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| element | details |
| name | Sign up |
| ID | UC\_001 |
| description | a client wants to sign up in the system to be able to send/receive money between different entities |
| actor | client |
| Organizational benefits | Increased financial flows in banks by 20% due to the features that the application offers |
| frequency of use | for each client, this use case must happen for one time |
| precondition | Client must have a valid email |
| Postcondition | Client has an account on the system |
| Main course | Ac1:   1. Client enters his name 2. Client enters his email 3. Client enters a username 4. Client enters a password 5. Client enters his SSN 6. Click sign up 7. System sends a message to the entered email with a link to verify the sign up 8. Client opens the link and verify the signup |
| Alternative course | AC2: client enters a used username   1. A message appears say “this username is used”   AC3: client enter used email   1. A message appears say “this email is used”   AC3: client enters an invalid username   1. A message appears say “this username is invalid”   AC3: client enter invalid email   1. A message appears say “this email is invalid” |
| Exception courses | EX1:no internet connection   1. Client receive an message says “No connection is found, try again in another time” |

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| element | details |
| name | Reset password |
| ID | UC\_002 |
| description | a client wants to reset his account password to be able to login |
| actor | client |
| Organizational benefits | Increased financial flows in banks by 20% due to the features that the application offers |
| frequency of use | 5%, as it is rare that people forget important things like his bank accounts password |
| precondition | Client must have an account (UC\_001) |
| Postcondition | Client change his account password |
| Main course | Ac1:   1. Client enters his email 2. Client receive a message on his email with a URL to reset password 3. Client open the URL, enter the new password then click reset |
| Alternative course | AC2: client enters an unregistered email   1. A message appears say “this email is unregistered” and ask the client to change the email |
| Exception courses | EX1: client has no access to his email   1. Client should contact with technical support, prove that he/she ia the owner of the account 2. The support sends him/her an URL to update the email |

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| element | details |
| name | login |
| ID | UC\_003 |
| description | a client wants to login to his account |
| actor | client |
| Organizational benefits | Increased financial flows in banks by 20% due to the features that the application offers |
| frequency of use | This is the main process for all the other use cases, so its frequency of use is 100% |
| precondition | Client must have an account (UC\_001) |
| Postcondition | Client are logging in to his account |
| Main course | Ac1:   1. Client enters his username 2. Client enters his password 3. Press login |
| Alternative course | AC2: client enters an unregistered username of wrong password   1. A message appears say “wrong email or password” and ask the client to try again |
| Exception courses | EX1: the account is opened in another device   1. A message appears say “this account is opened in another device” and ask the client if he/she want to logout from the other device 2. Client presses ok 3. Receive a message on his email containing an URL 4. Open the URL to logout from the other device 5. Return to the main course |

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| element | details |
| name | Link an account |
| ID | UC\_004 |
| description | a client wants to link his bank account to his account |
| actor | client |
| Organizational benefits | Increased financial flows in banks by 20% due to the features that the application offers |
| frequency of use | It is almost 15% |
| precondition | Client must login first (UC\_003) |
| Postcondition | Client are logging in to his account |
| Main course | Ac1:   1. Client choose the bank he/she is in 2. Client enters his bank account number 3. Client receives a message from the bank containing a URL to verify the process 4. Open the URL and verify the process |
| Alternative course | AC2: client enters an invalid or unregistered account number   1. A message appears say “invalid account number” and ask the client to try again |
| Exception courses | EX1: the account’s owner data does not match with the data in the account   1. A message appears say “this account does not belong to you, please link another account” |

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| element | details |
| name | Send to a bank account |
| ID | UC\_005 |
| description | a client wants to send money to a bank account |
| actor | client |
| Organizational benefits | Increased financial flows in banks by 20% due to the features that the application offers |
| frequency of use | It is almost 27% |
| precondition | Client must login first (UC\_003) and choose an account |
| Postcondition | Client’s balance is updated |
| Main course | Ac1:   1. Client enter the bank account number of the receiver 2. Client enter the amount of money he wants to send 3. Press send then receive a message with the new balance |
| Alternative course | AC2: client enters an invalid or unregistered account number   1. A message appears say “invalid account number” and ask the client to try again   AC3: client enters amount of money less than he has   1. A message appears say “you do not have enough money on your account” and ask the client to try again |
| Exception courses | EX1: client enter negative amount of money   1. A message appears say “enter positive amount of money” |

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| element | details |
| name | Send to another client |
| ID | UC\_006 |
| description | a client wants to send money to another client |
| actor | client |
| Organizational benefits | Increased financial flows in banks by 20% due to the features that the application offers |
| frequency of use | It is almost 17% |
| precondition | Client must login first (UC\_003) and choose an account |
| Postcondition | Client’s balance is updated |
| Main course | Ac1:   1. Client enter the other client account number 2. Client enter the amount of money he wants to send 3. Get the bank account number of the other user 4. Exec UC\_005 |
| Alternative course | AC2: client enters an unregistered account number in the system   1. A message appears say “this account wasn’t found” and ask the client to try again |
| Exception courses | EX1: client enter negative amount of money   1. A message appears say “enter positive amount of money” |

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| element | details |
| name | Send to a wallet cash |
| ID | UC\_007 |
| description | a client wants to send money to a wallet cash |
| actor | client |
| Organizational benefits | Increased financial flows in banks by 20% due to the features that the application offers |
| frequency of use | It is almost 5% |
| precondition | Client must login first (UC\_003) and choose an account |
| Postcondition | Client’s balance is updated |
| Main course | Ac1:   1. Client enter the mobile number of the wallet cash 2. Client enter the amount of money he wants to send 3. Press send then receive a message with the new balance |
| Alternative course | AC2: client enters an invalid mobile number   1. A message appears say “invalid mobile number” and ask the client to try again   AC3: client enters amount of money less than he has   1. A message appears say “you do not have enough money on your account” and ask the client to try again |
| Exception courses | EX1: client enter negative amount of money   1. A message appears say “enter positive amount of money” |

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| element | details |
| name | Ask for sending |
| ID | UC\_008 |
| description | a client wants another client to send him a money |
| actor | client |
| Organizational benefits | Increased financial flows in banks by 20% due to the features that the application offers |
| frequency of use | It is almost 50% |
| precondition | Client must login first (UC\_003) and choose an account |
| Postcondition | Client’s balance is updated |
| Main course | Ac1:   1. Client enter the other client account number 2. Client enter the amount of money he wants to receive 3. The other client accepts the request 4. Exec UC\_006 5. receive a message with the new balance |
| Alternative course | AC2: client enters an invalid or unregistered account number   1. A message appears say “invalid account number” and ask the client to try again   AC3: the other client refuses the request   1. A message appears say “the other client refuses the request” and ask the client to try another client |
| Exception courses | EX1: client enter negative amount of money   1. A message appears say “enter positive amount of money” |

