Test Document for MainController Class

Test Case #	Purpose for test case	Input Data	Expected Output
0	Test open account functionality	Case #1a First Name: Last Name: Atienza Date: 9/26/1999 Balance: 500 AccountType: Checking Case #1b First Name: Josh	Case #1a "Please enter a full name." Case #1b "Please enter a full
	 Case 1d: Missing balance Case 1e: Missing type of account Case 2: Open account with sufficient, valid information 	Last Name: Date: 9/26/1999 Balance: 500 AccountType: Checking	name."
	 Case 2a: Checking Direct Deposit True Direct Deposit False Case 2b: Savings Loyal = True 	Case #1c First Name: Josh Last Name: Atienza Date: Balance: 500 AccountType: Checking	Case #1c "Not enough information provided, account could not be created."
	ii. Loyal = False Case 2c: Money Market Case 2d: Account already exists Case 3: Open account with sufficient information, invalid	Case #1d First Name: Josh Last Name: Atienza Date: 9/26/1999 Balance: AccountType: Checking	Case #1d "Number format exception, enter a valid starting balance."
	 date Case 4: Open account with sufficient information, negative balance 	Case #1e First Name: Josh Last Name: Atienza Date: 9/26/1999 Balance: 500 AccountType:	Case #1e "No account type chosen."
		Case #2ai First Name: Josh Last Name: Atienza Date: 9/26/1999 Balance: 500 AccountType: Checking Direct Deposit: True	Case #2ai "Account opened and added to the database."

Case #2aii

First Name: Kyle Last Name: Lee Date: 2/26/1999 Balance: 500

AccountType: Checking Direct Deposit: False

Case #2bi

First Name: JP Last Name: Edralin Date: 4/11/1999 Balance: 500

AccountType: Savings

Loyal: True

Case #2bii

First Name: Ken Last Name: Chang Date: 7/11/1998 Balance: 500

AccountType: Savings

Loyal: False

Case #2c

First Name: Jasmine Last Name: Shen Date: 9/16/1999 Balance: 500

AccountType: Money Market

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Case #2d (Josh Atienza Checking

exists already)
First Name: Josh
Last Name: Atienza
Date: 9/26/1999
Balance: 500

AccountType: Checking Direct Deposit: True

Case #3

First Name: Josh Last Name: Atienza Date: 13/26/1999 Balance: 500

AccountType: Checking Direct Deposit: True

Case #2aii

"Account opened and added to the

database."

Case #2bi

"Account opened and added to the

database."

Case #2bii

"Account opened and added to the

database."

Case #2c

"Account opened and added to the

database."

Case #2d

"Account is already in the database."

Case #3

"13/26/1999 is not a

valid date!"

		Case #4 First Name: Josh Last Name: Atienza Date: 9/26/1999 Balance: -1000 AccountType: Checking Direct Deposit: True	Case #4 "No negative numbers, please enter a valid number."
1	Test close account functionality Case 1: Close account with insufficient information (missing first/last name) Case 2: Close account with sufficient information (first name, last name) Case 2a: Account exists Case 2b: Account	Case #1 First Name: Susan Last Name: Case #2a (In database) First Name: Susan Last Name: Anthony	Case #1 "Account does not exist." Case #2a "Account closed and removed from the database."
	doesn't exist	Case #2b (Not in database) First Name: Lavar Last Name: Ball	Case #2b "Account does not exist."

2 Case #1a Case #1a Test deposit functionality "Account does not Case 1: Deposit with First Name: insufficient information Last Name: James exist." Case 1a: Missing first Amount: 45.00 AccountType: Checking Case 1b: Missing last Case #1b Case #1b name Case 1c: Missing First Name: LeBron "Account does not amount Last Name: exist." Case 1d: Missing type Amount: 45.00 of account AccountType: Checking Case 2: Deposit with sufficient, valid information Case #1c Case #1c • Case 3: Deposit with sufficient First Name: LeBron "Number format information, invalid amount exception, enter a Last Name: James Amount: valid amount to deposit." AccountType: Checking Case #1d Case #1d First Name: LeBron "Select a valid Last Name: James account type to Amount: 45.00 deposit into." AccountType: Case #2 (Lebron James in Case #2 database) "45.00 deposited to First Name: LeBron account." Last Name: James Amount: 45.00 AccountType: Checking Case #3 Case #3 "No negative First Name: LeBron numbers, please Last Name: James enter a valid Amount: -45.00 number." AccountType: Checking Case #1a Case #1a 3 Test withdraw functionality "Account does not Case 1: Withdraw with First Name: insufficient information Last Name: Lee exist." Case 1a: Missing first Amount: 20.00 AccountType: Checking Case 1b: Missing last name Case #1b Case #1b o Case 1c: Missing First Name: Kyle "Account does not amount Last Name: exist." Case 1d: Missing type Amount: 20.00 of account AccountType: Checking Case 2: Withdraw with sufficient, valid information Case #1c Case #1c

	 Case 2a: Enough funds Case 2b: Not enough funds Case 3: Withdraw with sufficient information, invalid amount 	First Name: Kyle Last Name: Lee Amount: AccountType: Checking Case #1d First Name: Kyle Last Name: Lee Amount: 20.00 AccountType:	"Number format exception, enter a valid amount to withdraw." Case #1d "Select a valid account type to withdraw from."
		Case #2a First Name: Kyle Last Name: Lee Amount: 35.00 AccountType: Checking (Account Balance Before: 50.00)	Case #2a "35.00 withdrawn from account."
		Case #2b First Name: Kyle Last Name: Lee Amount: 35.00 AccountType: Checking (Account Balance Before: 20.00)	Case #2b "Insufficient funds."
		Case #3 First Name: Kyle Last Name: Lee Amount: -35.00 (Account Balance Before: 20.00)	Case #3 "No negative numbers, please enter a valid number."
4	Test print functionality	Case #1 Database: *empty* Case #2 Database: refer to added accounts in "test open functionality"	Case #1 Database is empty. Case #2 "Listing accounts in the database *Checking*Josh Atienza* \$500.00*9/26/1999*d irect deposit account* *Checking*Kyle Lee* \$500.00*2/26/1999 *Savings*JP Edralin* \$500.00*4/11/1999*s pecial Savings account* *Savings*Ken Chang*

\$500.00*7/11/1998 *Money Market*Jasmine Shen* \$500.00*9/16/1998*0 withdrawals* --end of listing--Case #3: Case #3 Database: refer to added --Printing statements accounts in "test open by date opened-functionality" *Savings*Ken Chang* \$500.00*7/11/1998 -interest: \$ 0.10 -fee: \$ 0.00 -new balance: \$ 500.10 *Money Market*Jasmine Shen* \$500.00*9/16/1998*0 withdrawals* -interest: \$ 0.26 -fee: \$ 12.00 -new balance: \$ 488.27 *Checking*Kyle Lee* \$500.00*2/26/1999 -interest: \$ 0.02 -fee: \$ 25.00 -new balance: \$ 475.02 *Savings*JP Edralin* \$500.00*4/11/1999*s pecial Savings account* -interest: \$ 0.15 -fee: \$ 0.00 -new balance: \$ 500.15 *Checking*Josh

Atienza* \$500.00*9/26/1999*d irect deposit account* -interest: \$ 0.02 -fee: \$ 0.00 -new balance: \$ 500.02 --end of listing--Case #4 Case #4 Database: refer to added --Printing statements accounts in "test open by last name-functionality" *Checking*Josh Atienza* \$500.02*9/26/1999*d irect deposit account* -interest: \$ 0.02 -fee: \$ 0.00 -new balance: \$ 500.04 *Savings*Ken Chang* \$500.10*7/11/1998 -interest: \$ 0.10 -fee: \$ 0.00 -new balance: \$ 500.21 *Savings*JP Edralin* \$500.15*4/11/1999*s pecial Savings account* -interest: \$ 0.15 -fee: \$ 0.00 -new balance: \$ 500.29 *Checking*Kyle Lee* \$475.02*2/26/1999 -interest: \$ 0.02 -fee: \$ 25.00 -new balance: \$ 450.04 *Money Market*Jasmine

			Shen* \$488.27*9/16/1998*0 withdrawals* -interest: \$ 0.26 -fee: \$ 12.00 -new balance: \$ 476.54end of printing
5	Test import functionality Case 1: Import text file Case 1a: All valid tokens in text file Case 1b: InputMismatchExcepti on (wrong data type in input) Case 1c: NoSuchElementException (insufficient data provided) Case 2: Click import, but don't import anything (NullPointerException)	Case #1a ActionEvent event is initiated, followed by the selection of a valid text file Text File: S,Josh,Atienza,500,1/1/2019,true Case #1b ActionEvent event is initiated, followed by the selection of a valid text file + line has wrong data type in input Text File: S,Josh,Atienza,500,1/1/2019,8 Case #1c ActionEvent event is initiated, followed by the selection of a valid text file + line has insufficient data provided Text File: S,Josh,Atienza Case #2 ActionEvent event is initiated, followed by cancel of import file	Case #1a "File imported." Case #1b "Invalid input data type, account not created." Case #1c "No such element exception, not enough information provided." Case #2 "File not selected, unable to import
			transactions to file."
6	Test export functionality	Case #1 ActionEvent event is initiated on export, followed by the selection of a valid export file name and an associating directory	Case #1 AccountDatabase is written to a text file named by the user. and TextArea displays "File

Joshua Atienza (NetID: jra165), Kyle Lee (NetID: kl781)

			successfully exported."
		Case #2 ActionEvent event is initiated on export, followed by cancel of export file	Case #2 "File not selected, unable to export transactions to file."
7	Test clear functionality • Case 1: Few to all populated elements on Open/Close tab	Case #1 ActionEvent event is initiated on clear	Case #1 (all data fields are cleared)