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| GUI Open/Close | |  |  |  |
| Test Case # | Requirement | | Test description and Input Data | Expected result/output |
| 1 | The text area shall read “Missing First Name” if Open or Close button is pressed while the First Name field is empty. | | Press Open or Close Button while First Name field is empty. | “Missing First Name” |
| 2 | The text area shall read “Missing Last Name” if Open or Close button is pressed while the Last Name field is empty. | | Press Open or Close Button while Last Name field is empty. | “Missing Last Name” |
| 3 | The text area shall read “Missing Date of Birth” if Open or Close button is pressed while the Date of Birth field is empty. | | Press Open or Close button while Date of Birth field is empty. | “Missing Date of Birth” |
| 4 | The text area shall read “Missing Amount” if Open or Close button is pressed while the Amount field is empty. | | Press Open or Close Button while Amount field is empty. | “Missing amount” |
| 5 | The text area shall read “No Account Type Selected” if Open or Close button is pressed while an Account Type button is not selected. | | Press Open or Close button while no Account Type button is selected. | “No Account Type Selected” |
| 6 | The text area shall read “Not a valid amount” if Open or Close button is pressed while the Amount field contains a non-number or number <= 0. | | Press Open or Close button while Amount contains a number <=0 or some other character. | “Not a valid amount” |
| 7 | The text area shall read “No Campus Selected” if Open button is pressed with college checking selected and the college campus radio button not selected. | | Press Open while fields filled with name, dob over 16, college checking selected, and an amount over 0. The campus radio button is not selected. | “No Campus Selected” |
| 8 | The text area shall read “DOB Invalid: 10/30/2023 under 16.” If Open button is pressed and dob is under 16. | | Press Open while the DOB field is set to 10/30/2023. | “DOB invalid: 10/30/2023 under 16.” |
| 9 | The text area shall read “DOB invalid: 11/1/1999 over 24.” If Open button is pressed while college checking selected and dob is over 24. | | Press Open while DOB field is to 11/1/1999 and College Checking is selected. | “DOB invalid: 11/1/1999 over 24.” |
| 10 | The text area shall read “Minimum of $2000 to open a Money Market account.” When Open button is pressed while Money Market selected and amount is <2000 | | Press Open while Amount field is set to 1999 and Money Market is selected. | “Minimum of $2000 to open a Money Market account.” |
| 11 | The text area shall read “Jane Doe 10/1/1995(S) is already in the database.” When Open button is pressed while an equivalent account exists in the database. | | Open a Savings account for Jane Doe born 10/1/1995. Then try opening a Savings again with the same information. | “Jane Doe 10/1/1995(S) is already in the database.” |
| 12 | The text area shall read “Initial deposit cannot be 0 or negative.” When Open button is pressed while the Amount field is <= 0 | | Open an account of any type with the fields filled with valid information, except the Amount. Put in 0 in the Amount field. | “Initial deposit cannot be 0 or negative.” |
| 13 | The text area shall read “DOB invalid: 12/1/2023 cannot be today or a future day.” When Open is pressed while the DOB field contains the current or future date. | | Open an account of any type with the field filled with valid information, except the DOB. Set the DOB field to 12/1/2023 | “DOB invalid: 12/1/2023 cannot be today or a future day.” |
| 14 | The text area shall read “Z D 10/28/2007 (Savings) is not in the database.” If Close is pressed for an account not in the database. | | Create an account “Z D 10/29/2007” then close an account for “Z D 10/28/2007”. | “Z D 10/28/2007 (Savings) is not in the database.” |
| 15 | The text area shall read “Z D 10/28/2007 (Savings) Opened.” If all fields are filled out properly when Open pressed. | | Create an account “Z D 10/28/2007 (Savings)” with all fields filled out. | “Z D 10/28/2007 (Savings) Opened.” |
| 16 | The text area shall read “Z D 10/28/2007 (Savings) has been closed.” If all fields are filled out properly when Close pressed. | | After creating account, close “Z D 10/28/2007 (Savings)”. | “Z D 10/28/2007 (Savings) has been closed.” |

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| GUI Deposit/Withdraw | |  |  |  |
| Test Case # | Requirement | | Test description and Input Data | Expected result/output |
| 1 | The text area shall read “Missing First Name” if Deposit or Withdrawal button is pressed while the First Name field is empty. | | Press Deposit or Withdrawal Button while First Name field is empty. | “Missing First Name” |
| 2 | The text area shall read “Missing Last Name” if Deposit or Withdrawal button is pressed while the Last Name field is empty. | | Press Deposit or Withdrawal Button while Last Name field is empty. | “Missing Last Name” |
| 3 | The text area shall read “Missing Date of Birth” if Deposit or Withdrawal button is pressed while the Date of Birth field is empty. | | Press Deposit or Withdrawal button while Date of Birth field is empty. | “Missing Date of Birth” |
| 4 | The text area shall read “Missing Amount” if Deposit or Withdrawal button is pressed while the Amount field is empty. | | Press Deposit or Withdrawal Button while Amount field is empty. | “Missing amount” |
| 5 | The text area shall read “No Account Type Selected” if Deposit or Withdrawal button is pressed while an Account Type button is not selected. | | Press Open, Close, Deposit or Withdrawal button while no Account Type button is selected | “No Account Type Selected” |
| 6 | The text area shall read “Not a valid amount” if Deposit or Withdrawal button is pressed while the Amount field contains a non-number or number <= 0 | | Press Deposit or Withdrawal button while Amount contains a number <= 0 or some other character | “Not a valid amount” |
| 7 | The text area shall read “Deposit - amount cannot be 0 or negative.” When Deposit is pressed while the Amount field is <= 0 | | Open an account of any type with the field filled with valid information. Deposit to the account with the Amount field to 0 | “Deposit - amount cannot be 0 or negative.” |
| 8 | The text area shall read “Withdrawal - amount cannot be 0 or negative.” When Withdraw is pressed while the Amount field is <= 0 | | Open an account of any type with the field filled with valid information. With draw from the account with the Amount field to 0 | “Withdrawal - amount cannot be 0 or negative.” |
| 9 | The text area shall read “Z D 11/5/2007(Savings) Withdraw - insufficient fund.” When Withdraw is pressed while Amount exceeds the account balance. | | Open an account “Z D 11/5/2007(Savings)” with a $50 opening deposit. Withdraw $51 from the account. | “Z D 11/5/2007(Savings) Withdraw - insufficient fund.” |
| 10 | The text area shall read “Z D 11/5/2007(Savings) Deposit - balance updated.” For a successful deposit. | | Open an account “Z D 11/5/2007(Savings)” with a $1 opening deposit. Deposit $1 into the account. | “Z D 11/5/2007(Savings) Deposit - balance updated.” |
| 19 | The text area shall read “Z D 11/5/2007(Savings) Withdraw - balance updated.” For a successful withdrawal. | | Open an account “Z D 11/5/2007(Savings)” with a $2 opening deposit. Withdraw $1 into the account. | “Z D 11/5/2007(Savings) Withdraw - balance updated.” |
| 20 | The area shall read “Z D 10/28/2007 (Savings) is not in the database.” | | After opening account from previous step deposit/withdraw for an account “Z D 10/28/2007 (Savings)”. | “Z D 10/28/2007 (Savings) is not in the database.” |

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| GUI Account Database | |  |  |  |
| Test Case # | Requirement | | Test description and Input Data | Expected result/output |
| 1 | The text area shall read “Account Database is empty!” if the Print Sorted button is pressed while the database is empty. | | Press Print Sorted button while database is empty. | “Account Database is empty!” |
| 2 | The text area shall read “\*Accounts sorted by account type and profile.  Savings::Z D 10/30/2007::Balance $5.00  \* end of list.” If Print Sorted is pressed with an account in the database. | | Press Print Sorted after opening this account “Savings::Z D 10/30/2007::Balance $5.00”. | “\*Accounts sorted by account type and profile.  Savings::Z D 10/31/2007::Balance $50.00::is loyal  \* end of list.” |
| 3 | The text area shall read “Account Database is empty!” if the Print Fees and Interest button is pressed while the database is empty. | | Press Print Fees and Interest button while database is empty. | “Account Database is empty!” |
| 4 | The text area shall read “\*list of accounts with fee and monthly interest.  Savings::Z D 10/30/2007::Balance $5.00::fee $25.00::monthly interest $0.02  \* end of list.” if the Print Fees and Interest button is pressed with an account in the database. | | Press Print Fees and Interest after opening this account “Savings::Z D 10/30/2007::Balance $5.00”. | “\*list of accounts with fee and monthly interest.  Savings::Z D 10/31/2007::Balance $50.00::is loyal::fee $25.00::monthly interest $0.18  \* end of list.” |
| 5 | The text area shall read “Account Database is empty!” if the Print Updated Balances button is pressed while the database is empty. | | Press Print Updated Balances button while database is empty. | “Account Database is empty!” |
| 6 | The text area shall read “Account Database is empty!” if the Print Updated Balances button is pressed while the database is empty. | | Press Print Updated Balances button after opening this account “Savings::Z D 10/30/2007::Balance $5.00”. | “\* list of accounts with fees and interests applied.  Savings::Z D 10/31/2007::Balance $25.18::is loyal  \* end of list.” |
| 7 | The area shall read “John Doe 2/19/2000 (College Checking) Opened.  Jane Doe 10/1/2000 (College Checking) Opened.  Jane Doe 10/1/1995 (Savings) Opened.  Jane Doe 10/1/1995 (Money Market) Opened.  April March 1/15/1987 (Checking) Opened.  April March 1/15/1987 (Savings) Opened.  Jason Brown 3/31/1998 (Checking) Opened.  Kate Lindsey 8/31/2001 (Checking) Opened.  Roy Brooks 10/31/2007 (Money Market) Opened.  Roy Brooks 10/1/2007 (Money Market) Opened.  April March 1/15/1987 (Money Market) Opened.  Chris Young 9/20/2006 (College Checking) Opened.  Duke Ellington 11/2/2002 (College Checking) Opened.  Kate Lindsey 11/2/2002 (College Checking) Opened.  John Doe 2/19/1990 (Savings) Opened.” After pressing the Load From File button and adding bankaccounts.txt | | Press Load From File and upload the bankaccount.txt file. | “John Doe 2/19/2000 (College Checking) Opened.  Jane Doe 10/1/2000 (College Checking) Opened.  Jane Doe 10/1/1995 (Savings) Opened.  Jane Doe 10/1/1995 (Money Market) Opened.  April March 1/15/1987 (Checking) Opened.  April March 1/15/1987 (Savings) Opened.  Jason Brown 3/31/1998 (Checking) Opened.  Kate Lindsey 8/31/2001 (Checking) Opened.  Roy Brooks 10/31/2007 (Money Market) Opened.  Roy Brooks 10/1/2007 (Money Market) Opened.  April March 1/15/1987 (Money Market) Opened.  Chris Young 9/20/2006 (College Checking) Opened.  Duke Ellington 11/2/2002 (College Checking) Opened.  Kate Lindsey 11/2/2002 (College Checking) Opened.  John Doe 2/19/1990 (Savings) Opened.” |
| 8 | The text area shall read “No File Selected.” If the Load From File button is pressed and no file is selected. | | Press the Load From File button and hit cancel. | “No File Selected.” |