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| **Test Case#** | **Purpose of the Test Case** | **Input Data** | **Expected Output** |
| 1 | Test the GUI for mismatches in inputs for open accounts button, and tests open accounts for functionality and repeated adds.  **• Case 1:** press open button with empty text boxes  **• Case 2:** press open button with invalid first name filled and rest empty  • **Case 3:** press open button with valid first name filled, and rest empty  **• Case 4**: press open button with valid first name filled, an invalid second name, and rest empty.  **• Case 5:** press open button with valid first name filled, and a valid last name, and rest empty.  **• Case 6:** press open button with valid first name filled, valid last name filled, invalid number format date, and rest empty.  **• Case 7:** press open button with valid first name filled, valid last name filled, invalid date, and rest empty.  **• Case 8**: press open button with valid first name filled, valid last name filled, valid date, and rest empty.  **• Case 9:** press open button with valid first name filled, valid last name filled, valid date, and invalid double.  **• Case 10:** press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, and rest unclicked (radio buttons).  **• Case 11**: press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, checking clicked, and direct deposit unclicked.  **• Case 12:** press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, checking clicked and direct deposit clicked.  **• Case 13**: press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, saving clicked and loyal customer not clicked.  **• Case 14:** press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, Saving clicked, and loyal customer clicked.  **• Case 15**: press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, and money market clicked  **• Case 16:** press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, checking clicked, and direct deposit unclicked.  **• Case 17:** press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, Saving clicked, and loyal customer  **• Case 18**: press open button with valid first name filled, valid last name filled, valid date filled, valid double filled, and money market clicked | **• Case 1:** no inputs  **• Case 2:** first Name: Julian!1  **• Case 3**: first Name: Julian  **• Case 4:** first Name: Julian, last name: Romero!2  **• Case 5:** first Name: Julian, last name: Romero  **• Case 6:** first Name: Julian, last name: Romero, Date: 12!/21/2003  **• Case 7:** first Name: Julian, last name: Romero, Date: 2/29/2021  **• Case 8:** first Name: Julian, last name: Romero, Date: 2/28/2021  **• Case 9:** first Name: Julian, last name: Romero, Date: 2/28/2021, 21!  **• Case 10:** first Name: Julian, last name: Romero, Date: 2/28/2021, 21, radio buttons not pressed  **• Case 11:** first Name: Julian, last name: Romero, Date: 2/28/2021, 21, checking clicked, and direct deposit not clicked  **• Case 12:** first Name: Jack, last name: Romero, Date: 2/28/2021, 21, checking clicked, and direct deposit clicked  **• Case 13:** first Name: Julian, last name: Romero, Date: 2/28/2021, 21, Saving clicked, and loyal customer not clicked  **• Case 14**: first Name: Jack, last name: Romero, Date: 2/28/2021, 21, Saving clicked, and loyal customer clicked  **• Case 15**: first Name: Julian, last name: Romero, Date: 2/28/2021, 21, money market clicked  **• Case 16:** first Name: Julian, last name: Romero, Date: 2/28/2021, 21, checking clicked, and direct deposit not clicked  **• Case 18**: first Name: Julian, last name: Romero, Date 2/28/2021, 21, money market clicked | **• Case 1:** “First name must be entered!”  **• Case 2:** “First name cannot have numbers or symbols!”  **• Case 3**: “last name must be entered!”  **• Case 4:** “Last name cannot have numbers or symbols!”  **• Case 5:** “Date must be entered and cannot have letters or symbols!”  **• Case 6:** “Date must be entered and cannot have letters or symbols!”  **• Case 7:** “Not a valid Date!”  **• Case 8:** “Amount must be entered and be a double!”  **• Case 9:** “Amount must be entered and be a double!”  **• Case 10:** “An account type must be selected!”  **• Case 11:** “Checking Account, Julian Romero, has been added.”  **• Case 12**: “Checking Account, Jack Romero, has been added.”  **• Case 13:** “Savings Account, Julian Romero, has been added.”  **• Case 14:** “Savings Account, Jack Romero, has been added.”  **• Case 15:** “MoneyMarket Account, Julian Romero, has been added.”  **• Case 16:** “Checking Account has not been added: Julian Romero.”  **• Case 17:** “Savings Account has not been added: Jack Romero.”  **• Case 18:** “Money Market Account has not been added: Julian Romero.” |
| 2 | Test the GUI for mismatches in inputs for close account button, and tests close accounts for functionality and repeated adds.  **• Case 1:** press close button with empty text boxes  **• Case 2:** press close button with invalid first name filled and rest empty  • **Case 3:** press close button with valid first name filled, and rest empty  **• Case 4**: press close button with valid first name filled, an invalid second name, and rest empty.  **• Case 5:** press close button with valid first name filled, and a valid last name, and rest empty.  **• Case 6:** press close button with valid first name filled, and a valid last name, and checking clicked.  **• Case 7:** press close button with valid first name filled, and a valid last name, and saving clicked.  **• Case 8:** press close button with valid first name filled, and a valid last name, and money market clicked.  **• Case 9:** press close button with valid first name filled, and a valid last name, and checking clicked.  **• Case 10:** press close button with valid first name filled, and a valid last name, and saving clicked.  **• Case 11:** press close button with valid first name filled, and a valid last name, and money market clicked. | **• Case 1:** no inputs  **• Case 2:** first Name: Julian!1  **• Case 3**: first Name: Julian  **• Case 4:** first Name: Julian, last name: Romero!2  **• Case 5:** first Name: Julian, last name: Romero  **• Case 6:** first Name: Julian, last name: Romero, checking clicked  **• Case 7:** first Name: Julian, last name: Romero, saving clicked  **• Case 8:** first Name: Julian, last name: Romero, money market clicked  **• Case 9:** first Name: Julian, last name: Romero, checking clicked  **• Case 10:** first Name: Julian, last name: Romero, saving clicked  **• Case 11:** first Name: Julian, last name: Romero, money market clicked | **• Case 1:** “First name must be entered!”  **• Case 2:** “First name cannot have numbers or symbols!”  **• Case 3**: “last name must be entered!”  **• Case 4:** “Last name cannot have numbers or symbols!”  **• Case 5:** “An account type must be selected!”  **• Case 6:** “Checking Account, Julian Romero, has been closed.”  **• Case 7:** “Saving Account, Julian Romero, has been closed.”  **• Case 8:** “Money Market account, Julian Romero, has been closed.”  **• Case 9:** “Checking Account has not been closed: Julian Romero.”  **• Case 10:** “Savings Account has not been closed: Julian Romero.”  **• Case 11:** “Money market account Account has not been closed: Julian Romero.” |
| 3 | Tests the import method  **• Case 1:** import a file not in the format specified for importing  **• Case 2:** import a file in the format specified for importing but one input for the accounts has a wrong input format  **• Case 3:** import a file in the correct format specified for importing  **• Case 4:** import a file in the correct format specified for importing | **• Case 1:** wrong formated text file  **• Case 2:** database.txt but first account has “!” in first name  • **Case 3:** database.txt  • **Case 4:** database.txt | **• Case 1:**  “wrong input size format”  **• Case 2:**  “wrong input name format”  **• Case 3:**  “Import completed”  **• Case 4:**  “Warning some accounts already in database and have not been added”  “Import completed “ |
| 4 | Tests the Export method  **• Case 1:** Export a file to the desktop when database is empty  **• Case 2:** Export a file to the desktop when database is not empty | **• Case 1:** Empty database  **• Case 2:** import database.txt as starting database | **• Case 1:** “Export Failed database empty”  **• Case 2:** “Export Successful” |