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**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 value | User selects a single genre, the drop down menu closes upon clicking off the selection menu, and resets the default placeholder 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 with password left blank | System displays message alerting user to invalid information entered | User enters an empty password field and either valid or invalid 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 |