

## 6. Test Plan and Test Cases

### 6.1 Introduction

Test plan is designed to advise the scope, approach and strategy of testing an application, to identify risks and issues, to define test criteria and test environment, and to identify the type of testing to be performed on the Application under Test (AUT).

### 6.2 Test Plan

Function Requirements before authorization:

ID	Description	Input	Processing	Output
1	Initialize parameters	ATM is initialized	Storing the parameters.	Parameters are set.
2	If no cash card is in the ATM the system should display initial display			
3	If the ATM is running out of money no card should be accepted An error message is Displayed,	A card is entered	The amount of cash is less than balance	Display an error message. Return cash card
4	The ATM has to check if the entered card is a valid cash card	The ATM has to check if the entered card is a valid cash card	Check if it is a valid cash card It will be valid if -the information on the card can be read. -It is not expired	Display error messages and return a cash card if it is invalid.
5	If the cash card is valid the ATM should read the serial number and bank code,	Valid cash card	Read the serial number	Initiate authorization dialog
6	The serial number should be logged	Serial number from cash card	Log the number	Upload login
7	Authorization dialog The user is requested to enter his password The ATM checks the bank code and password with the bank computer	Password from user bank code from cash card	Send serial number and password to bank computer receive response from bank	Accept or reject authorization from bank
8	Different negative answers from bank computer for authorization dialog	Response from bank or authorization dialog: --"bad password" if the password was wrong --"bad bank code" if the cash card of the bank is not supported by the ATM. --"bad account" if there are problems with the account	If the ATM gets any of these messages from the bank computer, the card will be ejected and the user will get the relevant error message.	Card is ejected and an error message is displayed.
9	If password and serial number are ok the authorization process is finished,	The ATM gets accept from the bank computer from authorization process.	Finishing authorization	Start transaction dialog

### Function Requirements after authorization:

ID	Description	Input	Processing	Output
10	The kind of transactions the ATM offers is: withdrawal	Authorization successfully completed Enter the amount to withdraw	Amount entered is compared with main account.	Amount of money to be dispensed is displayed
11	Initial withdrawal sequence. If it is too much withdrawal redo the transaction	Customer has entered the amount of money	Error if the amount is greater than m	Start transaction or re initiate transaction dialog if the amount is not within the pre dened transaction policy
12	Perform transaction	Initial withdrawal sequence successful	Send request to the bank computer	Output Wait for response from the bank computer
13	If the transaction is successful the money is dispensed	ATM gets message transaction succeeded from the bank computer	ATM prints receipt updates and ejects the card Dialog Customer should take the card	After the Customer has taken the card the money is dispensed
14	If the money is dispensed the amount is logged	The number of bills requested is dispensed to the user	Log the amount of money against the serial number of the card	Amount logged together with the serial number Response sent to bank for money dispensed
15	If the transaction is not successful an error message should be displayed the card should be ejected	ATM gets message transaction not successful from the bank computer	ATM displays error message Dialog. Customer should take the card	Eject card

### 6.3 Test Case

1. Check user entered valid name
2. Check user PIN
2. Check user entered correct options for withdraw and deposit
4. Check the user current account balance