

**Project# 3- Test Design Document**

<b>Test bankTellerController Class</b>			
Test Case #	Requirement	Test Description and input data	Expected Output
1	Months January, March, May, July, August, October, December cannot have more than 31 days	Create an Account with a date with any year and a day greater than 31 and one of the given months  Test date: "1/32/1995"	Invalid Date of Birth.
2	Months April, June, September, and November cannot have more than 30 days	Create an Account with a date with any year and a day greater than 30 and one of the given months  Test date: "4/31/2010"	Invalid Date of Birth.
3	The month of February must have no more than 28 days in a non-leap year	Create an Account with a date with a non-leap year, a day greater than 28, and month of February  Test date: "2/29/2022"	Invalid Date of Birth
4	The month of February must have no more than 29 in a leap year	Create an Account with a date with a leap year, a day greater than 29, and the month of February.  Test date: "2/29/2020"	Account Opened.
5	The Month value cannot be less than 1	Create an Account with a DOB with a month that has -1 value  Test date: "-1/1/2020"	Invalid Date of Birth
6	The Month value cannot be more than 12	Create an Account with a DOB with a month that has 13 value  Test date: "13/1/2020"	Invalid Date of Birth

7	To Open Account, you must give a First Name	<p>Leave the First Name text field empty only and press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name:</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- Checking</li> </ul>	Missing Data for opening an account
8	To Open Account, you must give a last name	<p>Leave the last Name text field empty only and press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name:</li> <li>- DOB: 2/19/2002</li> <li>- Checking</li> </ul>	Missing Data for opening an account
9	To Open Account, you must give a DOB	<p>Leave the DOB text field empty only and press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB:</li> <li>- Initial Deposit: 100</li> <li>- Checking</li> </ul>	Missing Data for opening an account
10	To Open Account, you must not leave the Initial Deposit text field empty	<p>Leave the Initial Deposit Text field empty and press the open account button</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB:</li> <li>- Initial Deposit:</li> <li>- Checking</li> </ul>	Missing Data for Opening an Account.
11	To Close Account, you must give a First Name	<p>Leave the First Name text field empty only and press the close account button.</p>	Missing Data for closing an account.

		Test data: <ul style="list-style-type: none"> <li>- First Name:</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- Checking</li> </ul>	
12	To Close Account, you must give a last name	Leave the last Name text field empty only and press the close account button. Test data: <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name:</li> <li>- DOB: 2/19/2002</li> <li>- Checking</li> </ul>	Missing Data for closing an account.
13	To Close Account, you must give a DOB	Leave the DOB text field empty only and press the close account button. Test data: <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB:</li> <li>- Initial Deposit: 100</li> <li>- Checking</li> </ul>	Missing Data for closing an account.
14	Successfully Open a Checking Account	Enter Valid Information on all the text fields and press the checking radio button and then press the open account button. Test data: <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- Checking</li> </ul>	Account Opened.
15	Successfully Open a Savings Account as an Unloyal customer	Enter Valid Information on all the text fields and press the Savings radio button and then press the open account button. (Do not press the loyal radio button) Test data:	Account Opened.

		<ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- Savings (Unloyal)</li> </ul>	
16	Successfully Open a Savings Account as a Loyal customer	<p>Enter Valid Information on all the text fields and press the Savings radio button and then press the loyal radio button and then press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- Savings (loyal)</li> </ul>	Account Opened.
17	Opening an account thats already open.	<p>Enter Valid Information on all the text fields and press the Checking radio button and then press the open account button. Then try to open an account with the same details.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Udayan</li> <li>- Last Name: Rai</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- Checking</li> </ul>	Udayan Rai, DOB: 2/19/2002 same account(type) is in the database.
18	Successfully Open a College Checking Account with NB Campus Code	<p>Enter Valid Information on all the text fields and press the College Checking radio button and then press the NB radio button and then press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> </ul>	Account Opened.

		<ul style="list-style-type: none"> <li>- Initial Deposit: 100</li> <li>- College Checking (NB)</li> </ul>	
19	Successfully Open a College Checking Account with NE Campus Code	<p>Enter Valid Information on all the text fields and press the College Checking radio button and then press the NE radio button and then press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- College Checking (NE)</li> </ul>	Account Opened.
20	Successfully Open a College Checking Account with CA Campus Code	<p>Enter Valid Information on all the text fields and press the College Checking radio button and then press the CA radio button and then press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- College Checking (CA)</li> </ul>	Account Opened.
21	Unsuccessfully open a Money Market Account due to insufficient initial deposit.	<p>Enter Information on all the text fields and press the Money Market Radio button and then press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 2499</li> <li>- Money Market</li> </ul>	Minimum of \$2500 to open a MoneyMarket account.
21	Successfully open a Money Market Account	Enter Valid Information on all the text fields and press the Money	Account opened

		<p>Market Radio button and then press the open account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 2501</li> <li>- Money Market</li> </ul>	
22	Successfully close a Checking Account	<p>Enter Valid Information on all the text fields and press the checking radio button and then press the Close account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Checking</li> </ul>	Account Closed
23	Successfully Close a Savings Account	<p>Enter Valid Information on all the text fields and press the Saving radio button and then press the Close account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Savings</li> </ul>	Account Closed
24	Successfully Close a College Checking Account	<p>Enter Valid Information on all the text fields and press the College Checking radio button and then press the Close account button.</p> <p>Test data:</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- College Checking</li> </ul>	Account Closed.
25	Successfully Close a Money Market Account	<p>Enter Valid Information on all the text fields and press the Money Market radio button and then</p>	Account closed.

		press the Close account button. Test data: <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Money Market</li> </ul>	
26	Successfully Reopen an Account	Enter Valid Information on all the text fields and press the checking radio button and then press the open account button. Then Press the close account button. Then Press the open Account button. Test data: <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- Money Market</li> </ul>	Account Reopened.
27	Closing An account that does not exist in the database	Enter Information from an account that does not exist on all the text fields and press the close account button. <ul style="list-style-type: none"> <li>- First Name: Obama</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Initial Deposit: 100</li> <li>- Checking</li> </ul>	Checking::Obama a Gupta, DOB: 2/19/2002::Balance \$0.00 is not in database.
28	Unsuccessful Deposit with due to invalid Amount	Enter info for all text fields and press deposit button <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: AAA</li> <li>- Checking</li> </ul>	Not a Valid Amount
29	Unsuccessful Deposit due to invalid Amount	Enter info for all text fields and press deposit button <ul style="list-style-type: none"> <li>- First Name: Garvit</li> </ul>	Deposit- amount cannot be 0 or negative.

		<ul style="list-style-type: none"> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: -100</li> <li>- Checking</li> </ul>	
30	Unsuccessful Deposit due to account not existing	Enter text fields except without first making the account with the same info and press deposit <ul style="list-style-type: none"> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 100</li> <li>- Checking</li> </ul>	Neel Gupta, DOB: 2/19/2002 is not in the database.
31	Unsuccessful Withdrawal with due to invalid Amount	Enter info for all text fields and click Withdrawal <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: AAA</li> <li>- Checking</li> </ul>	Not a valid amount.
32	Unsuccessful Withdrawal with due to invalid Amount	Enter info for all text fields and click Withdrawal <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: -100</li> <li>- Checking</li> </ul>	Deposit- amount cannot be 0 or negative.
33	Unsuccessful Deposit due to account not existing	Enter text fields except without first making the account with the same info and press Withdrawal <ul style="list-style-type: none"> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 100</li> <li>- Checking</li> </ul>	Neel Gupta, DOB: 2/19/2002 Checking is not in the database.
34	Print All Accounts if database is empty	Click on Print All accounts when the database has no accounts	The Account Database is empty!
35	Print All Accounts when there are accounts present	Add 3 Accounts, and then click the Print All Accounts button.	Checking::Garvit Gupta, DOB: 2/19/2002::Bala



		3 Accounts to add in this order: <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 100</li> <li>- Checking</li> <li>- First Name: Udi</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 100</li> <li>- Checking</li> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 100</li> <li>- Checking</li> </ul>	nce \$100.00 Checking::Udi Gupta, DOB: 2/19/2002::Bala nce \$100.00 Checking::Neel Gupta, DOB: 2/19/2002::Bala nce \$100.00
36	Print By Account Type when there are no accounts present	Click on Print All accounts by type when the database has no accounts	Account Database is empty!
37	Print By Account Type when there are accounts present.	Add 4 Accounts, and then click the Print All Accounts by type button.  4 Accounts to add in this order: <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 100</li> <li>- Savings</li> <li>- First Name: Udi</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 100</li> <li>- Checking</li> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> </ul>	Checking::Udi Gupta, DOB: 2/19/2002::Bala nce \$100.00 Money Market Savings::Neel Gupta, DOB: 2/19/2002::Bala nce \$2,600.00:: Loyal:: withdrawal: 0 Money Market Savings::Dhruv Gupta, DOB: 2/19/2002::Bala nce \$2,600.00:: Loyal:: withdrawal: 0 Savings::Garvit

		<ul style="list-style-type: none"> <li>- DOB: 2/19/2002</li> <li>- Amount: 2600</li> <li>- Money Market</li> <li>- First Name: Dhruv</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 2600</li> <li>- Money Market</li> </ul>	Gupta, DOB: 2/19/2002::Balance \$100.00
38	Calculate Interest and Fees with Checking Account- Fee should be waived	Add a checking account and then click Calculate interest and fees. <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 1000</li> <li>- Checking</li> </ul>	Checking::Garvit Gupta, DOB: 2/19/2002::Balance \$1,000.00::fee \$0.00::monthly interest \$0.08
39	Calculate Interest and Fees with Checking Account- Fee should be not be waived	Add a checking account and then click Calculate interest and fees. <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 500</li> <li>- Checking</li> </ul>	Checking::Garvit Gupta, DOB: 2/19/2002::Balance \$500.00::fee \$25.00::monthly interest \$0.04
40	Calculate Interest and Fees with Unloyal Savings Account- Fee should be waived	Add a Savings account and then click Calculate interest and fees. <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 1000</li> <li>- Savings (unloyal)</li> </ul>	Savings::Garvit Gupta, DOB: 2/19/2002::Balance \$1,000.00::fee \$0.00::monthly interest \$0.25
41	Calculate Interest and Fees with Unloyal Savings Account- Fee should be not be waived	Add a Savings account and then click Calculate interest and fees. <ul style="list-style-type: none"> <li>- First Name: Garvit</li> </ul>	Savings::Garvit Gupta, DOB: 2/19/2002::Balance \$200.00::fee

		<ul style="list-style-type: none"> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 200</li> <li>- Savings (unloyal)</li> </ul>	\$6.00::monthly interest \$0.05
42	Calculate Interest and Fees with Loyal Savings Account	<p>Add a Savings account and then click Calculate interest and fees.</p> <ul style="list-style-type: none"> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 1000</li> <li>- Savings (loyal)</li> </ul>	Savings::Neel Gupta, DOB: 2/19/2002::Balance \$1,000.00::Loyal::fee \$0.00::monthly interest \$0.38
43	Calculate Interest College Checking Account	<p>Add a College Checking account and then click Calculate interest and fees.</p> <ul style="list-style-type: none"> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 1000</li> <li>- College Checking (NB)</li> </ul>	College Checking::Neel Gupta, DOB: 2/19/2002::Balance \$1,000.00::NEW_BRUNSWICK::fee \$0.00::monthly interest \$0.21
44	Calculate Interest and fees Money Market Account - Fee should be waived	<p>Add a Money Market account and then click Calculate interest and fees.</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 3000</li> <li>- Money Market</li> </ul>	Money Market Savings::Garvit Gupta, DOB: 2/19/2002::Balance \$3,000.00::Loyal::withdrawal: 0::fee \$0.00::monthly interest \$2.38
45	Calculate Interest and fees Money Market Account - Fee should not be waived	<p>Add a Money Market account and then withdraw money until the account is under 2500 and then click Calculate interest and fees.</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 500</li> </ul>	Money Market Savings::Garvit Gupta, DOB: 2/19/2002::Balance \$500.00::withdrawal: 1::fee \$10.00::monthly interest \$0.33

		- Money Market	
46	Calculate Interest and Fees Money Market Account after Withdrawing 4 times - Fee should not be waived	<p>Add a Money Market account and then withdraw money and then press the withdraw 4 times and then click calculate interest and fees</p> <ul style="list-style-type: none"> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount: 3000</li> <li>- Money Market</li> </ul> <p>Withdraw 5 dollars 4 times.</p>	<p>Money Market Savings::Neel Gupta, DOB: 2/19/2002::Balance \$2,980.00::Loyal::withdrawal: 4::fee \$10.00::monthly interest \$2.36</p>
47	Apply Interest and Fees	<p>Create the following 4 Accounts</p> <ul style="list-style-type: none"> <li>- First Name: Garvit</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount:100</li> <li>- Checking</li> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount:1000</li> <li>- Savings (unloyal)</li> <li>- First Name: Neel</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount:1000</li> <li>- College Checking</li> <li>- First Name: Dhruv</li> <li>- Last Name: Gupta</li> <li>- DOB: 2/19/2002</li> <li>- Amount:3000</li> <li>- Money Market Savings</li> </ul> <p>Then Click Apply Interest and</p>	<p>Checking::Garvit Gupta, DOB: 2/19/2002::Balance \$75.01 Savings::Neel Gupta, DOB: 2/19/2002::Balance \$1,000.25 College Checking::Neel Gupta, DOB: 2/19/2002::Balance \$1,000.21::NEW_BRUNSWICK Money Market Savings::Dhruv Gupta, DOB: 2/19/2002::Balance \$3,002.38::Loyal::withdrawal: 0</p>

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