

Use Case Model Generated from Banking Automation Product Line

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Use cases

Use case UC01

- **Name:** User transactions.
- **Description:** It describes the supported transactions with the banking system.

Scenario SC01

Description: This scenario allows a customer to withdraw money from a previously selected account.

From steps: START

To steps: END

User Action	Condition	System Response
The customer selects the withdraw option.	-	The system creates a new withdrawal and asks for the amount to withdraw.
The customer fills in the amount to withdraw.	-	The system retrieves the current balance of the selected account.
-	-	The system verifies that the requested amount is not greater than current balance plus U\$ 10000.00. @authentication
-	-	The system asks the customer to put her finger in the fingerprint reader
The customer puts her finger in the fingerprint reader device.	-	The system authenticates the customer, according to the analysis of the captured fingerprint data.
-	-	The transaction handler starts the processing of a transaction.
-	-	The bank system withdraws the amount from the account.
-	-	The cash money is provided to the customer.
-	-	An entry with the transaction information is logged to the overview of the completed transactions of the customers account.
-	-	The transaction is removed from the transaction queue.

Scenario SC03

Description: This scenario allows a customer to buy stocks.

From steps: START

To steps: END

User Action	Condition	System Response
The customer selects Buy Stock option.	-	The system asks the customer to inform the stock code (ISIN).
The customer informs the ISIN code.	-	The system verifies that the ISIN code is valid.
-	-	The system asks for the amount of stocks involved.
The customer gives the amount.	-	The system verifies that the requested amount of stocks is valid. @authentication
-	-	The system asks the customer to put her finger in the fingerprint reader
The customer puts her finger in the fingerprint reader device.	-	The system authenticates the customer, according to the analysis of the captured fingerprint data.
-	-	The bank system creates a new pending order and sends it to the stock market.
-	-	The stock market confirms the receipt of the order.
-	-	The bank system adds the order to the pending orders of the account and notifies the actor.

Scenario SC02

Description: This scenario allows a customer to transfer money from a previously selected account to a destination account.

From steps: START

To steps: END

User Action	Condition	System Response
The customer selects the transfer option.	-	The system asks the customer to inform the destination bank and account.
The customer informs the destination bank and account.	-	The system asks for the amount to transfer.
The customer fills in the amount to transfer.	-	The system retrieves the current balance of the selected account.
-	-	The system verifies that the requested amount is not greater than current balance plus U\$ 10000.00. @authentication
-	-	The system asks the customer to put her finger in the fingerprint reader
The customer puts her finger in the fingerprint reader device.	-	The system authenticates the customer, according to the analysis of the captured fingerprint data.
-	-	The transaction handler starts the processing of a transaction.
-	-	The bank system withdraws the transfer amount from the originating account.
-	-	The bank system requests a transfer from the bank's own account to the account of the bank of the destination account.
-	-	An entry with the transaction information is logged to the overview of the completed transactions of the customers account.
-	-	The transaction is removed from the transaction queue.