**Use Cases - Banking Application - HW05**

**Customer Wants to Create a New Account with the Bank**

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| # | User’s Actions | System’s Response |
| 1 | User issues command to “Add Account” in from the main menu options. |  |
| 2 |  | System prompts for the name |
| 3 | User enters the name | If no name is entered process terminates |
| 4 |  | System prompts for the type of account |
| 5 | User enters the type of account | If an invalid option is selected user prompted again |
| 6 |  | System attempts to add the chosen type of account to the user that is stored under the provided name value. If it is found the account is created and the new account number is displayed for the user to see. **Otherwise the user is systematically prompted for information** needed register with the bank first input being the address. The program returns a can’t create account message if something goes wrong. |
| 7 | User inputs address | If no address is entered process terminates |
| 8 |  | System prompts for telephone # |
| 9 | User inputs telephone # | If no telephone #is entered process terminates |
| 10 |  | System prompts for age of customer |
| 11 | User inputs age | If age seems too low or high the user is notified and prompted to enter the value again |
| 12 |  | System prompts for the type of customer the user is |
| 13 | User inputs his/her type | If an invalid option is selected the user is prompted to reenter the value |
| 14 |  | System creates a new customer entry with the bank and a new account for the newly registered customer of his/her choosing. The account info (account #) is displayed for the user to see |

**Customer of Any Type Wants to Make a Withdrawal**

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| # | User’s Actions | System’s Response |
| 1 | User issues command to “Withdraw” in from the main menu options. |  |
| 2 |  | System asks for account ID |
| 3 | User inputs account ID |  |
| 4 |  | System asks for amount to withdraw |
| 5 | User inputs amount |  |
| 6 |  | System searches for account with given id and displays error if account not found. If account found, system checks if there is enough money and displays error if not. If everything is correct the money is taken away from the balance and the resulting account info is displayed. |

**Customer of Any Type Wants to Make a Deposit**

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| # | User’s Actions | System’s Response |
| 1 | User issues command to “Deposit” in from the main menu options. |  |
| 2 |  | System asks for account ID |
| 3 | User inputs account ID |  |
| 4 |  | System asks for amount to withdraw |
| 5 | User inputs amount |  |
| 6 |  | System searches for account with given id and displays error if account not found. If account found, system the money added to the balance of the account and the resulting account info is displayed. |

**Customer of Any Type Wants to See All Available Info About His/Her Accounts**

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| # | User’s Actions | System’s Response |
| 1 | User issues command to “List Accounts” in from the main menu options. |  |
| 2 |  | System asks for the user’s name |
| 3 | User enters name | If name is not in the system an error is displayed and user given the chance to reenter his/her name |
| 4 |  | System lists all of the accounts associated with the name provided by the user. A total of the number of accounts is given at the end. |

**Customer Wants to quit The Application**

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| # | User’s Actions | System’s Response |
| 1 | User issues command to “Quit” in from the main menu options. |  |
| 2 |  | The application terminates (exits) |