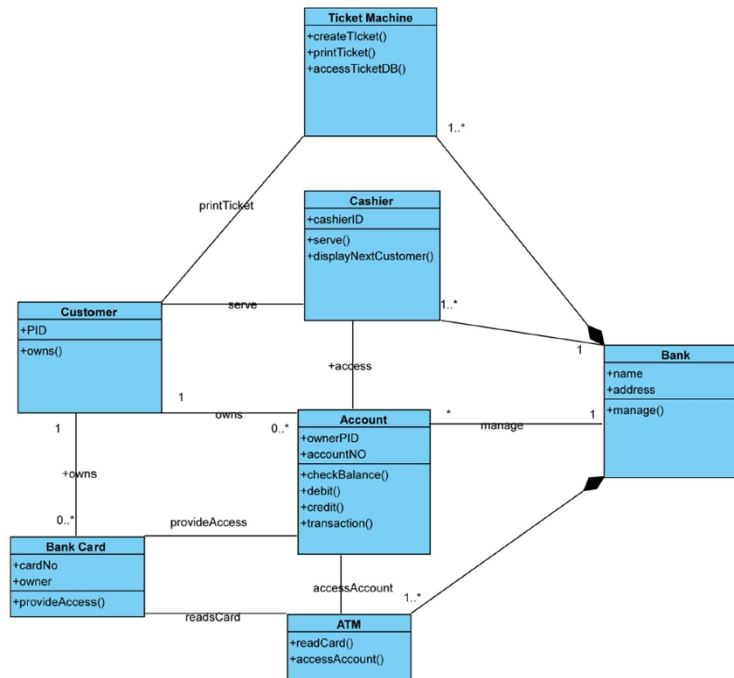


## System Architecture

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 duplicate card id) | Success     |
| 123 | 123      |                                     |             |

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 |
|----|----------|--------------|-------------|
|----|----------|--------------|-------------|

|            |     |         |         |
|------------|-----|---------|---------|
| <b>123</b> | 123 | success | success |
|------------|-----|---------|---------|

close account:

| id  | password | Account No | Valid output | Real output |
|-----|----------|------------|--------------|-------------|
| 123 | 123      | 1          | Success      | Success     |

open account:

| id         | password | Valid output | Real output |
|------------|----------|--------------|-------------|
| <b>123</b> | 123      | success      | success     |

close account:

| id  | password | Account No | Valid output | Real output |
|-----|----------|------------|--------------|-------------|
| 123 | 123      | 2          | Fail         | Fail        |

open account:

| id         | password | Valid output | Real output |
|------------|----------|--------------|-------------|
| <b>123</b> | 123      | success      |             |

close account:

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

open account:

| id         | password | Valid output | Real output |
|------------|----------|--------------|-------------|
| <b>123</b> | 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:

| Id         | password | Valid output         | Real output |
|------------|----------|----------------------|-------------|
| <b>123</b> | 123      | Success & Account id | Success     |

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:<br>eg. 10000 | 100    | Fail         | Fail        |
| Account id                       | -1     | Fail         | Fail        |
|                                  | 1      | Fail         | Fail        |

4. Withdraw 测试：

open account:

| Id  | password | Valid output            | Real output |
|-----|----------|-------------------------|-------------|
| 123 | 123      | Success & Account<br>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: