Lab 3: Test Cases

Test Case Number	TC 01
Test Item	User Login (Sign in Field)
Pre-conditions	User has launched the app
Post-conditions	User has successfully logged into their email account
Input Specifications	Case 1: User has entered an email address User has entered a password Alternative Case: User presses Google sign in button
Expected Output Specifications	 User is signed in and the basic menu is displayed
Pass/Fail Criteria	Pass Criteria User has entered a valid username and password combination User has been successfully authenticated by Google token Fail Criteria User enters an email/password that exceeds the character limit User fails to enter correct email User fails to enter correct password
Assumptions and Constraints	Assumptions • Assume if we have a valid email and password combination, or a valid google account, we login Constraints • Email account must exist
Dependencies	None

Test Case Number	TC 02
Test Item	Create Account

Pre-conditions	User has launched the app
Post-conditions	User has created an account
Input Specifications	 User has pressed create account button User has entered a valid email address and password
Expected Output Specifications	User has created account and successfully logged in
Pass/Fail Criteria	Pass Criteria User enters email address and password that meet criteria Fail Criteria User does not enter email address and password that meet criteria
Assumptions and Constraints	Assumptions Assume the user is entering valid criteria in order to register a new account Constraints User must enter valid alphanumeric characters along with appropriate @ symbol
Dependencies	None

Test Case Number	TC 03
Test Item	User Logout
Pre-conditions	User has successfully logged in
Post-conditions	User has successfully logged out
Input Specifications	User presses logout button on home menu
Expected Output Specifications	User is prompted to logoutUser is logged out
Pass/Fail Criteria	Pass Criteria User is successfully prompted to logout

	Fail Criteria • User fails to logout
Assumptions and Constraints	Assumptions
Dependencies	TC 01

Test Case Number	TC 04
Test Item	Launch Scanner
Pre-conditions	User has successfully logged in
Post-conditions	User has successfully launched the scanner feature
Input Specifications	User presses scanner button on home menu
Expected Output Specifications	Scanner page launches
Pass/Fail Criteria	Pass Criteria User successfully launches scanner page Fail Criteria User fails to launch scanner
Assumptions and Constraints	Assumptions
Dependencies	TC 01

Test Case Number	TC 05
Test Item	Scan Barcode
Pre-conditions	 User has successfully logged in User has successfully launched scanner

Post-conditions	User scans barcode
Input Specifications	User scans barcode with camera
Expected Output Specifications	Scanner returns product information
Pass/Fail Criteria	Pass criteria User successfully scans barcode Application returns item information Fail Criteria User fails to scan barcode
Assumptions and Constraints	Assumptions
Dependencies	TC 01, TC 04

END SPRINT 1

Test Case Number	TC 06
Test Item	Display products nearby
Pre-conditions	 User has successfully logged in User has scanned a product's barcode
Post-conditions	User is shown available products nearby to purchase
Input Specifications	User presses map button
Expected Output Specifications	 Google maps view shows user a list of products nearby that are available for purchase
Pass/Fail Criteria	Pass Criteria User is able to view map with nearby products Fail Criteria Map fails to load
Assumptions and Constraints	Assumptions

	 Assume user is logged in Assume scanner has been launched Assume product has been scanned Constraints Product must be available
Dependencies	TC 01, TC 04, TC 05

Test Case Number	TC 07
Test Item	View Scan History
Pre-conditions	User has successfully logged inUser has scanned a barcode
Post-conditions	User has past scan history displayed
Input Specifications	User presses view scan history button
Expected Output Specifications	User has a list of previous item scan history returned to them
Pass/Fail Criteria	Pass Criteria
Assumptions and Constraints	Assumptions
Dependencies	TC 01, TC 04, TC 05

Test Case Number	TC 08
Test Item	Delete Scan History
Pre-conditions	User has successfully logged inUser has scanned a barcode
Post-conditions	User's deletes product from scan history
Input Specifications	 User presses delete scan history button User chooses product to delete
Expected Output Specifications	 Specified item is no longer present in scan history
Pass/Fail Criteria	Pass criteria
Assumptions and Constraints	Assumptions
Dependencies	TC 01, TC 04, TC 05, TC 07

END SPRINT 2

Test Case Number	TC 09
Test Item	Get directions to store location from scan
Pre-conditions	 User has successfully logged in User has scanned item User has GPS enabled for app
Post-conditions	User has Google Apps providing

	directions to store
Input Specifications	User scans barcodeUser selects Get Location button
Expected Output Specifications	Google Maps provides directions to address of store selected by user
Pass/Fail Criteria	Pass criteria User can arrive at store with directions provided Fail criteria Incorrect/No directions provided to user
Assumptions and Constraints	Assumptions
Dependencies	TC 01, TC 04, TC 05

Test Case Number	TC 10
Test Item	Share prices of scanned items on Facebook
Pre-conditions	 User has successfully logged in User has scanned item Logged into Facebook App
Post-conditions	Share price of scanned item on Facebook/Facebook Messenger
Input Specifications	 User scans barcode User selects share price button User submits post to Facebook
Expected Output Specifications	Post submitted on Facebook about scanned item and price
Pass/Fail Criteria	Pass criteria • Post was successfully posted on Facebook Fail criteria

	Post failed to be submitted or posted.
Assumptions and Constraints	Assumptions
Dependencies	TC 01, TC 04, TC 05

Test Case Number	TC 11
Test Item	View Scanned Product's Reviews
Pre-conditions	 User has successfully logged in User has scanned a barcode
Post-conditions	User has list of reviews and rating on scanned item
Input Specifications	User scans barcodeUser selects Reviews button
Expected Output Specifications	Reviews for scanned item collected and displayed
Pass/Fail Criteria	Pass criteria Reviews for scanned items displayed on screen Fail criteria Nothing or incorrect item is displayed.
Assumptions and Constraints	Assumptions
Dependencies	TC 01, TC 04, TC 05

End SPRINT 3

Test Case Number	TC 12
Test Item	Find cheapest price for a product
Pre-conditions	User has logged inUser has scanned an item
Post-conditions	 Webcrawler finds the best price for the item scanned Application displays the lowest price
Input Specifications	User scans an item
Expected Output Specifications	Application display the lowest price
Pass/Fail Criteria	Pass Criteria
Assumptions and Constraints	Assume user has scanned an item
Dependencies	TC 01, TC 04, TC 05

Test Case Number	TC 13	
Test Item	Show similar products scanned.	
Pre-conditions	User has logged in.User has scanned at least 1 product.	
Post-conditions	 User has a list of products similar to previously scanned items. 	
Input Specifications	User selects the appropriate menu item.	
Expected Output Specifications	Display a list of items similar to the scanned.	
Pass/Fail Criteria	Pass Criteria	

	 Screen displays an array of items that have similarity to their previously scanned items. Fail Criteria Database fails to return any information. Application crashes when database request is sent.
Assumptions and Constraints	 Assume the user is logged in. Assume the user selected the correct menu item. Assume the user has scanned at least 1 product.
Dependencies	TC 01, TC 02, TC 04, TC 05, TC 06

Test Case Number	TC 14	
Test Item	See popular scanned items	
Pre-conditions	 User has successfully logged in User has successfully navigated to the popular items page 	
Post-conditions	Display images of top popular scanned items with names	
Input Specifications	User pressed Popular Items on navigation bar	
Expected Output Specifications	User is presented with a list of images of the most popularly scanned items	
Pass/Fail Criteria	Pass Criteria User is presented with a list of popularly scanned items Fail Criteria Database fails to query popular items Application fails to display images wit name of product	
Assumptions and Constraints	 Assume user is logged in Assume user has navigated successfully to the Popular Items 	

	page Assume products have been previously scanned
Dependencies	TC 01

Non Functional Tests:

Test Case Number	NF 01	
Test Item	Database Network Performance Test	
Pre-conditions	Internet AccessApplication RunningOnline Database Running	
Post-conditions	 Access to Database was successful Ping time was tracked 	
Input Specifications	Start variable for tracking time	
Expected Output Specifications	End variable for final time	
Pass/Fail Criteria	Pass: Successful communicated with Database before API timeout Fail: Unsuccessful before API timeout	
Assumptions and Constraints	Assumption: The application can successfully launch, access the internet and make the query calls. Constraint: Database is live, internet access is granted and Application is valid.	
Dependencies	Jsoup html parser library, UPC database, Barcode lookup database.	

Test Case Number	NF 02
Test Item	WebCrawler Network Performance Test
Pre-conditions	Internet AccessApplication RunningWebsites are live
Post-conditions	Access to websites successfulPing Time was tracked

Input Specifications	Start variable for tracking time
Expected Output Specifications	End variable for final time
Pass/Fail Criteria	Pass: Successfully queried sites before API timeout. Fail: Unsuccessful before API timeout.
Assumptions and Constraints	Assumption: The application can successfully launch, access the internet and make the calls. Constraint: Websites are live, internet access is granted and Application is valid.
Dependencies	Jsoup html parser library, various queried websites

Test Case Number	NF 03
Test Item	Application Stress Test
Pre-conditions	Application is running
Post-conditions	Application has not crashed
Input Specifications	N/A
Expected Output Specifications	N/A
Pass/Fail Criteria	Pass: App is still running at the end of the test. Fail: App is not running at the end of the test.
Assumptions and Constraints	Assumption: The application will be able to withstand the Monkey Stress Test. Constraint: Application is valid
Dependencies	Monkey Stress Test.