class name: AccountDatabase Method Signature: public boolean open() //adding an account to the account database Test Requirement Test Description and Input Data Expected Result/Output Cas e # 1 Opening college checking account for Enter first name, last name, dob, **Bob Ross** select college checking and NB, New Brunswick, will add account to 1/12/2005(Coll database with correct info entered and type a numerical amount ege Checking) opened. Data: Bob, Ross, 01/12/2005, College Checking, NB, 1000 2 DOB invalid: Opening college checking account for Enter first name, last name, dob New Brunswick, will not add account under 16, college checking and 5/20/2020 to database due to incorrect info NB, and numerical amount under 16. Data: Bob, Ross, entered 05/20/2020, College Checking, NB, 1000 3 Opening college checking account for Enter first name, last name, dob. Jake Denim Newark, will add account to database select college checking and 6/22/2004(Coll with correct info entered Newark, and type a numerical ege Checking) opened. amount Data: Jake, Denim, 06/22/2004, College Checking, Newark, 500 4 Opening college checking account for DOB invalid: Enter first name, last name, dob Newark, will not add account to over 24, college checking and 6/22/1990 over database due to incorrect info Newark, and numerical amount 24. Data: Jake. Denim. entered 06/22/1990, College Checking, Newark, 500 5 Opening college checking account for John Reese Enter first name, last name, dob. Camden, will add account to select college checking and 8/15/2006(Coll ege Checking) database with correct info entered Camden, and type a numerical amount opened. Data: John, Reese, 08/15/2006, College Checking, Camden, 20 6 Opening college checking account for DOB invalid: Enter first name, last name, dob Camden, will not add account to under 16, college checking and 8/15/2008 Camden, and numerical amount database due to incorrect info under 16. Data: John. Reese. entered 08/15/2008, College

class name: AccountDatabase Method Signature: public boolean open() //adding an account to the account database Checking, Camden, 20 7 Opening checking account, will add Enter first name, last name, dob, Aah Rah account to database with correct info select checking, type a numerical 11/29/2002(Ch entered amount ecking) opened. Data: Aah, Rah, 11/29/2002, Checking, 50 8 DOB invalid: Opening checking account, will not Enter first name, last name, dob add account to database due to under 16, select checking, type a 11/29/2020 incorrect info entered numerical amount under 16. • Data: Aah, Rah, 11/29/2020, Checking, 50 9 Opening savings account - loyal, will Rob Rob Enter first name, last name, dob, add account to database with correct select savings account and loyal 11/13/2003(Sa info entered customer, type a numerical vings) opened. amount Data: Rob, Rob, 11/13/2003, Savings, Loyal Customer, 100 10 Opening savings account - loyal, will Enter first name, last name, dob DOB invalid: not add account to database due to in the future, select savings 11/13/2030 account and loval customer, type incorrect info entered cannot be a numerical amount today or a Data: Rob, Rob, future day. 11/13/2030, Savings, Loval Customer, 100 11 Opening savings account - not loyal, Enter first name, last name, dob, Reeb Davis will add account to database with select savings account with no 11/13/2003(Sa loval, type a numerical amount correct info entered vings) opened. Data: Reeb, Davis, 11/13/2003, Savings, Uncheck Loyal Customer. 100 12 Opening savings account - not loyal, Enter first name, last name, dob, INITIAL will not add account to database due select savings account with no **AMOUNT** to incorrect info entered loyal, type a numerical amount in CANNOT BE 0 negatives OR NEGATIVE Data: Reeb, Davis, 11/13/2002, Savings, Uncheck Loyal Customer, -100 13 Zee Haas Opening money market account, will Enter first name, last name, dob,

class name: AccountDatabase Method Signature: public boolean open() //adding an account to the account database			
	add account to database with correct info entered	select money market account, type numerical amount • Data: Zee, Haas, 5/14/2002, Money Market, 2000	5/14/2002(Mon ey Market) opened.
14	Opening money market account, will not add account to database due to incorrect info entered	Enter first name, last name, dob, select money market account, type numerical amount less than 2000 Data: Zee, Haaso, 5/14/2002, Money Market, 1000	Minimum of \$2000 to open a Money Market account.
15	Opening an account that is already in the database will result in an exception, this will test this case	Enter same info as test case 1 ■ Data: Bob, Ross, 01/12/2005, College Checking, NB, 1000	Bob Ross 1/12/2005(Coll ege Checking) is already in the database.

class name: AccountDatabase Method Signature: public boolean close() //removing an account to the account database Test Requirement Test Description and Input Data Expected Cas Result/Output e# 16 Closing college checking Enter test case 1 info to remove this Bob Ross account for New Brunswick, will account successfully 1/12/2005(Coll remove account from database Data: Bob, Ross, 01/12/2005, ege Checking) College Checking, NB, 1000 has been with proper info entered closed. 17 Closing college checking Enter test case 1 info after removing **Bob Ross** account for New Brunswick, the account from the database again 1/12/2005(Coll Data: Bob, Ross, 01/12/2005, cannot remove account ege Checking) because it doesn't exist College Checking, NB, 1000 is not in the database. 18 Closing college checking Enter test case 3 info to remove this Jake Denim account for Newark, will remove 6/22/2004(Coll account successfully account from database with Data: Jake, Denim, 06/22/2004, ege Checking) proper info entered College Checking, Newark, 500 has been closed. 19 Closing college checking Enter test case 3 info after removing Jake Denim account for Newark, cannot the account from the database again 6/22/2004(Coll remove account because it Data: Jake. Denim. 06/22/2004. ege Checking) doesn't exist College Checking, Newark, 500 is not in the database. 20 Closing college checking Enter test case 5 info to remove this John Reese account for Camden, will account successfully 8/15/2006(Coll Data: John, Reese, 08/15/2006, remove account from database ege Checking) with proper info entered College Checking, Camden, 20 has been closed. 21 Closing college checking Enter test case 5 info after removing John Reese account for Camden, cannot the account from the database again 8/15/2006(Coll remove account because it Data: John, Reese, 08/15/2006, ege Checking) College Checking, Camden, 20 is not in the doesn't exist database. 22 Closing checking account, will Enter test case 7 info to remove this Aah Rah remove account from database account successfully 11/29/2002(Ch Data: Aah, Rah, 11/29/2002, with proper info entered ecking) has been closed. Checking, 50 23 Closing checking account, Enter test case 7 info after removing Aah Rah

the account from the database again

Data: Aah, Rah, 11/29/2002,

11/29/2002(Ch

ecking) is not in

cannot remove account

because it doesn't exist

class name: AccountDatabase Method Signature: public boolean close() //removing an account to the account database Checking, 50 the database. 24 Closing savings account with Enter test case 9 info to remove this Rob Rob loyalty, will remove account account successfully 11/13/2003(Sav from database with proper info Data: Rob, Rob, 11/13/2003, ings) has been entered Savings, Loyal Customer, 100 closed. 25 Closing savings account with Enter test case 9 info after removing Rob Rob the account from the database again loyalty, cannot remove account 11/13/2003(Sav Data: Rob, Rob, 11/13/2003, because it doesn't exist ings) is not in Savings, Loyal Customer, 100 the database. 26 Closing savings account without Enter test case 11 info to remove this Reeb Davis loyalty, will remove account account successfully 11/13/2003(Sav from database with proper info Data: Reeb, Davis, 11/13/2003, ings) has been Savings, Uncheck Loyal entered closed. Customer, 100 27 Closing savings account without Enter test case 11 info after removing Reeb Davis loyalty, cannot remove account the account from the database again 11/13/2003(Sav because it doesn't exist Data: Reeb, Davis, 11/13/2003, ings) is not in Savings, Uncheck Loyal the database. Customer, 100 28 Closing money market account, Enter test case 13 info to remove this Zee Haas will remove account from account successfully 5/14/2002(Mon database with proper info Data: Zee, Haas, 5/14/2002, ev Market) has been closed. entered Money Market, 2000 29 Closing money market account. Zee Haas Enter test case 13 info after removing cannot remove account the account from the database again 5/14/2002(Mon because it doesn't exist Data: Zee, Haas, 5/14/2002, ey Market) is not in the Money Market, 2000 database.

class name: AccountDatabase Method Signature: public boolean deposit() //add money to balance of specified account				
Test Cas e #	Requirement	Test Description and Input Data	Expected Result/Output	
30	Deposit money into an existing account, the balance will be updated	Enter test case 13 info to match account already in database, choose any numerical amount to deposit • Data: Zee, Haas, 5/14/2002, Money Market, 300	Zee Haas 5/14/2002(Mon ey Market) Deposit - balance updated.	
31	Deposit money into a non-existing account, exception will be thrown	Enter random first name, last name, dob, account type, and amount which doesn't exist in the database • Data: Que, Tal, 2/2/2002, Checking, 100000	Que Tal 2/2/2002(Chec king) is not in the database.	

1 0.0.0	class name: AccountDatabase Method Signature: public boolean withdraw() //remove money from balance of specified account				
Test Cas e #	Requirement	Test Description and Input Data	Expected Result/Output		
32	Withdraw money from an existing account, the balance will be updated	Enter test case 11 info to match account already in database, choose any numerical amount to withdraw as long as its within bounds • Data: Reeb, Davis, 11/13/2003, Savings, 50	Reeb Davis 11/13/2003(Sav ings) Withdraw - balance updated.		
33	Withdraw money from a non-existing account, exception will be thrown	Enter random first name, last name, dob, account type, and amount which doesn't exist in the database • Data: Como, Estas, 1/1/2001, Checking, 104	Como Estas 1/1/2001(Chec king) is not in the database.		
34	Withdraw more money than an existing account holds, exception will be thrown	Enter test case 13 info to match account already in database, choose an amount greater than current balance • Data: Zee, Haas, 5/14/2002, Money Market, 3000	Zee Haas 5/14/2002(Mon ey Market) Withdraw - insufficient fund.		

class name: AccountDatabase Method Signature: public boolean printSorted() //print accounts from database sorted by account type and profile

Test Cas e #	Requirement	Test Description and Input Data	Expected Result/Output
35	Printing when there are no accounts in the database, will result in an exception	Go to the account database tab and click print all accounts when loading up the transaction manager.	Account Database is empty
36	Printing when accounts from test case 1, 3, and 5 are there will print them in sorted order	First open accounts from test cases 1, 3, and 5 to ensure the database is not empty. Then go to the account database tab and click print all accounts.	*Accounts sorted by account type and profile. College Checking::Jake Denim 6/22/2004::Bala nce \$500.00::NEW ARK College Checking::John Reese 8/15/2006::Bala nce \$20.00::CAMD EN College Checking::Bob Ross 1/12/2005::Bala nce \$1,000.00::NE W_BRUNSWIC K *end of list.

class name: AccountDatabase Method Signature: public boolean printFeesAndInterests() //print accounts from database with their interests and fees

Test Cas e #	Requirement	Test Description and Input Data	Expected Result/Output		
37	Printing when there are no accounts in the database, will result in an exception	Go to the account database tab and click print interest and fees when loading up the transaction manager.	Account Database is empty		
38	Printing when accounts from test case 1, 3, and 5 are there will print them in sorted order	First open accounts from test cases 1, 3, and 5 to ensure the database is not empty. Then go to the account database tab and click print interest and fees.	*list of accounts with fee and monthly interest College Checking::Jake Denim 6/22/2004::Bala nce \$500.00::NEW ARK::fee \$0.00::monthly interest \$0.42 College Checking::John Reese 8/15/2006::Bala nce \$20.00::CAMD EN::fee \$0.00::monthly interest \$0.02 College Checking::Bob Ross 1/12/2005::Bala nce \$1,000.00::NE W_BRUNSWIC K::fee \$0.00::monthly interest \$0.83 *end of list.		

class name: AccountDatabase Method Signature: public boolean printUpdatedBalances() //print accounts from database with their updated interests/fees/balances

Test Cas e #	Requirement	Test Description and Input Data	Expected Result/Output		
39	Printing when there are no accounts in the database, will result in an exception	Go to the account database tab and click update accounts with interests and fees when loading up the transaction manager.	Account Database is empty		
40	Printing when accounts from test case 1, 3, and 5 are there will print them in sorted order	First open accounts from test cases 1, 3, and 5 to ensure the database is not empty. Then go to the account database tab and click update accounts with interests and fees.	*list of accounts with fees and interests applied. College Checking::Jake Denim 6/22/2004::Bala nce \$500.42::NEW ARK College Checking::John Reese 8/15/2006::Bala nce \$20.02::CAMD EN College Checking::Bob Ross 1/12/2005::Bala nce \$1,000.83::NE W_BRUNSWIC K *end of list.		
41	Test case for Loading Accounts From File - should load all accounts from file into account database, printing them in sorted order with proper balances, interests, and fees	Download the given file "bankAccounts.txt" from Canvas. Load this file into the project using the Load Accounts From File Button in the Account Database tab. Now, clicking any of the print buttons will print all accounts in proper order with their	*list of accounts with fees and interests applied. Checking::Jaso n Brown 3/31/1998::Bala		

class name: AccountDatabase Method Signature: public boolean printUpdatedBalances() //print accounts from database with their updated interests/fees/balances respective amounts. nce \$1,201.00 Checking::Kate Lindsey 8/31/2001::Bala nce \$438.38 Checking::April March 1/15/1987::Bala nce \$288.25 College Checking::John Doe 2/19/2000::Bala nce \$600.49::NEW **BRUNSWICK** College Checking::Jane Doe 10/1/2000::Bala nce \$1,000.82::NE W_BRUNSWIC Κ College Checking::Duk e Ellington 11/2/2002::Bala nce \$900.75::NEW ARK College Checking::Kate Lindsey 11/2/2002::Bala nce \$200.17::CAM DEN College Checking::Chri s Young 9/20/2006::Bala nce \$500.42::NEW **BRUNSWICK** Money

updated interests/fees/balan	Method Signature: public boolean printUpdatedBalances() //print accounts from database with their updated interests/fees/balances		
		Market::Saving s::Roy Brooks 10/31/2007::Bata ance \$2,920.62::is loyal::withdraw al 0 Money Market::Saving s::Roy Brooks 10/1/2007::Bata nce \$2,920.62::is loyal::withdraw al 0 Money Market::Saving s::Jane Doe 10/1/1995::Bata nce \$2,007.92::is loyal::withdraw al 0 Money Market::Saving s::April March 1/15/1987::Bata nce \$2,509.90::is loyal::withdraw al 0 Savings::Jane Doe 10/1/1995::Bata nce \$1,003.33 Savings::John Doe 2/19/1990::Bata nce \$1,003.33 Savings::John Doe 2/19/1990::Bata nce \$175.67 Savings::April March 1/15/1987::Bata nce \$1,505.31::is loyal	

class name: AccountDatabase Method Signature: public boolean printUpdatedBalances() //print accounts from database with their updated interests/fees/balances			
42	Test case for Loading Accounts From File - selecting no file will result in an exception, printing a message to the text area	Go into the account database tab and click load accounts from the file. Click cancel when prompted with choosing a file.	No file selected