CZ3002 Advanced Software Engineering Project:

Test Cases & Requirements Test Coverage Report

CashTrack

Version 1.0

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1. User Authentication

1.1 Login

Test case #:	1	Test Case Name:	Login
System:	CashTrack	**Subsystem:**	User Authentication
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user can Login to CashTrack successfully		
Pre-conditions:	User must have a Google Account		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
User opens up CashTrack website		Loads successfully	**PASS**
User clicks on “Login” button		Google authorisation pop-up opens	**PASS**
User enters their login credentials for their GMail account		User is logged in successfully	**PASS**

1.2 Log Out

Test case #:	2	Test Case Name:	Log Out
System:	CashTrack	**Subsystem:**	User Authentication
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user can Log Out of CashTrack successfully		
Pre-conditions:	The user is logged into CashTrack		
Sequence of Actions		**Expected Output**	**PASS/FAIL**

User clicks on the Log out button	User gets logged out and is redirected to the Login page	**PASS**

2. Dashboard

2.1 View Summary of Transactions

Test case #:	3	**Test Case Name:**	View Summary of Transactions
System:	CashTrack	**Subsystem:**	Dashboard
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The dashboard displays the user’s last 3 (in case 3 or more exist) shared transactions. If the user has made less than 3 shared transactions, then only those will be displayed.		
Pre-conditions:	- The user is logged into CashTrack - User must have made one or more shared transactions		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user scrolls down to the bottom of the dashboard		On the right hand side sees his/her last 3 transactions	**PASS**

2.2 View Insights into Spending Patterns

2.2.1 Pie Chart

Test case #:	4	**Test Case Name:**	View Insights into Spending Patterns (Pie Chart)
System:	CashTrack	**Subsystem:**	Dashboard

Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user must be able to view a pie-chart showing the distribution of their personal expenses based on their categories, namely, Food, Travel, Shopping, Entertainment and Others. The user is also able to change the duration of the pie-chart data to daily, monthly and yearly.		
Pre-conditions:	- The user is logged into CashTrack - The user must have entered at least one or more personal expense records		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to "Dashboard" from the sidebar		The user is able to view the pie chart	**PASS**
The user clicks on the pie-chart drop down to change the duration of the pie-chart data statistics		The user is able to view a drop down with options: Daily, Monthly, Yearly	**PASS**
The user selects one of the drop-down options		The pie chart data accordingly shows the distribution for the new time period	**PASS**

2.2.2 Line Chart

Test case #:	5	**Test Case Name:**	View Insights into Spending Patterns (Line Chart)
System:	CashTrack	**Subsystem:**	Dashboard
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	A Line Chart showing the money spent and earned by the user through shared expenses		
Pre-conditions:	- The user is logged into CashTrack - The user must have created at least one or more shared		

	expense records. The user is also able to change the duration of the line-chart data to daily, monthly and yearly.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to “Dashboard” from the sidebar		The user is able to view the pie chart	**PASS**
The user clicks on the line-chart drop down to change the duration of the line-chart data statistics		The user is able to view a drop down with options: Daily, Monthly, Yearly	**PASS**
The user selects one of the drop-down options		The line chart data accordingly shows the distribution for the new time period	**PASS**

2.3 View Personal Spending Limit & Duration of Limit

Test case #:	6	**Test Case Name:**	View Personal Spending Limit & Duration of Limit
System:	CashTrack	**Subsystem:**	Dashboard
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to view a progress bar displaying the percentage of their personal expense limit that they have reached in the given default period (monthly). Further, the user is able to change their progress bar’s time period.		
Pre-conditions:	- The user is logged into CashTrack - The user must have set a personal expense limit		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to “Dashboard” from the sidebar.		The user is able to view the progress bar	**PASS**
The user clicks on the progress bar		The user is able to	**PASS**

drop down to change the duration of the progress bar data statistics	view a drop down with options: Daily, Monthly, Yearly	
The user selects one of the drop-down options	The personal expense limit progress bar data accordingly shows the progress for the new time period	PASS

3. Personal Expenses

3.1 Create New Personal Expense

Test case #:	7	**Test Case Name:**	Create New Personal Expense
System:	CashTrack	**Subsystem:**	Personal Expenses
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to create a new personal expense record with the following details: Label, Tag and Amount. The Tag field is a drop down containing: Food, Travel, Shopping, Entertainment and Others		
Pre-conditions:	The user is logged in		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to the “Personal Expense” page from the sidebar and clicks on the “Add expense” button		An “Add Expense” pop up is displayed	PASS
The user enters a text input for the label and expense amount, and chooses a tag from the tag dropdown		The user’s input is displayed in real time in the fields	PASS
The user clicks on “ADD”		The pop up closes automatically and the personal expense record	PASS

	gets created and is show on the screen, with the user's input details and with the date of creation mentioned as well	
The user clicks on "CANCEL"	The pop-up closes automatically and the personal expense record does not get created	**PASS**

3.2 Edit Personal Expense

Test case #:	8	**Test Case Name:**	Edit Personal Expense
System:	CashTrack	**Subsystem:**	Personal Expenses
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to edit details of existing personal expenses		
Pre-conditions:	- The user is logged into CashTrack - The user must have created at least one or more personal expense records		

Sequence of Actions	**Expected Output**	**PASS/FAIL**
The user clicks on the edit button of an existing expense	A pop up populated with the expense record's details is displayed	**PASS**
The user edits one or more fields of the specific expense record	The user's input is updated in real-time within the pop up	**PASS**
The user clicks on "UPDATE"	The pop up closes	**PASS**

	automatically and the personal expense record gets updated with the new details and is show on the screen, with the user's new input details/	
The user clicks on "CANCEL"	The pop-up closes automatically and the personal expense record does not get updated.	PASS

3.3 Delete Personal Expense

Test case #:	9	**Test Case Name:**	Delete Personal Expense
System:	CashTrack	**Subsystem:**	Personal Expenses
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to delete existing personal expense records		
Pre-conditions:	- The user is logged into CashTrack - The user must have created at least one or more personal expense records		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user clicks on the delete button of an existing expense		A pop up asking the user if they are sure about deleting the expense is displayed	PASS
The user clicks on "YES"		The pop up closes automatically and	PASS

	the personal expense record gets deleted	
The user clicks on “NO”	The pop-up closes automatically and the personal expense record does not get deleted.	**PASS**

4. Shared Expenses

4.1 View Summary of Transactions

Test case #:	10	**Test Case Name:**	View Summary of Transactions
System:	CashTrack	**Subsystem:**	Shared Expenses
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to view a summary of their shared expenses. There are 3 cards, one for the total money they owe friends, one for total money that their friends owe them and one which displays the difference between the latter and the former. The Money You Owe and the Money You Are Owed cards also display the maximum money you owe and are owed respectively.		
Pre-conditions:	- The user is logged into CashTrack - The user must have at least one or more shared expense records		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to the Shared Expense record page from the sidebar		The user is able to view the summary cards at the top of the page	**PASS**

A new shared expense has either been created by the user or the user is a part of the shared expense record created by a friend	The summary cards accordingly update based on the new expense amounts of the new shared expense records.	**PASS**

4.2 Create New Shared Expense

Test case #:	11	**Test Case Name:**	Create New Shared Expense
System:	CashTrack	**Subsystem:**	Shared Expenses
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to create a shared expense record for an expense that involved them paying for someone or multiple people. The user is able to enter details regarding the shared expense such as Label, Tag (a drop down with the following options: Food, Travel, Entertainment, Shopping and Others), Expense Amount, the people/group they shared the expense with, comments they wish to make regarding the expense record, the method of splitting the expense amount such as by ratio, shares etc.		
Pre-conditions:	- The user is logged into CashTrack - The user must be logged in and must have added one or more friends to share an expense with		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to the 'Shared Expenses' page via the sidebar and clicks on the 'Add New Expense' button		An "Add Expense" pop up is displayed with fields for various details regarding the Shared Expense	**PASS**
The user enters a text input for the following fields: label, expense amount, comments and chooses an option from a dropdown for the tag, for		The user's input is displayed in real time in the fields	**PASS**

friend(s)/group they want to split the bill with from their respective dropdowns.		
The user clicks on the 'Split By' button to decide on how to split the bill	A pop up with 5 option tabs is shown. The 5 options are: Equal, Shares, Percentage, Custom and Currency Exchange.	**PASS**
The user clicks on the 'Equal' tab and clicks on 'Calculate'	The expense amount gets split equally between the select friend(s)/group.	**PASS**
The user clicks on the 'Shares' tab and enters the specific share for each friend and clicks on 'Calculate'	The expense amount is calculated accordingly based on the shares distribution input by the user	**PASS**
The user clicks on the 'Percentage' tab and enters the specific percentage that each friend owes and clicks on 'Calculate'	The expense amount is calculated accordingly based on the percentage input by the user	**PASS**
The user clicks on the 'Custom' tab and enters the specific custom amount that each friend owes	The custom amount input by the user is displayed accordingly for each friend	**PASS**
The user clicks on the 'Currency Exchange' tab, picks a specific currency to convert to SGD from the dropdown (Eg. From USD to SGD).The drop down contains INR, USD, AUD, EUR. Then, the user	The custom amount input by the user is converted from that specific currency to SGD and is displayed	**PASS**

enters specific custom amounts for each friend in that particular currency eg. USD. Finally, the user clicks on the 'Calculate' button	accordingly for each friend	
Once the user is satisfied with the amounts calculated, the user clicks on the 'Confirm' button	The Split-By pop up closes automatically and the user is returned to the original 'Add Expense' pop up.	**PASS**
The user clicks on "ADD"	The pop up closes automatically and the shared expense record gets created and is shown on the screen, with the user's input details and with the date of creation mentioned as well. In case the shared expense bill was split between more than one friend, multiple individual records are created for the same expense bill with different recipients.	**PASS**
The user clicks on "CANCEL"	The pop-up closes automatically and the shared expense record does not get created	**PASS**

4.3 Edit Shared Expense

Test case #:	12	**Test Case Name:**	Edit Shared Expense
System:	CashTrack	**Subsystem:**	Shared Expenses

Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to edit an existing shared expense record that they authored (that is, created).		
Pre-conditions:	- The user is logged into CashTrack - The user must have created at least one or more shared expense records		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user clicks on the edit button of an existing expense		A pop up populated with the expense record's details is displayed	**PASS**
The user edits one or more fields of the specific expense record		The user's input is updated in real-time within the pop up	**PASS**
The user clicks on "UPDATE"		The pop up closes automatically and the personal expense record gets updated with the new details and is shown on the screen, with the user's new input details.	**PASS**
The user clicks on "CANCEL"		The pop-up closes automatically and the shared expense record does not get updated.	**PASS**

4.4 Delete Shared Expense

Test case #:	13	**Test Case Name:**	Delete Shared Expense
System:	CashTrack	**Subsystem:**	Shared Expenses

Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to delete an existing shared expense record that they created.		
Pre-conditions:	- The user is logged into CashTrack - The user must have created at least one or more shared expense records		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user clicks on the delete button of an existing shared expense created by them.		A pop up asking the user if they are sure about deleting the expense is displayed	**PASS**
The user clicks on “YES”		The pop up closes automatically and the shared expense record gets deleted	**PASS**
The user clicks on “NO”		The pop-up closes automatically and the shared expense record does not get deleted.	**PASS**

4.5 Add comments to Shared Expense

Test case #:	14	**Test Case Name:**	Add comments to Shared Expense
System:	CashTrack	**Subsystem:**	Shared Expenses
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to add comments to an existing shared expense record.		
Pre-conditions:	- The user is logged into CashTrack - The user must have at least one or more shared		

	expense records.

Sequence of Actions	Expected Output	PASS/FAIL
The user clicks on the comments button of an existing shared expense	A pop up populated with the expense record's comments is displayed. The pop up contains all the past comments.	PASS
The user types out a new comment and clicks on send	The user's new comment is appended to the existing list of comments for that specific expense record	PASS
The user clicks on "CLOSE" within the comment pop up	The pop up closes	PASS

4.6 Settle Up Shared Expense

Test case #:	15	**Test Case Name:**	Settle Up Shared Expense
System:	CashTrack	**Subsystem:**	Shared Expenses
Designed by:	Amrita Ravishankar	**Design Date**	5th April 2021
Executed by:	Amrita Ravishankar	**Execution Date:**	5th April 2021
Short Description:	The user is able to settle up an existing shared expense record created by a friend, to notify them of payment of the expense.		
Pre-conditions:	- The user is logged into CashTrack - The user must have at least one or more shared expense records where they owe money to a friend.		

Sequence of Actions	Expected Output	PASS/FAIL
The user clicks on the "SETTLE UP" button on an existing shared expense card where they owe somebody else	A popup confirming that the author of the shared expense	PASS

(author) money in “SHARED EXPENSES” section, after paying through other means	has been notified of the “SETTLE UP” is displayed	
The author logs in to their account	The author receives a new “NOTIFICATION” that the user has settled up the bill and is given an option to acknowledge (4.7)	**PASS**
The author acknowledges that they have received the payment by clicked the “ACKNOWLEDGE” button on the shared expense card	The user is notified that the author has acknowledged the payment and the Shared Expense Card is removed from the user’s due transactions	**PASS**

4.7 Acknowledge Shared Expense

Test case #:	16	**Test Case Name:**	Acknowledge Shared Expense
System:	CashTrack	**Subsystem:**	Shared Expenses
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user is able to acknowledge an existing shared expense record created by them, to indicate that their friend has cleared the debt and made the payment for the shared expense.		
Pre-conditions:	- The user is logged into CashTrack - The user must have at least one or more shared expense records where they are owed money from a friend.		

Sequence of Actions	**Expected Output**	**PASS/FAIL**
A payee of the Shared Expense	The user receives a	**PASS**

presses the "SETTLE UP" after paying the user	new "NOTIFICATION" that a payee has paid them and have settled up a shared expense	
The user presses the "ACKNOWLEDGE" button on the shared expense card to confirm that they have received money from the payee	A popup is displayed confirming the Acknowledgement has been registered and the payee receives a notification that their settle up has been acknowledged. The shared expense is then removed from the due transactions of the user if all the payees have paid the money.	**PASS**
The user does not press the "ACKNOWLEDGE" button and simply "DISCARDS" the notification because they did not receive money from the payee	The payee receives a notification that their "SETTLE UP" has failed and the Shared Expense remain in the due transactions section	**PASS**

5. My Friends

5.1 Add New Friend

Test case #:	17	**Test Case Name:**	Add New Friend
System:	CashTrack	**Subsystem:**	My Friends
Designed by:	Anusha Datta	**Design Date**	5th April 2021

Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user is able to add new friends via their email.		
Pre-conditions:	- The user is logged into CashTrack - The friend the user is trying to add must have an account with CashTrack		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to the "My Friends" page via the sidebar and clicks on the "Add New Friend" button		A pop up with an input field allowing the user to type an email is displayed.	**PASS**
The user enters a valid email id and clicks on "INVITE"		The user's input is tracked real time and an "Add Friend" invite is sent to the user with the entered email id.	**PASS**
The user with the entered email id accepts the "Add Friend" invite request		The user with the entered email is added to the list of friends' of the current user	**PASS**

5.2 Delete Friend

Test case #:	18	**Test Case Name:**	Delete Existing Friend
System:	CashTrack	**Subsystem:**	My Friends
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user is able to delete a friend that they had previously added		

Pre-conditions:	- The user is logged into CashTrack - The user must have added at least one or more friends		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to the “My Friends” page from the sidebar		A list of the user’s existing (added) friends is displayed	**PASS**
The user clicks on the delete button of a specific user card		A pop up asking the user to confirm their action is displayed	**PASS**
The user clicks on “YES”		The pop up closes automatically, the friend is now deleted from the user’s list of friends	**PASS**

5.3 View All Friend Details

5.3.1 Data Analytics

Test case #:	19	**Test Case Name:**	View All Friend Data Analytics
System:	CashTrack	**Subsystem:**	My Friends
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user must be able to view all analytics of the transaction data with a selected friend		
Pre-conditions:	- The user is logged into CashTrack - The user must have added the friend and have at least one transaction with them		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user clicks on the information button of a friend from the list on the “My Friends” page.		The user must be directed to the “Friend Details” page, where the data analytics can	**PASS**

	be viewed.	
The user navigates to the line chart on the “Friend Details” page.	The user must be able to view the data analytics in the form of a line chart that visualises the transaction history between the user and the selected friend.	**PASS**

5.3.2 Latest Transactions

Test case #:	20	**Test Case Name:**	View All Friend Latest Transactions
System:	CashTrack	**Subsystem:**	My Friends
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user must be able to view all latest transaction history with a selected friend		
Pre-conditions:	- The user is logged into CashTrack - The user must have added the friend and have at least one transaction with them		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user clicks on the information button of a friend from the list on the “My Friends” page.		The user must be directed to the “Friend Details” page, where the transaction history can be viewed.	**PASS**
The user navigates to the Transaction History on the “Friend Details” page.		The user must be able to view all the latest transaction history between the user and the selected friend. All	**PASS**

	these shared expense records must be listed in descending order by date.	

6. My Groups

6.1 Create New Groups

Test case #:	21	**Test Case Name:**	Create New Groups
System:	CashTrack	**Subsystem:**	My Groups
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user must be able to create groups by adding existing friends to them.		
Pre-conditions:	- The user is logged into CashTrack - The user should have at least one added friend		

Sequence of Actions	**Expected Output**	**PASS/FAIL**
The user navigates to the "My Groups" page via the sidebar and clicks on the "Create New Group" button	A pop up with an input field allowing the user to type multiple email IDs is displayed.	**PASS**
The user enters an invalid email ID and clicks on "INVITE"	The form should display an error message prompting the user to enter valid email ID.	**PASS**
The user enters a valid email ID and clicks on "INVITE"	The user's inputs are tracked real time and an "New Group" invite is sent to all users with the entered	**PASS**

	email IDs.	
The user with the entered email id accepts the “New Group” invite request	The new group is created with the user and friends as members.	**PASS**

6.2 Add New Members to Group

Test case #:	22	**Test Case Name:**	Add New Members to Groups
System:	CashTrack	**Subsystem:**	My Groups
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user can add new members to an existing group.		
Pre-conditions:	- The user is logged into CashTrack - The user has at least one group, and at least one additional friend who is not a part of this group		

Sequence of Actions	**Expected Output**	**PASS/FAIL**
The user clicks on the information button of a group from the list on the “My Groups” page.	The user must be directed to the “Group Details” page.	**PASS**
The user clicks on the “Add Friend” button on the “Group Details” page	A pop up with an input field allowing the user to type an email ID is displayed.	**PASS**
The user enters an invalid email ID and clicks on “INVITE”	The form should display an error message prompting the user to enter valid email ID.	**PASS**
The user enters a valid email ID and	The user’s inputs	**PASS**

clicks on “INVITE”	are tracked real time and a Group Invite is sent to the user with the entered email IDs.	
The user with the entered email ID accepts the Group Invite request	The friend invited by the user is added to the existing group.	**PASS**

6.3 Remove Members from Group

Test case #:	23	**Test Case Name:**	Remove Existing Members from Group
System:	CashTrack	**Subsystem:**	My Groups
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user must be able to remove a member from an existing group.		
Pre-conditions:	- The user is logged into CashTrack - The user has at least one group, and at least two friends in it		

Sequence of Actions	**Expected Output**	**PASS/FAIL**
The user clicks on the information button of a group from the list on the “My Groups” page.	The user must be directed to the “Group Details” page.	**PASS**
The user clicks on the “Remove” button for a specific friend from the Group Members list on the “Group Details” page	The system displays a pop up to confirm the removal of the member from the group.	**PASS**
The user confirms the action of	The friend is	**PASS**

removing the member from the group.	removed from the group by the user.	

6.4 Delete Group

Test case #:	24	**Test Case Name:**	Delete Group
System:	CashTrack	**Subsystem:**	My Groups
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user must be able to delete an existing group.		
Pre-conditions:	- The user is logged into CashTrack - The user has at least one group, and at least one friend in it		

Sequence of Actions	**Expected Output**	**PASS/FAIL**
The user clicks on the information button of a group from the list on the “My Groups” page.	The user must be directed to the “Group Details” page.	**PASS**
The user clicks on the “Delete Group” on the “Group Details” page	The system displays a pop up to confirm the deletion of the group.	**PASS**
The user confirms the action of deletion of the group.	The entire group is deleted by the user.	**PASS**

6.5 View All Group Details

6.5.1 Data Analytics

Test case #:	25	**Test Case Name:**	View All Group Data Analytics
System:	CashTrack	**Subsystem:**	My Groups

Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user must be able to view all analytics of the transaction data with a selected group		
Pre-conditions:	- The user is logged into CashTrack - The user must have at least one group and have at least one transaction with them		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user clicks on the information button of a group from the list on the "My Groups" page.		The user must be directed to the "Group Details" page, where the data analytics can be viewed.	**PASS**
The user navigates to the line chart on the "Group Details" page.		The user must be able to view the data analytics in the form of a line chart that visualises the transaction history between the user and the selected group.	**PASS**

6.5.2 Latest Transactions

Test case #:	26	**Test Case Name:**	View All Group Latest Transactions
System:	CashTrack	**Subsystem:**	My Groups
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user must be able to view all latest transaction history with a selected group		
Pre-conditions:	- The user is logged into CashTrack		

	- The user must have at least one group and have at least one transaction with them

Sequence of Actions	Expected Output	PASS/FAIL
The user clicks on the information button of a group from the list on the "My Groups" page.	The user must be directed to the "Group Details" page, where the latest transactions can be viewed.	PASS
The user navigates to the Transaction History on the "Group Details" page.	The user must be able to view all the latest transaction history between the user and the selected group. All these shared expense records must be listed in descending order by date.	PASS

7. Chat

7.1 Create New Chat

Test case #:	27	**Test Case Name:**	Create New Chat
System:	CashTrack	**Subsystem:**	Chat
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user must be able to start a new conversation with friends they have added		
Pre-conditions:	- The user is logged into CashTrack - The user must have added at least one or more friends		

Sequence of Actions	Expected Output	PASS/FAIL

The user navigates to the “Chat” page from the sidebar and clicks on the “Create New Chat” button	A list of the user’s added friends is displayed	**PASS**
The user clicks on one of the friend’s names from the list	A new conversation is created with the selected friend and the user is able to send the friend a message	**PASS**

7.2 Send and Receive Chat Messages

Test case #:	28	**Test Case Name:**	Send and Receive Chat Messages
System:	CashTrack	**Subsystem:**	Chat
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user is able to send text messages, images, GIFs and is able to receive messages from friends they have added.		
Pre-conditions:	- The user is logged into CashTrack - The user must have started a conversation with a friend to send messages. To receive messages the user must have added one or more friends.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to the Chat page via the sidebar		The user is able to view their existing chats	**PASS**
The user clicks on an existing chat, types and sends a new message		The new message is reflected in the chat and the time at which the message was sent is displayed as well	**PASS**
User’s friend sends them a message		The new message from the user’s	**PASS**

	friend is visible to the user	

7.3 Delete Chat

Test case #:	29	**Test Case Name:**	Delete Chat
System:	CashTrack	**Subsystem:**	Chat
Designed by:	Anusha Datta	**Design Date**	5th April 2021
Executed by:	Anusha Datta	**Execution Date:**	5th April 2021
Short Description:	The user is able to delete existing chats		
Pre-conditions:	- The user is logged into CashTrack - The user must have one or more existing chats		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user navigates to the Chat page via the sidebar		The user is able to view their existing chats	**PASS**
The user clicks on the delete button next to a specific chat		A pop up asking the user to confirm their action is displayed	**PASS**
The user clicks on “YES”		The pop up closes automatically, the chat is deleted and the list of chats is updated accordingly	**PASS**
The user clicks on “NO”		The pop up closes automatically and the chat is not deleted	**PASS**

8. Personal Account

8.1 Set Personal Spending Limit

Test case #:	30	**Test Case Name:**	Set Personal Spending Limit
System:	CashTrack	**Subsystem:**	Personal Account
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user sets their personal spending limit		
Pre-conditions:	The user must be logged in		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user selects the option to set personal spending limit		The system displays the form for user to set spending limit	**PASS**
The user inputs their desired spending limit amount		The user's input is updated in real-time within the form displayed	**PASS**
The user selects on "Set Limit"		The spending amount inputted by the user will be updated for the particular user in the database. The system then updates the view with the newly set expense limit amount.	**PASS**

8.2 Set Time Frame for Limit

Test case #:	31	**Test Case Name:**	Set Time Frame for Spending Limit

System:	CashTrack	**Subsystem:**	Personal Account
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user sets the time frame for spending limit		
Pre-conditions:	The user must be logged in		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user selects the option to set personal spending limit		The system displays the form for user to set spending limit	**PASS**
The user selects the desired time frame for which the spending limit would be in effect		The user's selected time frame would be displayed in the form as a confirmation view before the form is submitted	**PASS**
The user selects the homepage icon		The user will be redirected back to the homepage (dashboard view)	**PASS**

8.3 Set Percentage for Reminder

Test case #:	32	**Test Case Name:**	Set Percentage for Spending Reminder
System:	CashTrack	**Subsystem:**	Personal Account
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user sets the percentage for spending limit reminder		
Pre-conditions:	- The user must be logged in.		

	- The user must have already keyed in the spending limit amount.

Sequence of Actions	Expected Output	PASS/FAIL
The user selects the option to set personal spending limit	The system displays the form for user to set spending limit	PASS
The user sets the desired percentage of the inputted spending limit at which the reminder would be sent to the user	The user's input is updated in real-time within the form displayed	PASS
The user selects the homepage icon	The user will be redirected back to the homepage (dashboard view)	PASS

8.4 Delete Account

Test case #:	33	**Test Case Name:**	Delete User Account
System:	CashTrack	**Subsystem:**	Personal Account
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user deletes their account		
Pre-conditions:	The user must be logged in.		

Sequence of Actions	Expected Output	PASS/FAIL
The user selects the option to delete their account from the "Personal Account" page.	The system displays a pop up to confirm the deletion of the account.	PASS
The user confirms their account deletion.	The account and all corresponding data	PASS

	is deleted.	

9. Notifications

9.1 Receive Notification

9.1.1 Personal Expense Limit Reached (by percentage set)

Test case #:	34	**Test Case Name:**	Receive Notification - Personal Expense Limit Reached (by percentage set)
System:	CashTrack	**Subsystem:**	Notifications
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user receives a notification when they reach their personal expense limit		
Pre-conditions:	- The user must be logged in. - The user must have set a personal expense limit.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user reaches or exceeds their set personal expense limit		The user will receive a notification about reaching the personal expense limit	**PASS**

9.1.2 Shared Expense Record Created

Test case #:	35	**Test Case Name:**	Receive Notification - Shared Expense Record Created
System:	CashTrack	**Subsystem:**	Notifications

Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user receives a notification when a shared expense record that they are involved in is created.		
Pre-conditions:	The user must be logged in.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user creates a shared expense record		The user will receive a notification about the creation of a shared expense record	**PASS**
Another user creates a shared expense record that the user is involved in		The user will receive a notification about the creation of a shared expense record	**PASS**

9.1.3 Shared Expense Record Edited

Test case #:	36	**Test Case Name:**	Receive Notification - Shared Expense Record Edited
System:	CashTrack	**Subsystem:**	Notifications
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user (payer) receives a notification when a shared expense record that they are involved in is edited.		
Pre-conditions:	- The user must be logged in. - The expense record was added by the user (Payee).		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user(payee) edits a shared		The user will	**PASS**

expense record	receive a notification about the edit of a shared expense record	

9.1.4 Shared Expense Record Comments Added

Test case #:	37	**Test Case Name:**	Receive Notification - Shared Expense Record Comments Added
System:	CashTrack	**Subsystem:**	Notifications
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user (Payer /Payee) updates / add a comment for Shared Expense Record		
Pre-conditions:	The user must be logged in.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
Payer / Payee updates the comment section of a Shared Expense Record		The users in the Shared Expense Record will receive a notification about the added comments of a shared expense record	**PASS**

9.1.5 Shared Expense Record Settled Up

Test case #:	38	**Test Case Name:**	Receive Notification - Shared Expense Record Settled Up
System:	CashTrack	**Subsystem:**	Notifications

Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user (Payer) will acknowledge that the shared expense record has been settled.		
Pre-conditions:	- The user (Payer) is logged into the system. - The expense record was added by the user (Payee) and not settled up by the user (Payer)		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user (Payer) selects to settle up the shared expense record.		The system forwards acknowledgement to notification list	**PASS**
The user (Payee) receives a notification alert and clicks on it.		The system redirects the user (Payee) to the respective settled up shared expense record	**PASS**

9.1.6 Shared Expense Record Acknowledged

Test case #:	39	**Test Case Name:**	Receive Notification - Shared Expense Record Acknowledged
System:	CashTrack	**Subsystem:**	Notifications
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user (Payee) will acknowledge that the shared expense payment has been received from the user (Payer).		
Pre-conditions:	- The user (Payee) is logged into the system. - The expense record was added by the user (Payee) and settled up by the user (Payer).		

Sequence of Actions	Expected Output	PASS/FAIL
The user (Payee) selects to confirm acknowledgement of shared expense record.	The system forwards confirm acknowledgement to notification list	PASS
The user (Payer) receives a notification alert and clicks on it.	The system redirects the user (Payer) to the respective acknowledged shared expense record.	PASS

9.1.7 Shared Expense Record Deleted

Test case #:	40	Test Case Name:	Receive Notification - Shared Expense Record Deleted
System:	CashTrack	Subsystem:	Notifications
Designed by:	Mehul Kumar	Design Date	5th April 2021
Executed by:	Mehul Kumar	Execution Date:	5th April 2021
Short Description:	The user (Payee) will delete the existing shared expense record.		
Pre-conditions:	- The user (Payee) is logged into the system. - Expense records (Group) already created.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user (Payee) deletes the particular shared expense		The system no longer displays the particular shared expense to all user (Payee and Payer)	PASS

9.1.8 New Chat Message

Test case #:	41	**Test Case Name:**	Receive Notification - New Chat Message
System:	CashTrack	**Subsystem:**	Notifications
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	The user receives a chat notification		
Pre-conditions:	- The user must be logged in. - The user must already have friends in their friends list.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
Friend of the user sends a text message to the user		The system forwards the text message to the user's chat mailbox and notification list	**PASS**
The user receives a notification alert and clicks on it		The system redirects the user to the respective friend chat window	**PASS**
User reads text message sent by friend		The system displays the text message to the user	**PASS**

10. Informational Sections

10.1 View About Page

Test case #:	42	**Test Case Name:**	View About Page
System:	CashTrack	**Subsystem:**	Informational Pages
Designed by:	Mehul Kumar	**Design Date**	5th April 2021

Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	User wants to view the About Page of CashTrack		
Pre-conditions:	The user must be logged in.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user selects About Page tab		The system displays CashTrack About Page to the user	**PASS**

10.2 View FAQ (Frequently Asked Questions) Page

Test case #:	43	**Test Case Name:**	View FAQ Page
System:	CashTrack	**Subsystem:**	Informational Pages
Designed by:	Mehul Kumar	**Design Date**	5th April 2021
Executed by:	Mehul Kumar	**Execution Date:**	5th April 2021
Short Description:	User wants to view the FAQ page of CashTrack		
Pre-conditions:	The user must be logged in.		
Sequence of Actions		**Expected Output**	**PASS/FAIL**
The user selects FAQ Page tab		The system displays CashTrack FAQ Page to the user	**PASS**