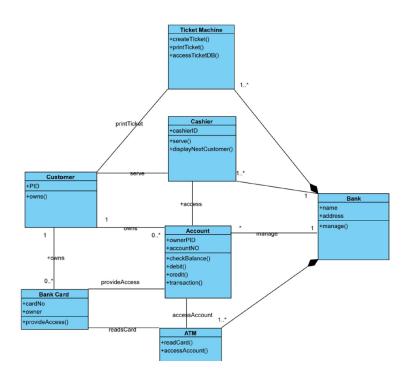
# System Architecture

The system architecture is shown below:



## 1. Open Account 测试 正常需求测试:

id	password	Valid output	Real output
123	123	success	success
重复性测试:			

id	password	Valid output	Real output
123	123	Success (lead to	Success
123	123	duplicate card id)	

边界测试:

id	password	Valid output	Real output
1234		Fail	Fail
	1234	Fail	Fail
-123	123	Fail	Fail
12345	-123	Fail	Fail

## 2. Close Account 测试

正常需求测试:

open account:

id password Valid output Real output

			cess
sword A	Account No	Valid output	Real output
1	L	Success	Success
	word A	word Account No 1	·

open account:

id	password	Valid o	utput Re	al output
123	123	success	su	ccess
close account:				
id	password	Account No	Valid output	Real output
123	123	2	Fail	Fail

open account:

id	password	Valid o	utput l	Real output
123	123	success		
close account:				
id	password	Account No	Valid output	Real output

id	password	Account No	Valid output	Real output
123456	123	1	Fail	Fail

open account:

id	password	Valid output	Real output
123	123	success	success
close account:			

id	password	Account No	Valid output	Real output
123	123456	1	Fail	Fail

边界测试: miss account: close account:

id	password	Account No	Valid output	Real output
	123456	1	Fail	Fail

miss password : close account:

id	password	Account No	Valid output	Real output
123		1	Fail	Fail

# 3. Deposit 测试: open account:

ld	password	Valid output	Real output
123	123	Success & Account	Success
		id	

deposit:

Account No.	Amount	Valid output	Real output
Account id	100	Success	Success

## 边界测试:

## deposit:

Account No.	Amount	Valid output	Real output
Id that no created:	100	Fail	
eg. 10000			Fail
Account id	-1	Fail	Fail
	1	Fail	Fail

#### 4. Withdraw 测试:

open account:

ld	password	Valid output	Real output
123	123	Success & Account	
		id	

#### deposit:

Account No.	Amount	Valid output	Real output
Account id	100	Success	Success

#### withdraw:

Account No.	Password	Amount	Valid output	Real output
Account id	123	100	Success	Success

## 边界测试:

#### withdraw:

Account No.	Password	Amount	Valid output	Real output
Account id	123	1000	Fail	Fail
Account id	123	-1	Fail	Fail

#### 2. Test\_UI:

test\_main.m:

T1: Unit Test:

T1.1: Open Account Unit Test

T1.1.1: Test normal:

function test\_OpenAccount\_normal(testCase)

end

	Test Case T1.1.1
Input	testCase.App = UI_Clerk_exported;
	db = Banking_system;
State	card_id = db.db_account('nextCardID') - 1;
Expected Output	Account added successfully.

• Test coverage: 1/1=100%

• Test result: 1 passed

T1.1.2: test\_OpenAccount\_duplicate

function test\_OpenAccount\_normal(testCase)

end

	Test Case T1.1.2
Input	testCase.App = UI_Clerk_exported;
	db = Banking_system;
State	card_id = db.db_account('nextCardID') - 1;
Expected Output	Account added successfully.

Test coverage: 1/1=100%Test result: 1 passed

T1.1.3: test\_OpenAccount\_missPwd

function test\_OpenAccount\_missPwd (testCase)

end

	Test Case T1.1.3
Input	testCase.App.Identity_Input = 123
State	testCase.App.Identity_Input = 123
Expected Output	Password cannot be emtpy

Test coverage: 1/1=100%Test result: 1 passed

T1.1.4: test\_OpenAccount\_missAccount function test\_OpenAccount\_missAccount (testCase) end

	Test Case T1.1.4
Input	testCase.App. PW_Input = 123
State	testCase.App. PW_Input = 123
Expected Output	Id cannot be emtpy

Test coverage: 1/1=100%
Test result: 1 passed
T1.2: Close Account Unit Test

T1.2.1: test\_CloseAccount\_normal function test\_CloseAccount\_normal (testCase) end

	Test Case T1.2.1
Input	testCase.press(testCase.App.open_account);

	testCase.App.Identity_Input = 123;
	testCase.App.PW_Input = '123'
State	New test account
Expected Output	Account removed successfully.

Test coverage: 1/1=100%Test result: 1 passed

T1.2.2: test\_CloseAccount\_WNum

function test\_CloseAccount\_WNum (testCase)

end

	Test Case T1.2.2
Input	testCase.press(testCase.App.open_account);
	testCase.App.Identity_Input = 123;
	testCase.App.PW_Input = '123'
State	New test account
	Wrong input remove account
Expected Output	Account removed Failed

• Test coverage: 1/1=100%

• Test result: 1 passed

T1.2.3: test\_CloseAccount\_WAccount

function test\_CloseAccount\_WAccount (testCase)

end

	Test Case T1.2.3
Input	Account is not your account
State	Wront account
Expected Output	Account removed Failed

Test coverage: 1/1=100%Test result: 1 passed

T1.2.4: test\_CloseAccount\_WPwd

function test\_CloseAccount\_WPwd (testCase)

end

	Test Case T1.2.4
Input	Wrong password
State	Input error
Expected Output	Account removed Failed

• Test coverage: 1/1=100%

• Test result: 1 passed

T1.2.5: test\_CloseAccount\_missAccount

function test\_CloseAccount\_missAccount (testCase)

end

	Test Case T1.2.5
Input	Missing account
State	Input error
Expected Output	Id cannot be emtpy

Test coverage: 1/1=100%Test result: 1 passed

T1.2.6: test\_CloseAccount\_missPwd function test\_CloseAccount\_missPwd (testCase)

end

	Test Case T1.2.6
Input	Missing password
State	Input error
Expected Output	Password cannot be emtpy

Test coverage: 1/1=100%Test result: 1 passed

#### T1.3: Deposit Unit Test

T1.3.1: test\_Deposit\_normal function test\_Deposit\_normal (testCase) end

	Test Case T1.3.1
Input	Input deposit normal info
State	Deposit money
Expected Output	Money added successfully

Test coverage: 1/1=100%Test result: 1 passed

T1.3.2: test\_Deposit\_WAccount function test\_Deposit\_WAccount (testCase) end

	Test Case T1.3.2
Input	Input wrong info
State	Withdraw money
Expected Output	Money add failed

Test coverage: 1/1=100%Test result: 1 passed

#### T1.4: Withdraw Unit Test

T1.4.1: test\_Withdraw\_normal function test\_Withdraw\_normal(testCase) end

	Test Case T1.4.1
Input	Input withdraw normal info
State	Input error
Expected Output	Money withdrawn successfully

Test coverage: 1/1=100%Test result: 1 passed

#### T1.5: Transfer Unit Test

T1.5.1: test\_Transfer\_normal function test\_Transfer\_normal (testCase) end

	Test Case T1.5.1
Input	Input transfer normal info
State	Input successfully
Expected Output	Money transfered successfully

Test coverage: 1/1=100%Test result: 1 passed

#### T1.6: change password Unit Test

T1.6.1: test\_changepwd\_normal function test\_changepwd\_normal (testCase) end

	Test Case T1.6.1
Input	Input change password normal info
State	Input successfully
Expected Output	Password changed successfully.

Test coverage: 1/1=100%Test result: 1 passed

T1.7: ATM Unit Test

T1.7.1: test\_ATM\_normal function test\_ATM\_normal (testCase)

	Test Case T1.7.1
Input	Input ATM normal info
State	Input successfully
Expected Output	Money added successfully

Test coverage: 1/1=100%Test result: 1 passed

T1.7.2: test\_ATM\_withdraw function test\_ATM\_withdraw (testCase) end

	Test Case T1.7.2
Input	Input ATM normal info
State	Input successfully
Expected Output	Money withdraw successfully

Test coverage: 1/1=100%Test result: 1 passed

T1.8: getTicket Unit Test
T1.8.1: test\_ATM\_withdraw
function get\_ticket\_normal (testCase)
end

	Test Case T1.8
Input	No input
State	Get ticket number
Expected Output	Ticket number is **

Test coverage: 1/1=100%Test result: 1 passed