

Test Plan

1. Overview

- **Method Name:** onClick(View v) [For dropdown menu]
- **Description:** Allows users to select their preferred genres of books upon signing up to the app
- **Expected Behavior:** Allows users to open and view a dropdown list of available genres of books, and select one or more preferred categories, as well as cancel or confirm their selections.

2. Test Cases

Test Case ID	Test Scenario	Input	Expected Output	Remarks
TC-01	Open the dropdown menu, select one input, and confirm via 'Ok' button	Select 'Fiction' genre	Drop down menu closes, displays the 'Fiction' category	User selects a single genre, the drop down menu closes upon confirmation and displays their choice
TC-02	Open the drop down menu, select multiple inputs, and confirm via 'Ok' button	Select 'Fiction', 'History', and 'Poetry' genres	Drop down menu closes, displays the 'Fiction', 'History', and 'Poetry' categories	User selects several genres, the drop down menu closes upon confirmation, and displays their choice
TC-03	Open the dropdown menu, select one input, and cancel selection via 'Cancel' button	Select 'Fiction' genre	Drop down menu closes, displays default 'Select Book's Subject' place holder value	User selects a single genre, the drop down menu closes upon pressing cancelation button, and resets the default place holder string
TC-04	Open the dropdown menu, select multiple inputs, and cancel selection via 'Cancel' button	Select 'Fiction', 'History', and 'Poetry' genres	Drop down menu closes, displays default 'Select Book's Subject' place holder value	User selects multiple genres, the drop down menu closes upon pressing cancelation button, and resets the default place holder string
TC-05	Open the drop down menu, select one input, and click off the popup screen	Select 'Fiction' genre	Drop down menu closes, displays default 'Select Book's Subject' place holder	User selects a single genre, the drop down menu closes upon clicking off the selection menu, and resets the default placeholder

Test Case ID	Test Scenario	Input	Expected Output	Remarks
			value	string
TC-06	Open the drop down menu, select multiple inputs, and click off the popup screen	Select 'Fiction', 'History', and 'Poetry' genres	Drop down menu closes, displays default 'Select Book's Subject' place holder value	User selects multiple genres, the drop down menu closes upon clicking off the selection menu, and resets the default placeholder string

Test Plan 2

1. Overview

- **Method Name:** addUsername(View view)
- **Description:** Method to facilitate the user creation of username and password for their accounts and store data into database
- **Expected Behavior:** Receive users input from username text input and password text input, convert the data into strings, and send it to the database

2. Test Cases

Test Case ID	Test Scenario	Input	Expected Output	Remarks
TC-01	Test valid username and password inputs and press button to confirm their inputs	User enters username and password that meet all the criteria	System displays affirmative account creation message	User enters both valid username and password and confirms the input. The system checks the validity and confirms to the user that the account was created successfully
TC-02	Test empty username field	User attempts to press confirmation button with username left blank	System displays message alerting user to invalid information entered	User enters an empty username field and either valid or invalid password field and attempts to confirm input. System responds by alerting user to invalid input information.
TC-03	Test empty password field	User attempts to press confirmation button	System displays message alerting	User enters an empty password field and either valid or invalid

Test Case ID	Test Scenario	Input	Expected Output	Remarks
		with password left blank	user to invalid information entered	username field and attempts to confirm input. System responds by alerting user to invalid input information.
TC-04	Test empty username and password field	User attempts to press confirmation button with username and password left blank	System displays message alerting user to invalid information entered	User enters an empty username and password and attempts to confirm input. System responds by alerting user to invalid input information.
TC-05	Test invalid username input (doesn't meet criterion)	User enters username less than 3 characters long (i.e. 'bob')	System displays message alerting user to invalid information entered	User enters an insufficient username and attempts to confirm input. System responds by alerting the user to invalid input information
TC-06	Test invalid password input (doesn't meet criterion)	User enters password less than 7 characters long (i.e. 'abcdefg')	System displays message alerting user to invalid information entered	User enters an insufficient password and attempts to confirm input. System responds by alerting the user to invalid input information
TC-07	Test invalid username and password input (doesn't meet criterion)	User enters username and password less than 3 characters long (i.e. 'abc', 'abc')	System displays message alerting user to invalid information entered	User enters an insufficient username and password and attempts to confirm input. System responds by alerting the user to invalid input information

Test Plan 3

1. Overview

- **Method Name:** validLogin(View view)
- **Description:** Checks if the information of the user is correct in order to redirect it to the other activity.
- **Expected Behavior:** It notifies the user if they have entered invalid credentials or if they entered the correct credentials it will redirect the users to a new activity.

2. Test Cases

Test Case ID	Test Scenario	Input	Expected Output	Remarks
TC-01	User enters a password that does not match the entered username	Wrong password Correct username	The system displays a toast message notifying the user that the entered password does not match the username	It will clear the password field if the password is wrong but will keep the entered information of the username field.
TC-02	User enters a username that does not exist inside the database	Wrong username	The system will notify the user that the entered username was not found inside the database with a toast message	The system checks both Users and Admin references in order to find the entered username. If not found in both references, it will display the error message.
TC-03	User enters a username and password that does match.	Correct Username and Correct Password	It will redirect the user to the homePage activity.	It will keep the information of that user into a global variable

Test Plan 4

1. Overview

- **Method Name:** searchBooks()
- **Description:** Search for a book inside the Google Books API.
- **Expected Behavior:** It receives the information of the books from the user query and then sets the book adapter for the display.

2. Test Cases

Test Case ID	Test Scenario	Input	Expected Output	Remarks
TC-01	Query get results	User query: "Harry Potter"	The system displays all the desired information into the book adapter	The book adapter is set to get the thumbnail, title and author to be displayed into the User interface.
TC-02	The retrofit client fails	Any title	The system might fail unexpected due to some failure inside the retrofit dependencies therefore it	The system will notify the user when failure is encountered.

Test Case ID	Test Scenario	Input	Expected Output	Remarks
--------------	---------------	-------	-----------------	---------

should notify the user
when fail exists