

## Test plan for ATM Bank Machine

### Withdrawal

1. Verify that a user is able to choose which of their accounts they'd like to make a withdrawal from.
2. Verify that a user is able to withdraw cash from their account with an amount less than or equal to their account balance
3. Verify that the amount of cash dispensed is equal to the amount entered during the transaction
4. Verify that after making a successful withdrawal, the account balance is reduced by the amount entered for the withdrawal
5. Verify that after beginning a withdrawal transaction, the user has the option to cancel the transaction until it is complete
6. Verify that if a user attempts to withdraw cash from their account with an amount greater than their account balance, an error message is displayed and the user is able to correct this
7. Verify that if a user attempts to withdraw cash below the minimum required an error message is displayed and the user is able to correct this
8. Verify that if the user has any ATM transaction limits in place, an error message is displayed when the user attempts to withdraw greater than the limits
9. Verify that if the ATM machine runs out of cash during the withdrawal, an error message is displayed to the user.
10. Verify that if a power outage occurs during the transaction, the transaction is automatically cancelled

### Card reader

1. Verify that when a valid card is placed in the card reader, the card is accepted and the user is asked to enter their PIN
2. Verify that placing an invalid card in the card reader provides an error message to the user and returns the card

### Login/Authentication

1. Verify that entering a correct PIN logs in the user and they have access to their account details and balances
2. Verify that entering an incorrect PIN provides the user with an error message and the user does not have access to their account details

### Security

1. Verify that when entering a PIN, the PIN is masked on the ATM's display/screen

### Exiting

1. Verify that once the user has ended their session with the ATM machine, they are logged out and their card is returned