

ASSIGNMENT SUBMISSION COVER SHEET

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Cohort:

2025

Assignment title:

OBJECT ORIENTED PROGRAMMING WITH JAVA

Date of submission:

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Programme of Study:

Computer Systems Engineering

Year of Study:

Year 2

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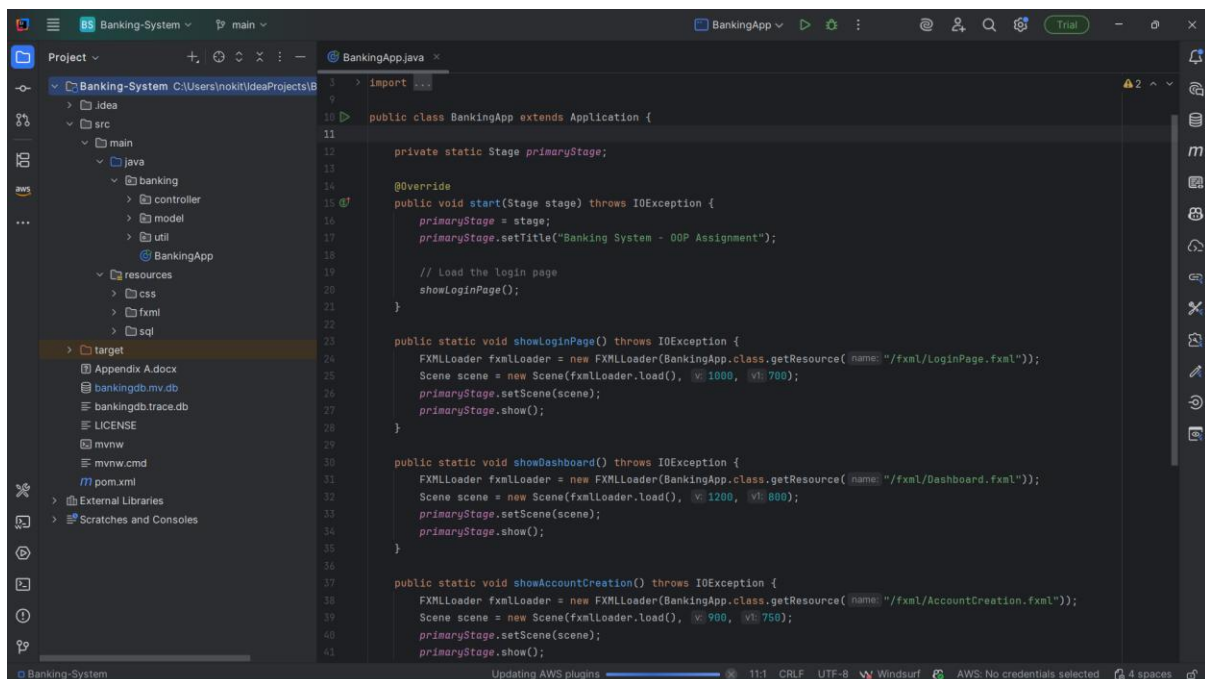
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Signature.....P.kefhitilwe.....

Report On JAVA ASSIGNMENT


Honestly id be lying if I said I struggled much at first but honestly the first initiation of my assignment was just doing the bare minimum and producing the basic requirements and where did that lead me classes ,FXML files and controllers which barely even worked but instead of despairing to the lack of everything coming together I had a talk with my Lecturer Mr Baseki and he reminded that in this module its more about giving us a sense of system development and giving us a proper fundamental understanding of the object oriented programming concepts to ensure we can adapt to any system we are given which led me to completely delete my structure entirely as I had just passively aimed to make a system.

of which in my assignment I used a previous local system for book managing as the gui was already working so all I had to do was remove the classes fix the gui to my taste on the gui and add controllers to meet my system entirely which gave me thus system



this is what my gui looks like after combining my past project css with my current system

Banking System - OOP Assignment



Banking System

Login to your account

Email Address

Password

Sign In

Create New Account

the only challenges I could say I had was getting interest to apply once in a month so I added the button to dashboard

Banking System - OOP Assignment

Banking System

Welcome, Carol Motsumi

Logout

Total Balance

BWP 0.00



Total Accounts

0

Interest Accounts

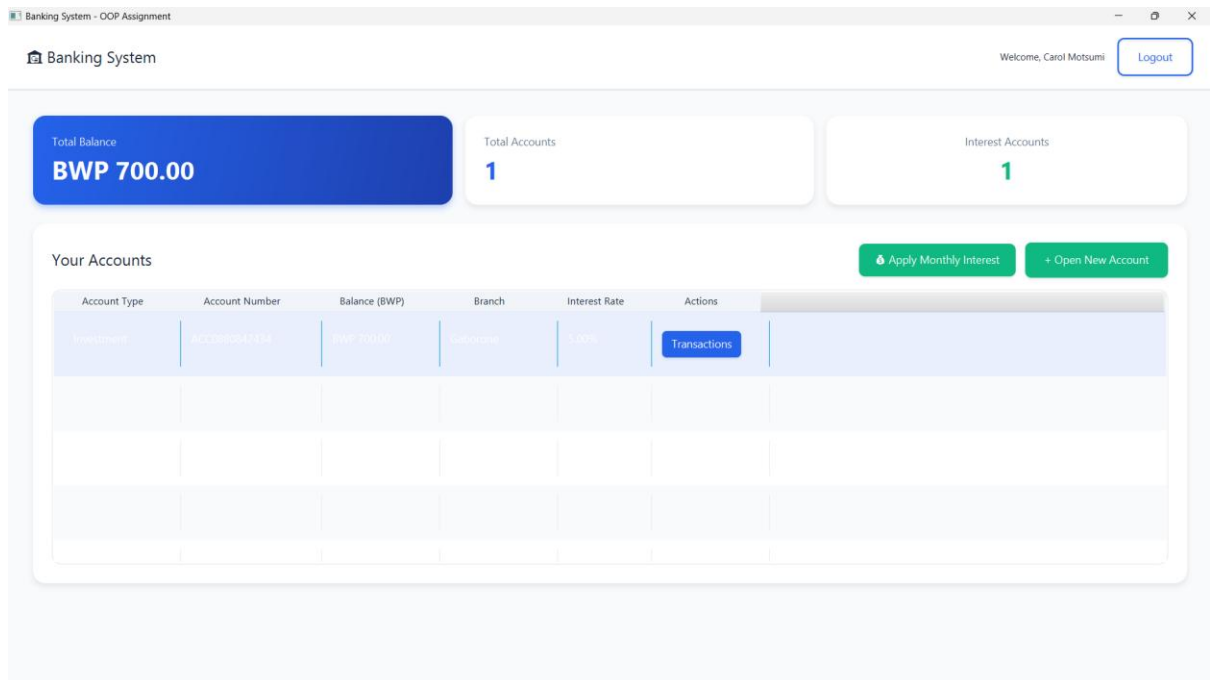
0

Your Accounts

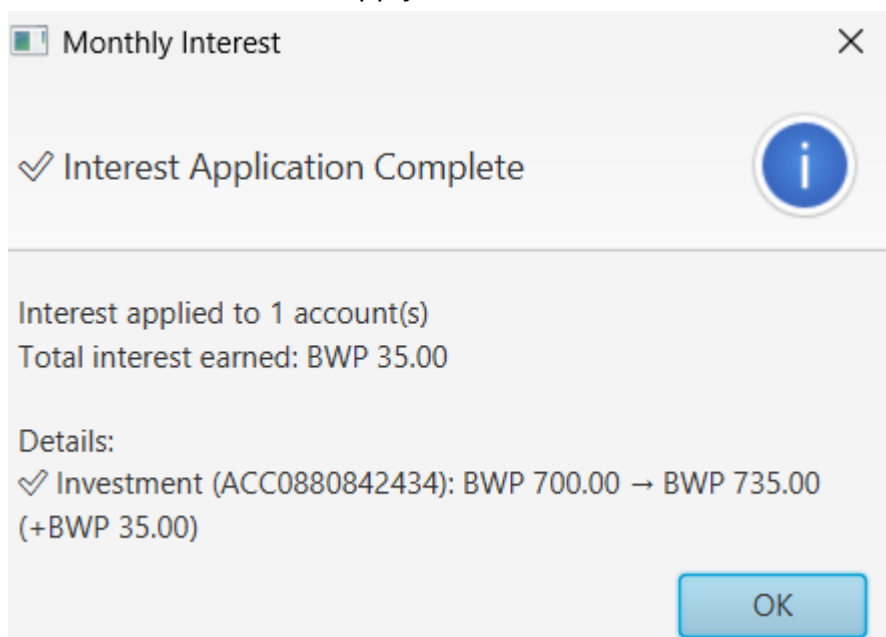
 

Account Type	Account Number	Balance (BWP)	Branch	Interest Rate	Actions
No content in table					

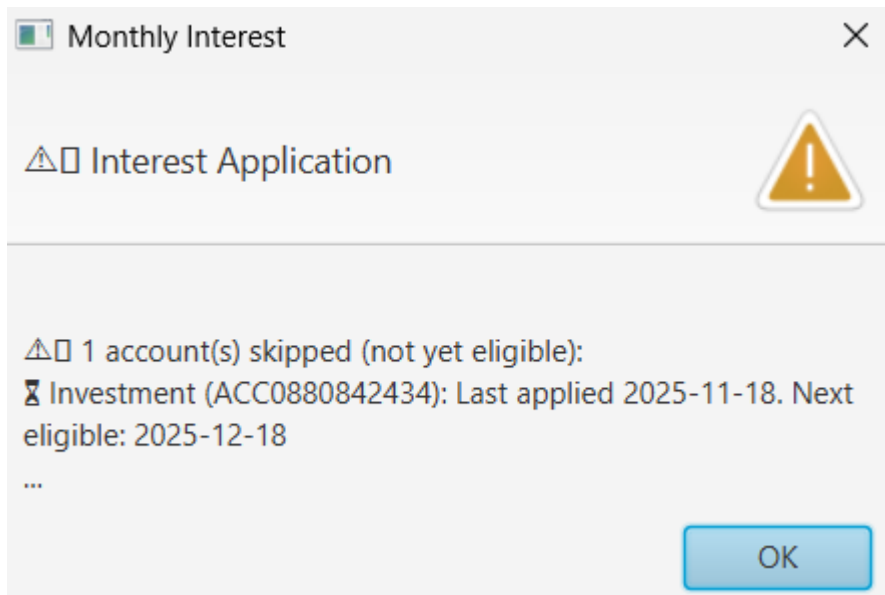
this had its own controller made and a few changes made to code in terms of date format to allow registry of apply interest for any eligible account to happen once in a month after clicking apply monthly interest and although it doesn't allow interest to be applied until the date is a month after the applied interest recorded date.



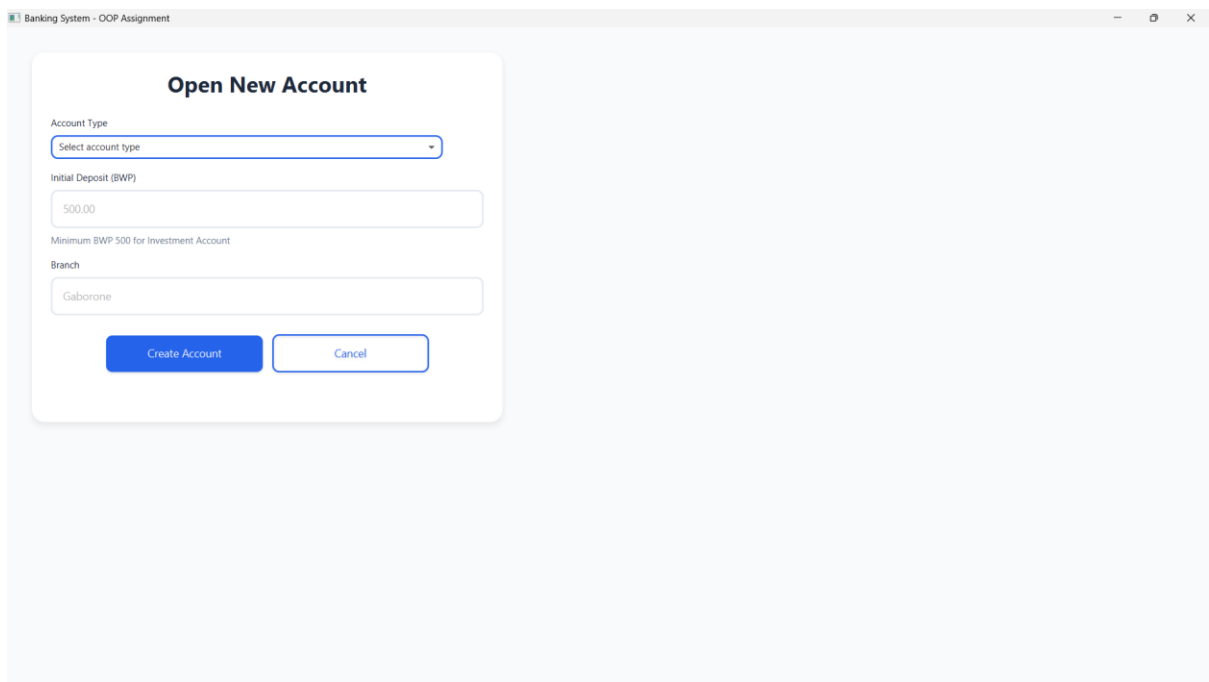
Created account so I can apply interest



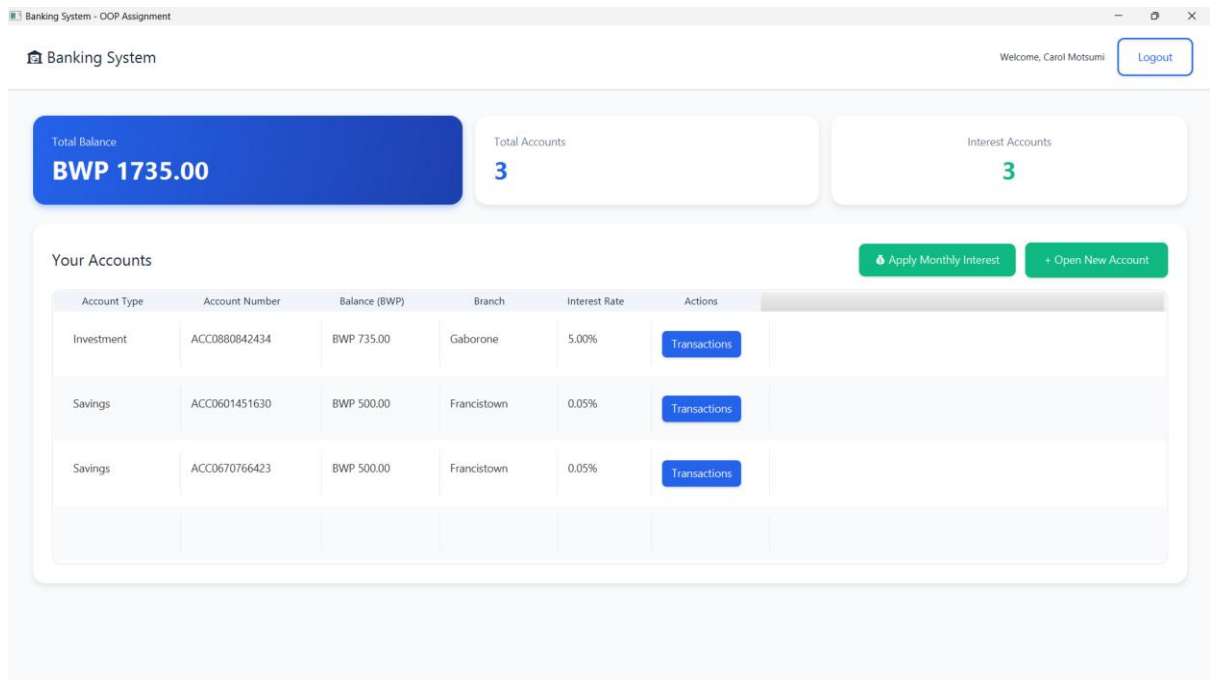
When clicked as a pop up window



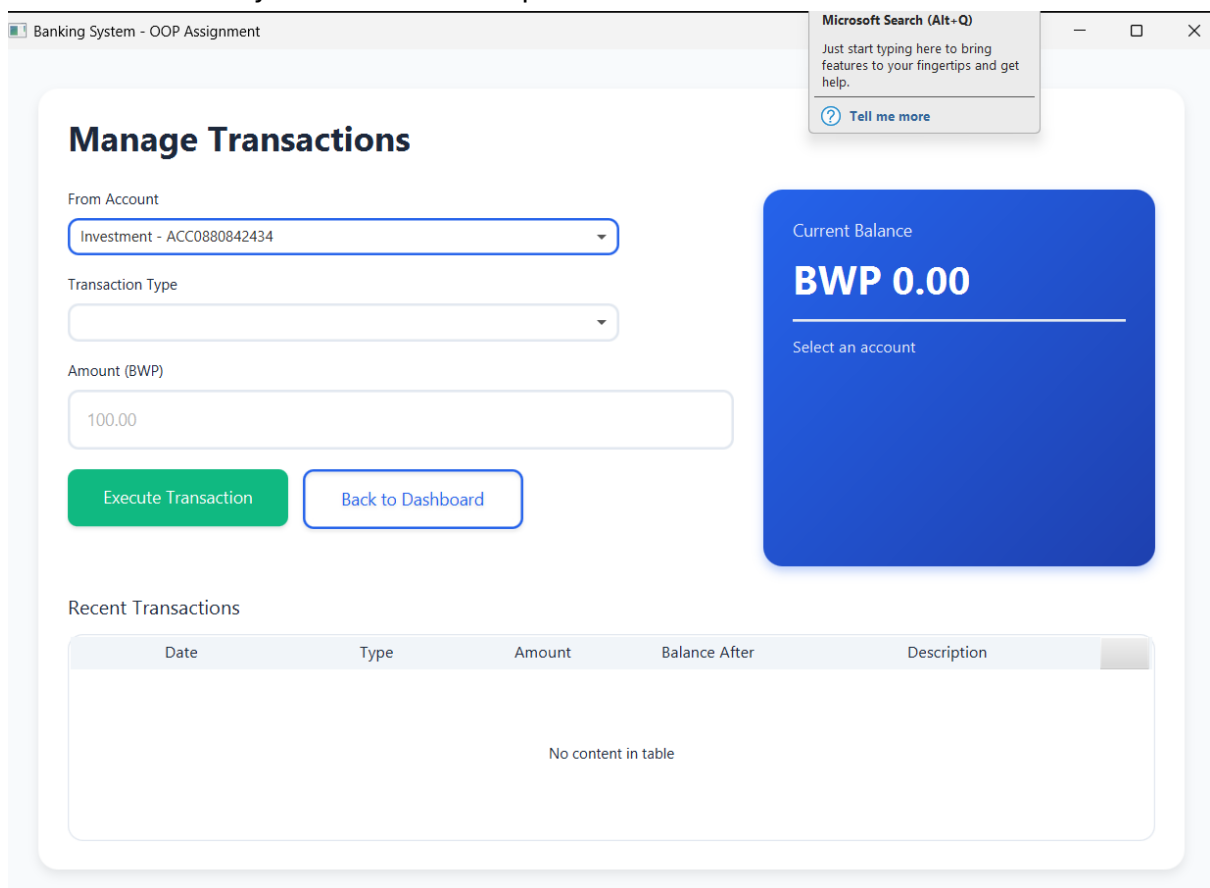
This happens when user tries to abuse or apply interest even when month is not over.



creation works I clicked twice and got



which shows that you can add and deposit



since deposit was shown I'll show transfer and withdraw

Transaction Type

Deposit

Withdraw

Transfer

withdraw

Manage Transactions

From Account

Investment - ACC0880842434

Transaction Type

Withdraw

Amount (BWP)

600

Execute Transaction

Back to Dashboard

Current Balance

BWP 0.00

Select an account

Recent Transactions

Date	Type	Amount	Balance After	Description
No content in table				

result

Banking System - OOP Assignment

Manage Transactions

From Account

Investment - ACC0880842434

Transaction Type

Withdraw

Amount (BWP)

100.00

Execute Transaction

Back to Dashboard

✔ Successfully withdrew BWP 600.00

Recent Transactions

Date	Type	Amount	Balance After	Description
2025-11-18 21:13	WITHDRAWAL	BWP 600.00	BWP 135.00	Withdrawal
2025-11-18 21:06	INTEREST	BWP 35.00	BWP 735.00	Monthly interest applied

Current Balance

BWP 135.00

Investment Account
ACC0880842434
Branch: Gaborone

transfer

Manage Transactions

From Account

Investment - ACC0880842434

Transaction Type

Transfer

Transfer To Account

Amount (BWP)

100.00

Execute Transaction

Back to Dashboard

Error loading target accounts: Investment account requires minimum ...

Recent Transactions

Date	Type	Amount	Balance After	Description
2025-11-18 21:13	WITHDRAWAL	BWP 600.00	BWP 135.00	Withdrawal

Current Balance

BWP 135.00

Investment Account
ACC0880842434
Branch: Gaborone

And it works best as the account cant function unless its over P500 guess that became an error so im gonna update transaction controller and investment account

Banking System - OOP Assignment

Manage Transactions

From Account

Investment - ACC0415341413

Transaction Type

Transfer

Transfer To Account

Savings - ACC0961908868

Amount (BWP)

200

Execute Transaction

Back to Dashboard

✖ Insufficient funds for transfer.

Recent Transactions

Date	Type	Amount	Balance After	Description
No content in table				

Current Balance

BWP 0.00

Select an account

account amounts

Banking System - OOP Assignment

Manage Transactions

From Account

Investment - ACC0415341413

Investment - ACC0415341413 (BWP 945.00)

Savings - ACC0961908868 (BWP 50.00)

Transfer

Transfer To Account

Savings - ACC0961908868

Amount (BWP)

200

Execute Transaction

Back to Dashboard

✖ Insufficient funds for transfer.

Recent Transactions

Date	Type	Amount	Balance After	Description
No content in table				

Current Balance

BWP 0.00

Select an account

so now issue is solved

Banking System - OOP Assignment

Manage Transactions

From Account

Investment - ACC0415341413

Transaction Type

Transfer

Transfer To Account

Savings - ACC0961908868

Amount (BWP)

100.00

Execute Transaction

Back to Dashboard

✔ Successfully transferred BWP 200.00 to Savings (ACC0961908868)

Recent Transactions

Date	Type	Amount	Balance After	Description
2025-11-18 21:41	TRANSFER_OUT	BWP 200.00	BWP 745.00	Transfer to ACC0961908868
2025-11-18 21:39	INTEREST	BWP 45.00	BWP 945.00	Monthly interest applied

Current Balance

BWP 745.00

Investment Account
ACC0415341413
Branch: Gaborone

creation at the end

Create Account

Join our banking system today

Full Name

John Doe

ID Number

BW123456

Email Address

john.doe@example.com

Phone Number

72123456

Create Account

[Back to Login](#)

user would be exampleuser
email [password@gmail.com](#)
password 12345678

got created so lets login



Banking System

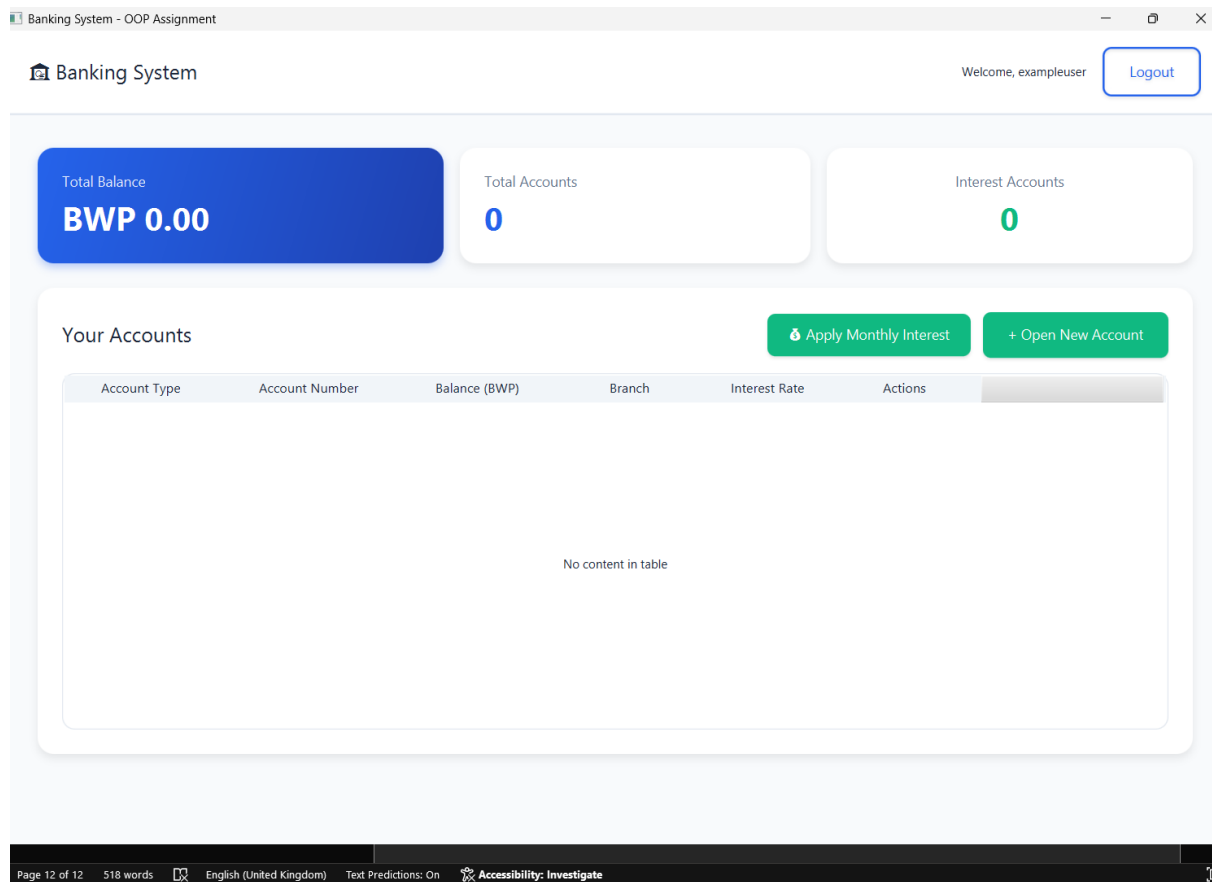
Login to your account

Email Address

Password

Sign In

Create New Account



System fully works at least to meet any functions set and works seamlessly

This is the result f my project and what I could achieve