**UNIT TESTING**

Unit testing ensures the correct functioning of individual components of the banking system, including user authentication, account management, transaction management, and reporting features.

**Test Cases**

User Authentication Tests

Test Case 1: Verify user login with valid credentials.

Test Case 2: Verify user login with invalid credentials; for example, wrong password.

Test Case 3: Verify account creation with all required fields.

Test Case 4: Verify account creation with missing fields.

Test Case 5: Verify account creation with already used phone and email.

Account Management Tests

Test Case 1: Verify viewing account information for an existing account.

Transaction Management Tests

Test Case 1: Verify depositing funds into an account.

Test Case 2: Verify withdrawing funds from an account.

Test Case 3: Verify transaction confirmation after deposit.

Test Case 4: Verify transaction confirmation after withdrawal.

Test Case 5: Verify withdrawal with insufficient funds.

Report Generation Tests

Test Case 1: Verify viewing transaction history of the user.

Test Case 2: Verify generating transaction reports in XLSX format.

Test Case 3: Verify that a user cannot view another person’s report without authorization.