Java Atm Application Test Plan
CSE 361 Spring 2018
Group 9

1. **Introduction**
   The purpose of this document is to document the test cases and testing strategy used to test the functionality of our system. This testing is to make sure that all outputs are correct with what is specified within the functionality segment of the requirements specification document. This paper will contain three sections. First will be the testing requirements as to test the correctness of the output as specified in the design document. The second section describes the test case, which functionality it is testing, and the expected output. The third section is the recorded results of the test cases.
2. **Testing Requirement**
   a. Application Startup
      i. Functionality 3.2.1.1
         Launch the application.
   b. Checking Credentials
      i. Functionality 3.2.1.2
         1. Try to validate with no input.
         2. Try to validate with no pin and a valid card number.
         3. Try to validate with an invalid card number with a valid pin.
         4. Try to validate with a valid card number and an invalid pin.
         5. Try to validate with a valid pin with a card that does not match.
         6. Validate with a valid card number and pin.
   c. WIthdraw
      i. Functionality 3.2.1.3
         1. Withdraw an amount more than that of the account.
         2. Withdraw from an account that does not exist.
         3. Withdraw an amount greater than that which is contained in the machine.
         4. Withdraw an amount less than that of a valid account.
         5. Withdraw a negative value.
   d. Transfer
      i. Functionality 3.2.1.4
         1. Transfer between two account types when only one is valid.
         2. Transfer more than the amount of an account to another account.
         3. Transfer less than the amount of the account to another account.
   e. Deposit
      i. Functionality 3.2.1.5
         1. Depositing a negative amount.
         2. Depositing into an account that doesn't exist.
         3. Depositing into an account that does exist.
3. **Test Cases**
   The following is the expected output of the test cases listed above.The purpose and setup of each test has been outlined. The expected output must be observed for the test case to pass.

a. Application Startup

Purpose: Test the launching of the application.

Setup: Launching the application by running it on the simulator.

    i.   Test 1

    Requirement tested: 2.a.i

Input	Expected output
Launch the Application	The user interface is displayed

b. Checking Credentials

Purpose: Testing the validation functional requirement.

Setup: Launch the application and input card number and pin information.

    i.   Test 2

    Requirement tested: 2.b.i.1

Input Field	Input Value	Information Accepted	Expected output
Card Number		true	-
PIN		false	Error message

    ii.   Test 3

    Requirement tested 2.b.i.2

Input Field	Input Value	Information Accepted	Expected output
Card Number	0321 3213 4313 5543	true	-
PIN		false	Error message

    iii.   Test 4

    Requirement tested 2.b.i.3

Input Field	Input Value	Information Accepted	Expected output
Card Number	3333 3333 3333 3333	true	-
PIN	3214	false	Error message

    iv.   Test 5

    Requirement tested 2.b.i.4

Input Field	Input Value	Information Accepted	Expected output
Card Number	0321 3213 4313	true	-

	5543		
PIN	1111	false	Error message

v. Test 6

Requirement Tested 2.b.i.5

Input Field	Input Value	Information Accepted	Expected output
Card Number	0321 3213 4313 5543	true	-
PIN	3534	false	Error message

vi. Test 7

Requirement Tested 2.b.i.6

Input Field	Input Value	Information Accepted	Expected output
Card Number	0321 3213 4313 5543	true	-
PIN	3214	false	Confirmation message

c. Withdraw

Purpose: Test the withdraw functional requirements.

Setup: After being a validated user select the withdraw function.

i. Test 8

Requirement tested 2.c.i.1

Valid account	Amount	Expected output
True	20000000	Error message

ii. Test 9

Requirement tested 2.c.i.2

Valid account	Amount	Expected output
false	20	Error message

iii. Test 10

Requirement tested 2.c.i.3

Valid account	Amount	Expected output
True	2000	Error message

iv. Test 11

Requirement tested 2.c.i.4

Valid account	Amount	Expected output
True	20	Amount left in account

    v.   Test 12

Requirement tested 2.c.i.5

Valid account	Amount	Expected output
True	-20	Error message

d. Transfer

Purpose: Test the transfer functional requirements.

Setup: After validating the user select the transfer option.

    i.   Test 13

Requirement tested 2.d.i.1

Account Type	Valid account	Amount	Transfering To	Expected Output
Checking	True	2000	False	-
Saving	False	-	True	Error message

    ii.   Test 14

Requirement tested 2.d.i.2

Account Type	Valid account	Amount	Transfering To	Expected Output
Checking	True	200000	False	-
Saving	True	-	True	Error message

    iii.   Test 15

Requirement tested 2.d.i.3

Account Type	Valid account	Amount	Transfering To	Expected Output
Checking	True	200	False	-
Saving	True	-	True	200 has been added to your saving account from your checking

				account

e. Deposit

Purpose: Test the deposit functional requirements.

Setup: After validating the user select the deposit function

   i.   Test 16

Requirement tested 2.e.i.1

Valid Account	Amount	Expected output
True	-200	Invalid Transaction

   ii.   Test 17

Requirement tested 2.e.i.2

Valid Account	Amount	Expected output
False	200	Invalid Transaction

   iii.   Test 18

Requirement tested 2.e.i.3

Valid Account	Amount	Expected output
True	200	200 has been added to your account.