**Login**

|  |  |
| --- | --- |
| Actor Action | System Response |
|  | 1. System prompts the user to enter Account Number. |
| 2. User enters Account Number | 3. System prompts the user to enter PIN. |
| 4. User enters PIN | 5. Login details are verified, the user can now access their account transactions. |
| Alternative course:  4a: Invalid information entered: System displays “invalid credentials” error and user is sent back to step 1 to re-enter their login details. | |

Non Functional Requirement: Session Manager.

If the User doesn’t enter any details into the system within the 4.5 seconds then they are logged out.

**Logout**

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. User on main menu, selects EXIT. | 2. System logs out the user. |

**Withdraw**

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. User selects the Withdraw transaction. | 2. System prompts the User to enter the amount they would like to withdraw. |
| 2. User enters amount they want to withdraw. | 3. System checks requested amount to be withdrawn against balance on account then debits the account accordingly. |
|  | 4. System displays the transaction details and writes them out to the Log |
| Alternative course.  3a. The account doesn’t have enough money to withdraw the requested amount and returns the “Insufficient cash in your account” error. | |

Non Functional Requirement: Session Timeout.

If the User doesn’t enter any details into the system within the 4.5 seconds then they are logged out.

Log.

A record of the transaction is recorded in a Log in order to maintain account security.

**Show Balance**

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. User selects Show Balance. | 2. The System displays the remaining balance on the account |

Non Functional Requirement: Session Timeout.

If the User doesn’t enter any details into the system within the 4.5 seconds then they are logged out.

**Transfer**

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. User selects the Transfer transaction. | 2. System prompts the User to enter the Account Number of the account that the money is being transferred to. |
| 3. User enters the Account Number of the account that the money is being transferred to. | 4. System to enter the amount to be transferred, or cancel the transaction. |
| 5. User enters transaction amount. | 6. The System debits and credits the accounts accordingly, displays the details of the transfer and writes them out to a Log |
| Alternative course.  4a. The User decides to cancel the transaction and is asked to enter the details of the transfer again.  6a. There is insufficient funds in the account that is trying to do the transfer, the “Insufficient cash in your account” error message is shown, and the user is prompted to enter the details of the transaction again.  6a. The user has entered an incorrect account number for the destination account, the “Invalid Account Number. Try again.” Message is shown and the user is prompted to enter the details of the transaction again. | |

Non Functional Requirement: Session Timeout.

If the User doesn’t enter any details into the system within the 4.5 seconds then they are logged out.

Log.

A record of the transaction is recorded in a Log in order to maintain account security.

**Print Statement**

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. User selects Print Statement. | 2. The System displays all the transactions completed using the logged in account. |

Non Functional Requirement: Session Timeout.

If the User doesn’t enter any details into the system within the 4.5 seconds then they are logged out.

**Select Database Type**

|  |  |
| --- | --- |
| Actor Action | System Response |
| 1. Manager selects which database type to have the account data stored as. The manager has the choice between comma separated and tab separated. | 2. The System overwrites the database type and replaces it with the managers selection. |

Non Functional Requirement: Session Timeout.

If the User doesn’t enter any details into the system within the 4.5 seconds then they are logged out.