

ASSIGNMENT SUBMISSION COVER SHEET

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Cohort:	October 2025
Assignment title:	Introduction to Data Analytics
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Programme of Study:	Computer systems engineering
Year of Study:	2025
Intellectual property statement	

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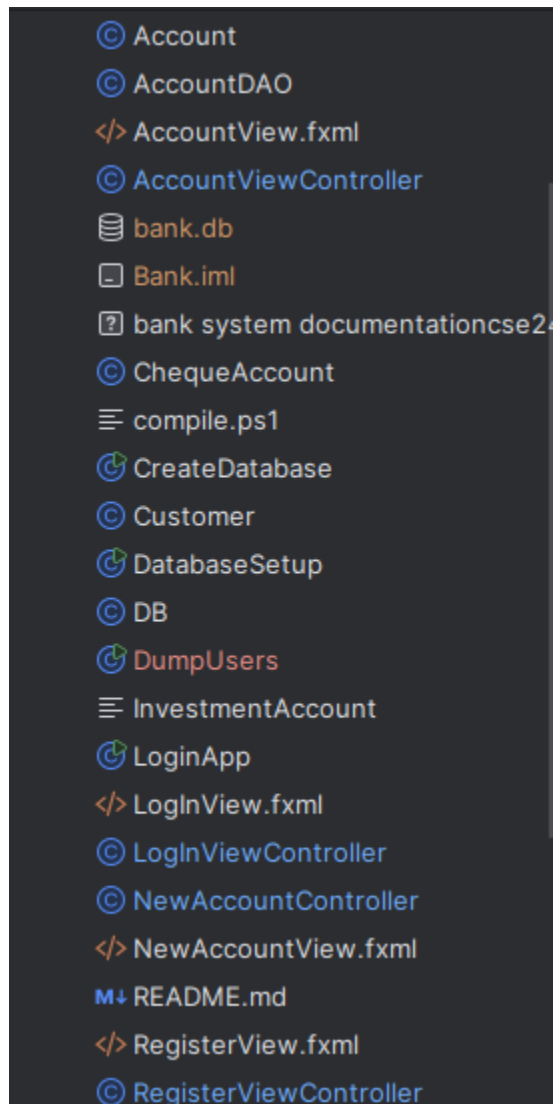
☐ Agree

Signature.....m,mothibedi.....

Date.....11/15/2025.....

MODULE INTERGRATION AND TESTING

All the modules of the banking system were integrated into a working application. JavaFX GUI was connected to the controller classes responsible for handling user actions like logging in, withdrawing, depositing and checking balances and making new accounts.



After integration, the entire navigation from the GUI to the database and back was verified to be in working condition. The GUI successfully receives user input, the controllers process business logic and the DAO classes perform the required SQL updates. The system allows a user to login,

Login

LOGIN

Customer ID

Password

Password

Login

Register

Viewing of account details

Your Accounts

Account Number	Balance	Branch	Customer ID	Account Type
IV001	50.0	Main	CS007	INVESTMENTS
CQ001	8900.0	Main	CS007	CHEQUE

Deposit

Withdraw

New Account

Logout

Perform deposit and withdraw

<h2>Deposit</h2> <p>Select Account:</p> <div>CQ001 — CHEQUE — ...▼</div> <div></div> <div>CHEQUE ▼</div> <p>Current Balance: 9000.00</p> <div>Submit</div> <div>Cancel</div>	<h2>Withdraw</h2> <p>Select Account:</p> <div>CQ001 — CHEQUE — ...▼</div> <div></div> <div>CHEQUE ▼</div> <p>Current Balance: 9000.00</p> <div>Submit</div> <div>Cancel</div>
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Making new accounts and registering a new user

Create Account

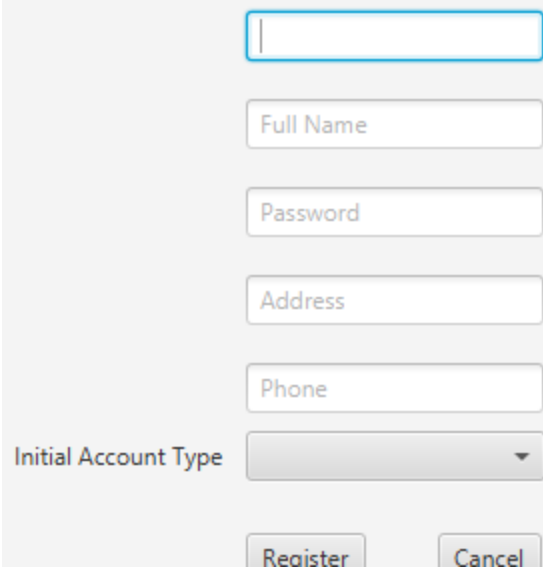
Account Type: SAVINGS ▼

Initial Balance: 811

Create

Cancel

Register New User



A registration form titled "Register New User" with a light gray background. The form contains several input fields and a dropdown menu, all with rounded rectangular borders. At the bottom are two buttons: "Register" and "Cancel".

Full Name

Password

Address

Phone

Initial Account Type

Register Cancel

All integration tests passed successfully. Communication of GUI and databases is functioning consistently as Intended . All banking operations are successful and accurate .