

1. Testing Strategy

This document will list various test cases that will be created and executed to verify the functionality and usability of the Smoothie Cart Manager app developed by Team 80. The testing will be done manually and a matrix of test cases will be created during the development of systems and issues detected by the tests will be logged on github.com for developers to resolve.

2. Test Cases

The app consists of 3 main buttons in the main menu and test cases below are organized by these three sections;

2.1. Customer Button

The “Customer” button consists of subsequent buttons to manage customer information in which you can; “Add”, “Edit” and “Print Transactions” for a customer.

Test Number (T)	Test	Expected Result	Actual Result	Tester	Pass/ Fail	Comments
1.1.1	Click on Customer button	Manage Customer menu is displayed	Manage Customer menu is displayed	Gandharv	Pass	
1.1.2	Check back button functionality for this whole section.	Takes user back to previous screens	Takes user back to previous screens	Gandharv	Pass	
1.2.1	“Manage Customer” click ADD	Add Customer Info is displayed	Add Customer Info is displayed	Gandharv	Pass	

1.2.2	"Add Customer Info" allows user to enter name, address and email.	The text fields can be populated	The text fields can be populated	Gandharv	Pass	
1.2.3	Customer ID is automatically generated.	Generates 32-bit unique hexadecimal ID	Generates 32-bit unique hexadecimal ID	Gandharv	Pass	
1.2.4	Add customer to database.	Click on SUBMIT button adds customer to DB.	Click on SUBMIT button adds customer to DB.	Gandharv	Pass	
1.2.5	Indicate if customer was successfully added	Once the customer is successfully added a popup message informs the user.	Once the customer is successfully added a popup message informs the user.	Gandharv	Pass	
1.2.6	Check if name field is empty and report error.	If the name field is empty the user gets a notification to populate name field.	If the name field is empty the user gets a notification to populate name field.	Gandharv	Pass	
1.2.7	Check if the email format is correct else report error.	Under the Email field check if a valid email format is typed and if not notify	Under the Email field check if a valid email format is typed and if not notify	Gandharv	Pass	

		user to fix it.	user to fix it.			
1.3.1	Manage Customer click EDIT	Edit Customer Info is displayed	Edit Customer Info is displayed	Gandharv	Pass	
1.3.2	SCAN QR button functionality	Automatically fills in the customer information; name, address and email.	Automaticall y fills in the customer information; name, address and email.	Gandharv		
1.3.3	SCAN QR customer ID validation	SCAN QR button loads customer ID in correct field which is non-editable	SCAN QR button loads customer ID in correct field which is non-editable	Gandharv	Pass	
1.3.4	Edit Customer Info allows the user information to be updated.	Can edit name, address, email and when SUBMIT is clicked, the info is updated.	Can edit name, address, email and when SUBMIT is clicked, the info is updated.	Gandharv	Pass	
1.3.5	Edit customer notification	After the SUBMIT button is hit the user is notified that the record was updated or error is reported.	After the SUBMIT button is hit the user is notified that the record was updated or error is reported.	Gandharv	Pass	

1.3.6	Print Transactions , SCAN QR functionality	SCAN QR button loads Name and Customer ID in non-editable fields.	SCAN QR button loads Name and Customer ID in non-editable fields.	Gandharv	Pass	
1.3.7	Print Transactions , PRINT functionality	PRINT button prints customer purchase history in a table consisting of Transaction ID, Date, Price and Discount Type	PRINT button prints customer purchase history in a table consisting of Date, Price and Discount Type. The table is scrollable if long.	Gandharv	Pass	

2.2. Rewards Button

The “Rewards” button consists of subsequent buttons to set rewards program and also to get the rewards information for a particular user.

Test Number (T)	Test	Expected Result	Actual Result	Tester	Pass/ Fail	Comments
2.1.1	Click on Rewards button	Rewards Manager menu is displayed	Rewards Manager menu is displayed	Gandharv	Pass	
2.1.2	Check back button functionality for this whole section.	Takes user back to previous screens	Takes user back to previous screens	Gandharv	Pass	

2.2.1	Click on SET to go to Set Rewards menu	Takes user to Set Rewards menu	Takes user to Set Rewards menu	Gandharv	Pass	
2.2.2	Load default amounts specified in requirements for Set Rewards menu	Credit Threshold = 50, Credit Amount = 5, Gold Status Threshold = 500, Discount % = 5	Credit Threshold = 50, Credit Amount = 5, Gold Status Threshold = 500, Discount % = 5	Gandharv	Pass	
2.2.3	Fields in Set Rewards editable	Modifiable rewards specifications	Modifiable rewards specifications	Gandharv	Pass	
2.2.4	Update Set Rewards using SUBMIT with notification	Successfully updated rewards and pop up notification	Successfully updated rewards and pop up notification	Gandharv	Pass	
2.3.1	Click on GET to go to Get Rewards menu	Takes user to Get Rewards menu	Takes user to Get Rewards menu	Gandharv	Pass	
2.3.2	SCAN QR functionality	SCAN QR button should scan QR code and return the associated field values for the customer. The field values are Gold Status, Credits and Expiration	SCAN QR button should scan QR code and return the associated field values for the customer. The field values are Gold Status, Credits and	Gandharv	Pass	

		Date	Expiration Date			
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2.3. Transaction Button

The “Transaction” button allows the user to process a transaction for the customer based on his/her purchase by applying the relevant discounts.

Test Number (T)	Test	Expected Result	Actual Result	Tester	Pass/ Fail	Comments
3.1.1	Click on Transaction button	Transactions Summary page is displayed	Transaction s Summary page is displayed	Gandharv	Pass	
3.1.2	Check back button functionality for this whole section.	Takes user back to previous screens	Takes user back to previous screens	Gandharv	Pass	
3.1.3	SCAN QR functionality	SCAN QR button should scan QR code and return the associated field values for the customer. The field values are Customer Name and Customer ID.	SCAN QR button should scan QR code and return the associated field values for the customer. The field values are Customer Name and Customer ID.	Gandharv	Pass	
3.1.4	Price field takes number input	Enter non-number	Enter non-number returns	Gandharv	Pass	

	else reports error	returns error.	error.			
3.1.5	SUBMIT button functionality - 1	After entering price, the user hits submit to calculate subsequent fields.	After entering price, the user hits submit to calculate subsequent fields.	Gandharv	Pass	
3.1.6	SUBMIT button functionality - 2	Date field automatically populated after hitting SUBMIT button	Date field automatically populated after hitting SUBMIT button	Gandharv	Pass	
3.1.7	SUBMIT button functionality – 3	Discount amount correctly calculated after SUBMIT button	Discount amount correctly calculated after SUBMIT button	Gandharv	Pass	
3.1.8	SUBMIT button functionality – 4	Discount Type code correctly displayed on clicking SUBMIT	Discount Type code correctly displayed on clicking SUBMIT	Gandharv	Pass	
3.1.9	SUBMIT button functionality – 5	Final price after discounts automatically calculated after clicking SUBMIT	Final price after discounts automatically calculated after clicking SUBMIT	Gandharv	Pass	
3.1.10	Correct gold status calculated	Default discount of 5% was	Default discount of 5% was	Gandharv	Pass	

	and applied on SUBMIT	applied correctly	applied correctly			
3.1.11	Correct credit calculated and applied on SUBMIT - 1	Default credit of \$5 was applied to purchases over \$50	Default credit of \$5 was applied to purchases over \$50	Gandharv	Pass	
3.1.12	Correct credit calculated and applied on SUBMIT - 2	Credit carried over and added to current purchase correctly.	Credit carried over and added to current purchase correctly.	Gandharv	Pass	
3.1.13	Correct credit calculated and applied on SUBMIT - 3	If credit subtracted from final price is less than \$50 new credit for spending \$50 is not applied	If credit subtracted from final price is less than \$50 new credit for spending \$50 is not applied	Gandharv	Pass	
3.1.14	Correct combo of gold status and credit calculated and applied on SUBMIT	If the customer has gold status and previous credit, it is applied according to requirement correctly	If the customer has gold status and previous credit, it is applied according to requirement correctly	Gandharv	Pass	
3.1.15	APPLY TRANSACTION button	Scans credit card and processes transaction	Scans credit card and processes transaction	Gandharv	Pass	
3.1.16	APPLY TRANSACTION	Notifies when	Notifies when	Gandharv	Pass	

	ON button notification – 1	transaction is successfully complete with transaction ID	transaction is successfully complete with transaction ID			
3.1.17	APPLY TRANSACTION button notification – 1	Notifies when transaction is not successful with error	Notifies when transaction is not successful with error	Gandharv	Pass	

2.4. Email Notifications


Email notifications are sent out on 2 occasions and these scenarios were part of the tests.

Test Number (T)	Test	Expected Result	Actual Result	Tester	Pass / Fail	Comments
4.1.1	Email is sent when a customer gets credit.	Email with default credit subject and credit message is sent when a credit is applied to transaction	Email with default subject and credit message is sent when a credit is applied to transaction	Gandharv	Pass	
4.1.2	Emails is sent when he/she achieves “Gold” Status.	Email with default “Gold Status” subject and message is sent when a customer achieves	Email with default “Gold Status” subject and message is sent when a customer	Gandharv	Pass	

		"Gold" status.	achieves "Gold" status.			
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3. Issue Tracking and Reporting

While testing issues identified were logged in Github Issues page and the team members resolved them as they were created. Presented below is a screenshot of some issues created and resolved during the testing process. All the issues of that were detected and resolved for this project can be found on the [project issues page](#).


[gt-ud-softeng](#) / [6300Fall15Team80](#) PRIVATE
Unwatch 24
Star 1
Fork 0

Issues
Pull requests
Labels
Milestones

Filters
New issue

× Clear current search query, filters, and sorts

☐
3 Open
54 Closed

Author
Labels
Milestones
Assignee
Sort

☐
🟢
GOLD Status discount round off error
👤
0

#57 opened 6 hours ago by gkashinath

☐
🔴
Re-implementing GUI in transaction summary
👤
0

#56 opened 21 hours ago by computerwonk

☐
🔴
LOOKUP button in Edit Customer Info needs to go
👤
1

#55 opened 23 hours ago by gkashinath

☐
🔴
Creating new DBAdapter Instances in code
👤
2

#54 opened 5 days ago by computerwonk

☐
🔴
GUI workflow for adding a transaction redesign
👤
0

#53 opened 5 days ago by computerwonk

☐
🔴
Rewards -> Get
👤
1

#52 opened 5 days ago by gkashinath

☐
🔴
add credit card failure popup
👤
0

#51 opened 5 days ago by joelrh

☐
🔴
remove the "Process Transaction" page and replace it with a "Process CC button"
👤
0

#50 opened 5 days ago by joelrh

☐
🔴
add calculate final price button to the "Add Transaction" page
👤
0

#49 opened 5 days ago by joelrh

☐
🔴
the only field that is editable is the Price on "Add Transaction"
👤
0

#48 opened 5 days ago by joelrh

☐
🔴
Transaction Summary title should be Add Transaction
👤
0

#47 opened 5 days ago by joelrh

☐
🔴
change "Transaction" button to be "Add Transaction"
👤
0

#46 opened 5 days ago by joelrh