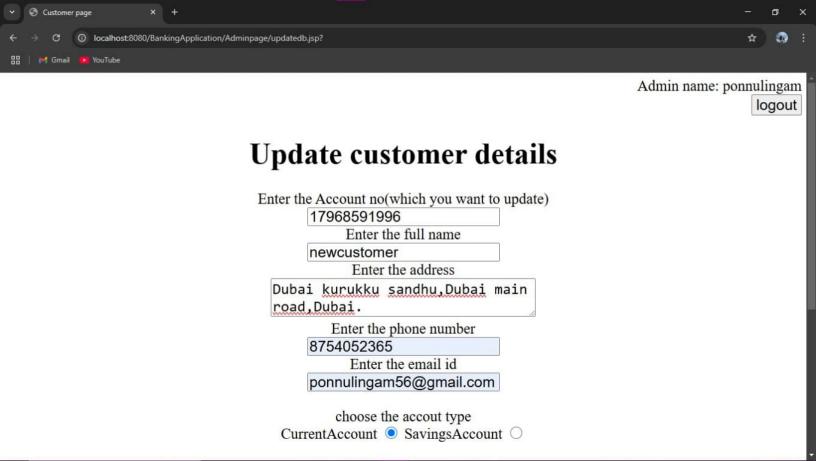
Emailid: ponnulingam56@gmail.com

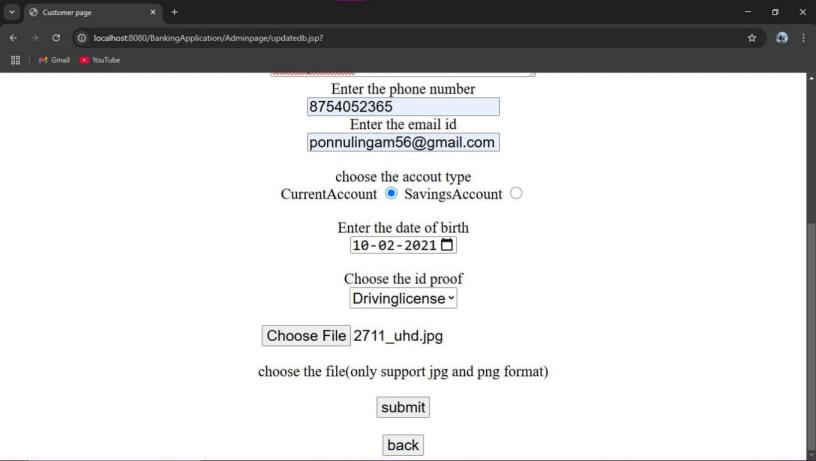
Accounttype: SavingsAccount

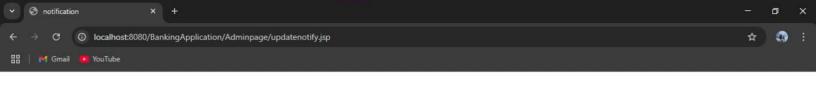
Date: 15-11-2024 Idproof: Drivinglicense Bloboutput\Customer.jpg



Accountnumber: 17968591996 Bankname: Success Bank

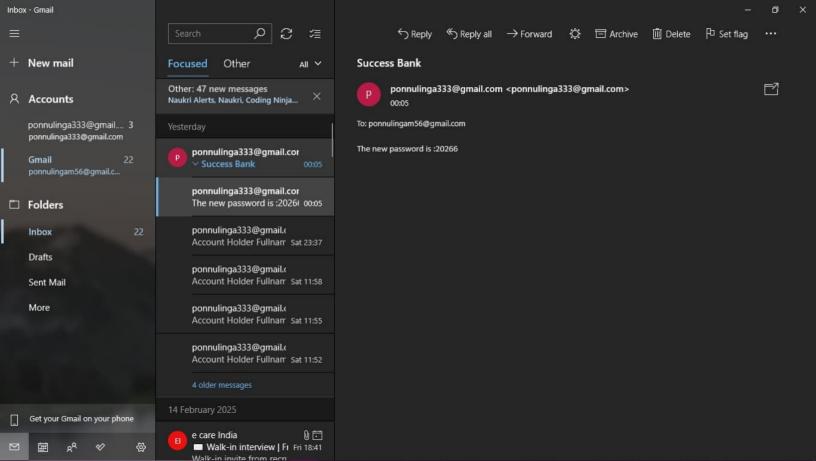






Account updated successfully

Customer new password is: 20266

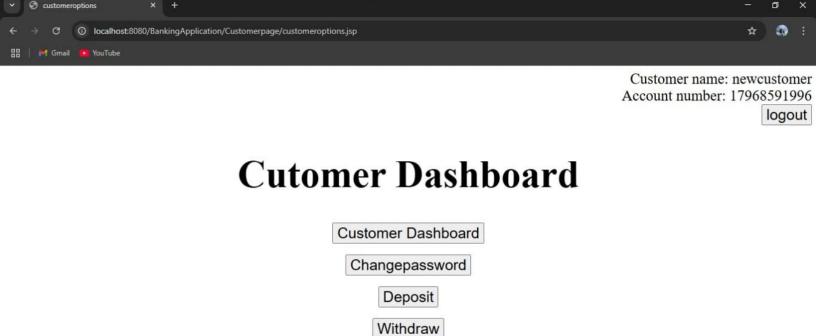




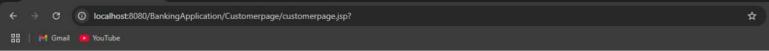
Customer login

Enter the accountnumber
17968591996
Enter the password
20266

submit
back



View CloseAccount back



Customer Dashboard

Fullname: newcustomer

customerdashboard

Address: Dubai kurukku sandhu, Dubai main road, Dubai.

Phoneno: 8754052365

Emailid: ponnulingam56@gmail.com

Accounttype: CurrentAccount

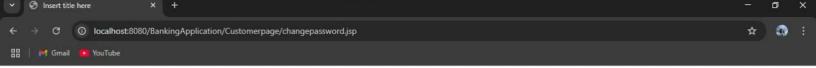
Amount: 10000 Rs

Date: 10-02-2021

Idproof: Drivinglicense Bloboutput\newcustomer.jpg

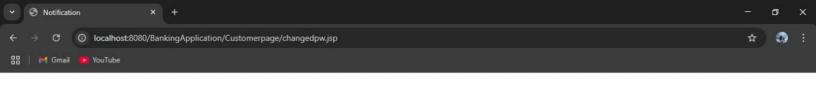


Accountnumber: 17968591996 Bankname: Success Bank



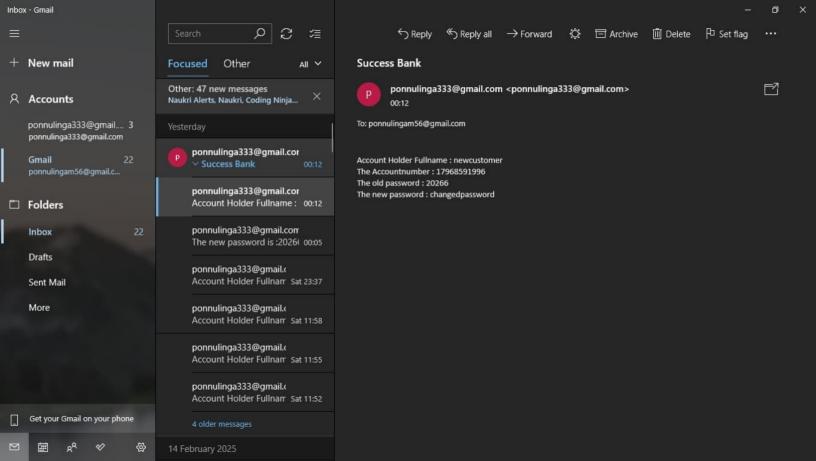
Change password

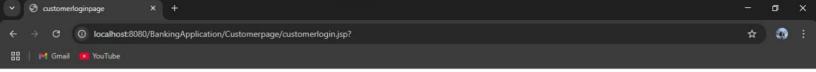
Enter the accountnumber
17968591996
Enter the password
20266
Enter the new password
changedpassword
submit
back



Password Changed Successfully!

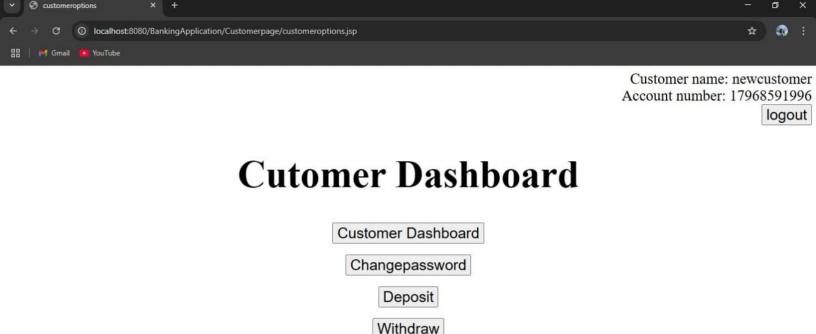
New password is: changedpassword



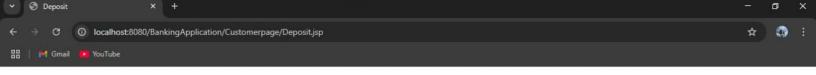


Customer login

Enter the accountnumber
17968591996
Enter the password
changedpassword
submit
back



View
CloseAccount



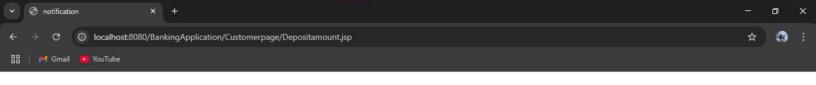
Deposit

Enter the amount

50000

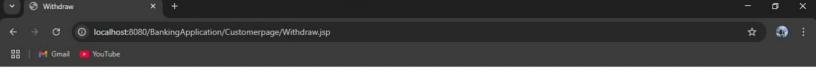
submit

back



Amount added successfully

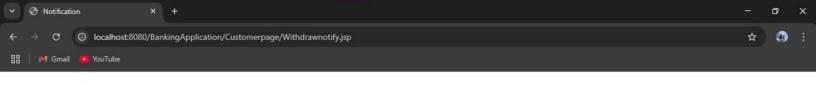
Deposit amount: 50000 The Account balance is: 60000



Withdraw

Enter the amount
40000

submit
back

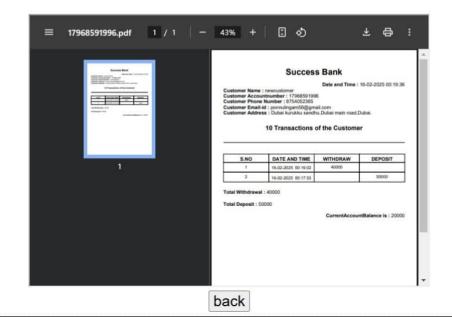


Amount withdraw successfully

Withdraw amount: 40000 The Account balance is: 20000



PDF created successfully



Success Bank

Date and Time: 16-02-2025 00:19:36

Customer Name: newcustomer

Customer Accountnumber: 17968591996 Customer Phone Number: 8754052365

Customer Email-id: ponnulingam56@gmail.com Customer Address: Dubai kurukku sandhu,Dubai main road,Dubai.

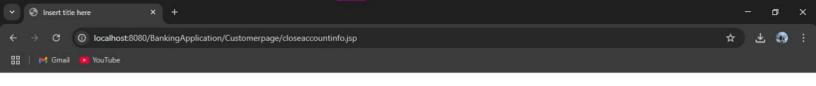
10 Transactions of the Customer

S.NO	DATE AND TIME	WITHDRAW	DEPOSIT
1	16-02-2025 00:19:02	40000	
2	16-02-2025 00:17:53		00009

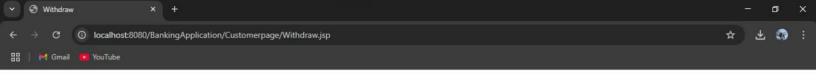
Total Withdrawal: 40000

Total Deposit: 50000

CurrentAccountBalance is: 20000



You can only close the amount after withdraw all the amount!



Withdraw

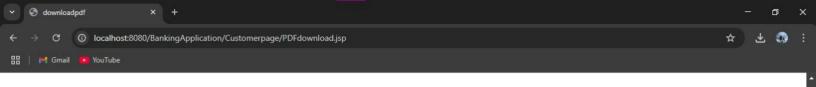
Enter the amount 20000

submit

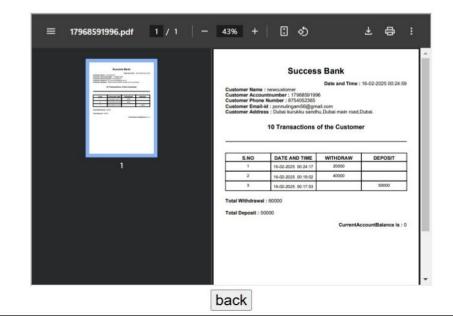


Amount withdraw successfully

Withdraw amount: 20000 The Account balance is: 0



PDF created successfully



Bank Success

Date and Time: 16-02-2025 00:24:59

Customer Name: newcustomer

Customer Accountnumber: 17968591996

Customer Phone Number: 8754052365

Customer Email-id: ponnulingam56@gmail.com Customer Address: Dubai kurukku sandhu,Dubai main road,Dubai.

10 Transactions of the Customer

DEPOSIT	0000
20000 40000	
16-02-2025 00:24:17 16-02-2025 00:19:02	10-02-2025 00:17:53
S.NO 1	,

Total Withdrawal: 60000

Total Deposit: 50000

CurrentAccountBalance is: 0



Account Closed Sucessfully

