

How to run the app

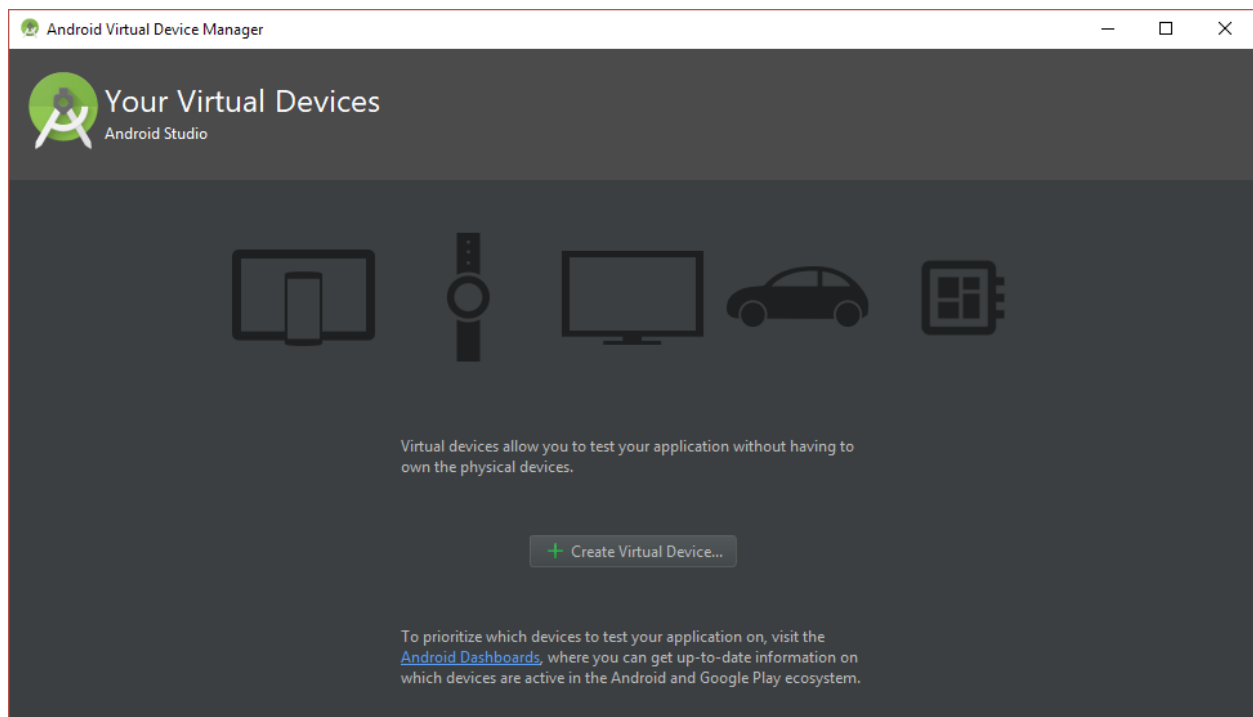
If you have an Android phone

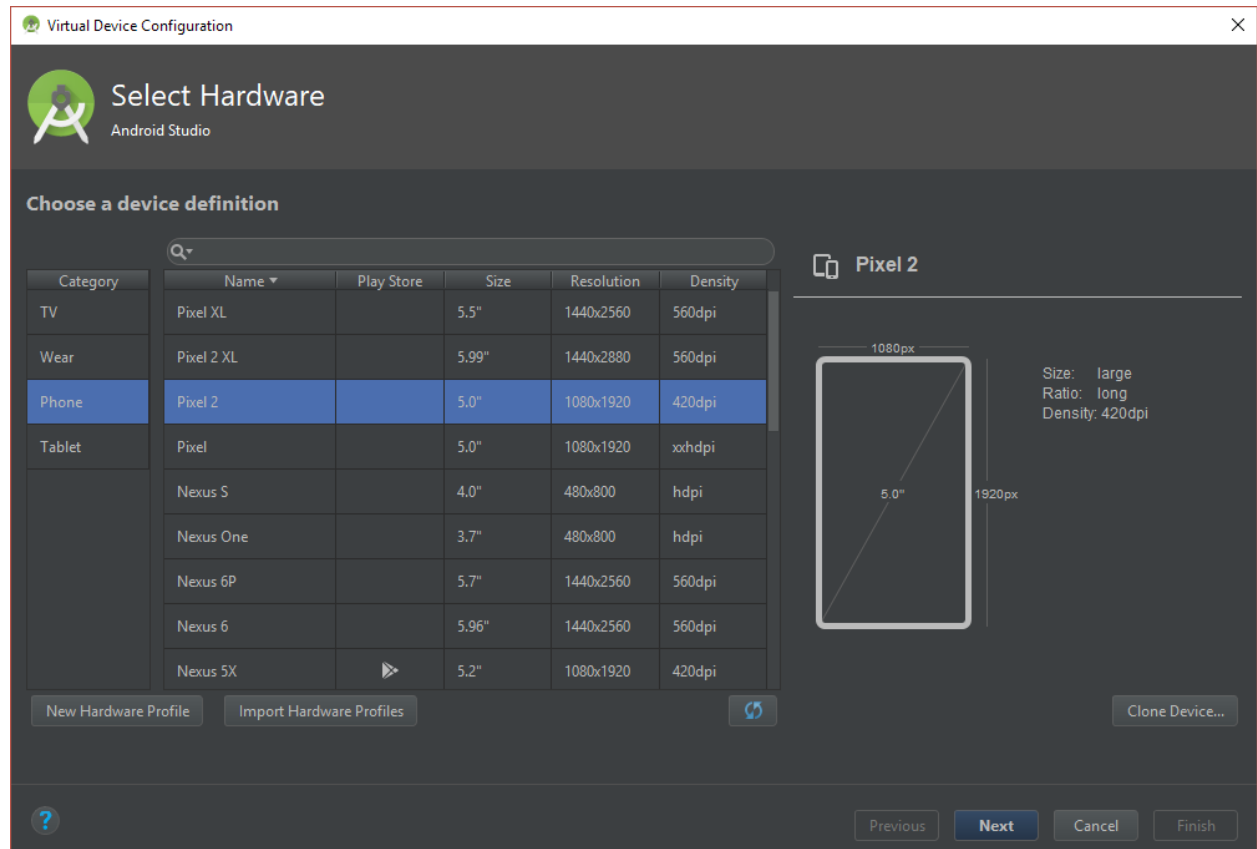
Download the APK and install it on your phone.

If you don't have an Android phone

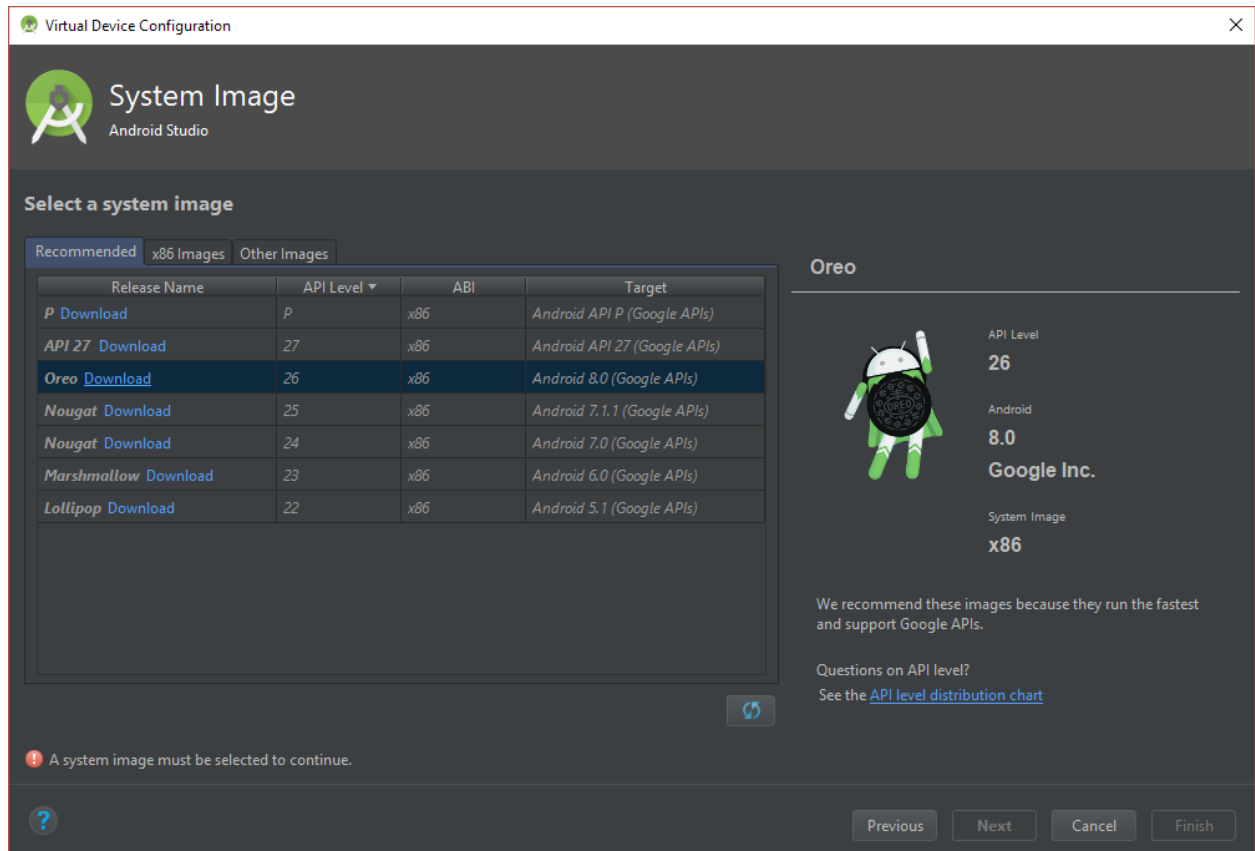
Download [Android Studio](#) and the Android emulator, which should install with Android Studio. You can refer to the instructions [here](#).

Open Android Virtual Device Manager. You may need to create a project in order to find the device manager in Tools > Android > AVD Manager. If you don't have any devices, click the button to create one. Otherwise you may need to add a new one.

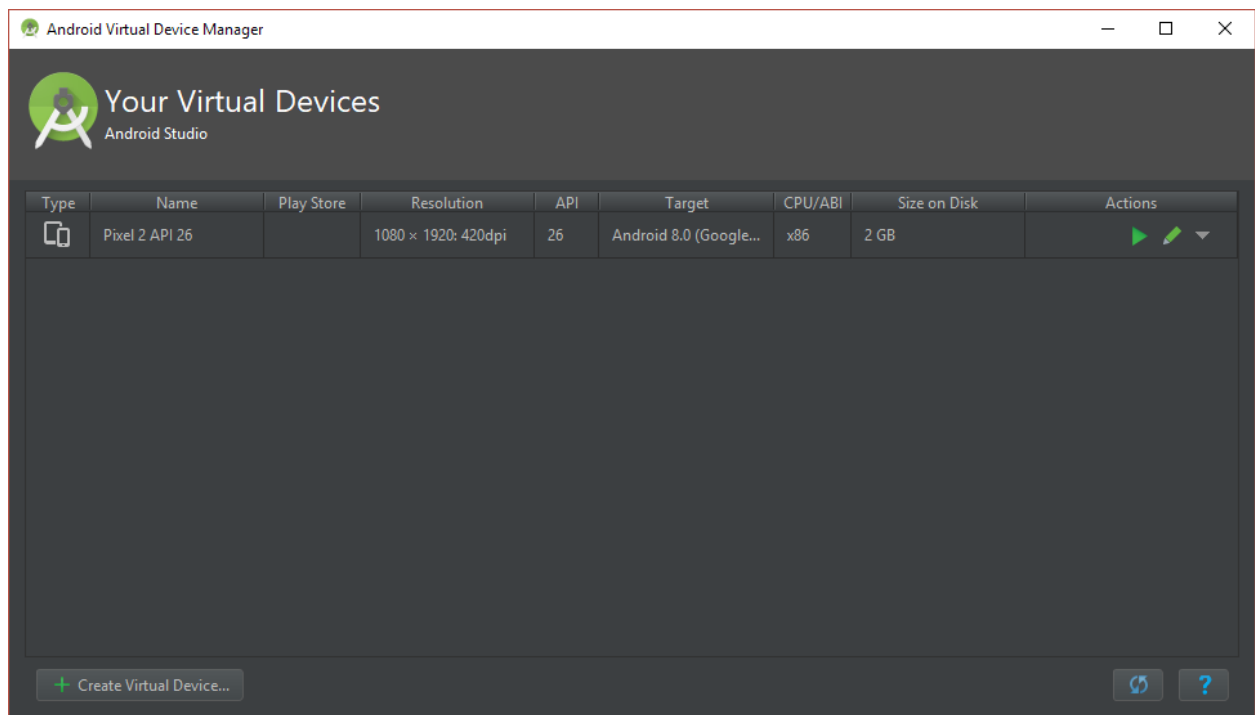




You can try other device definitions, but the app has been tested to work with the Pixel 2 device on API level 26.



Download and install the system image for API level 26 (Oreo). Other system images might not include a recent version of Google Play Services and the app will not function.

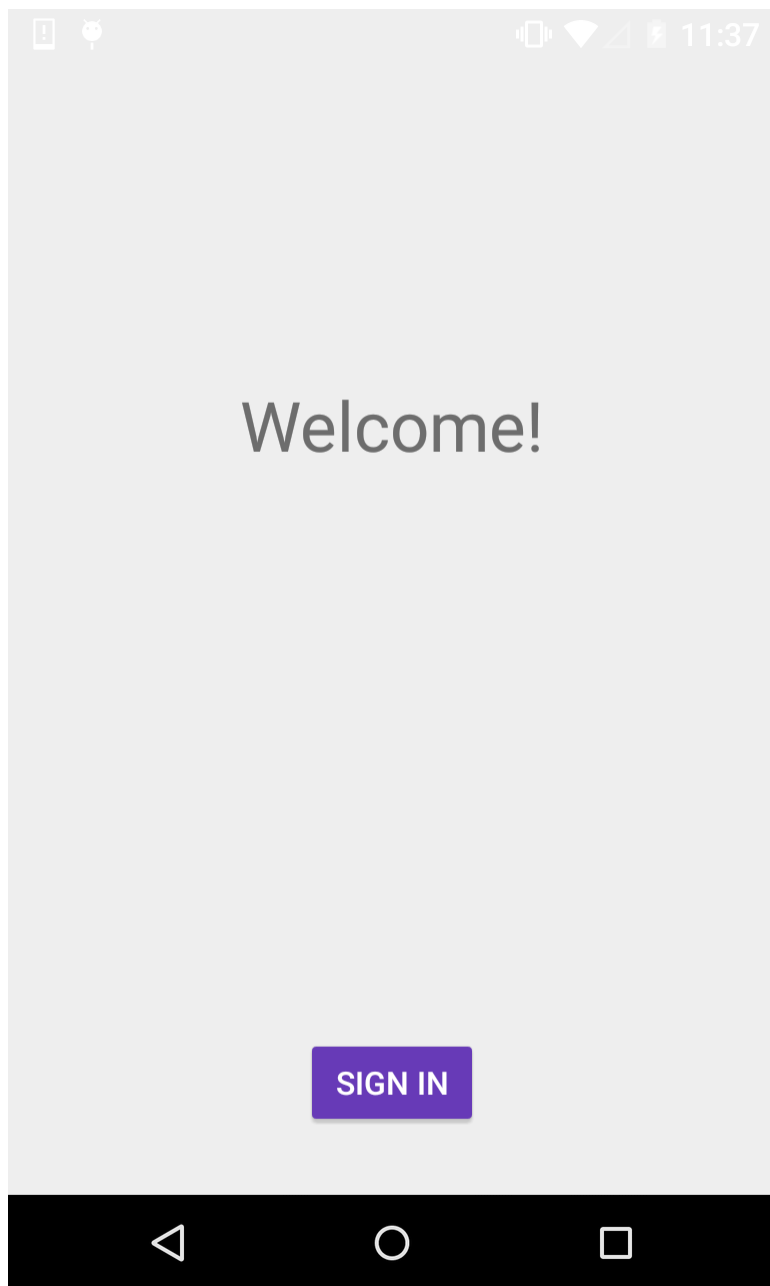


Once the system image downloads, you can select it and then use the default options to create the device. It should then appear in the list of virtual devices. Click the play icon to launch the emulator.

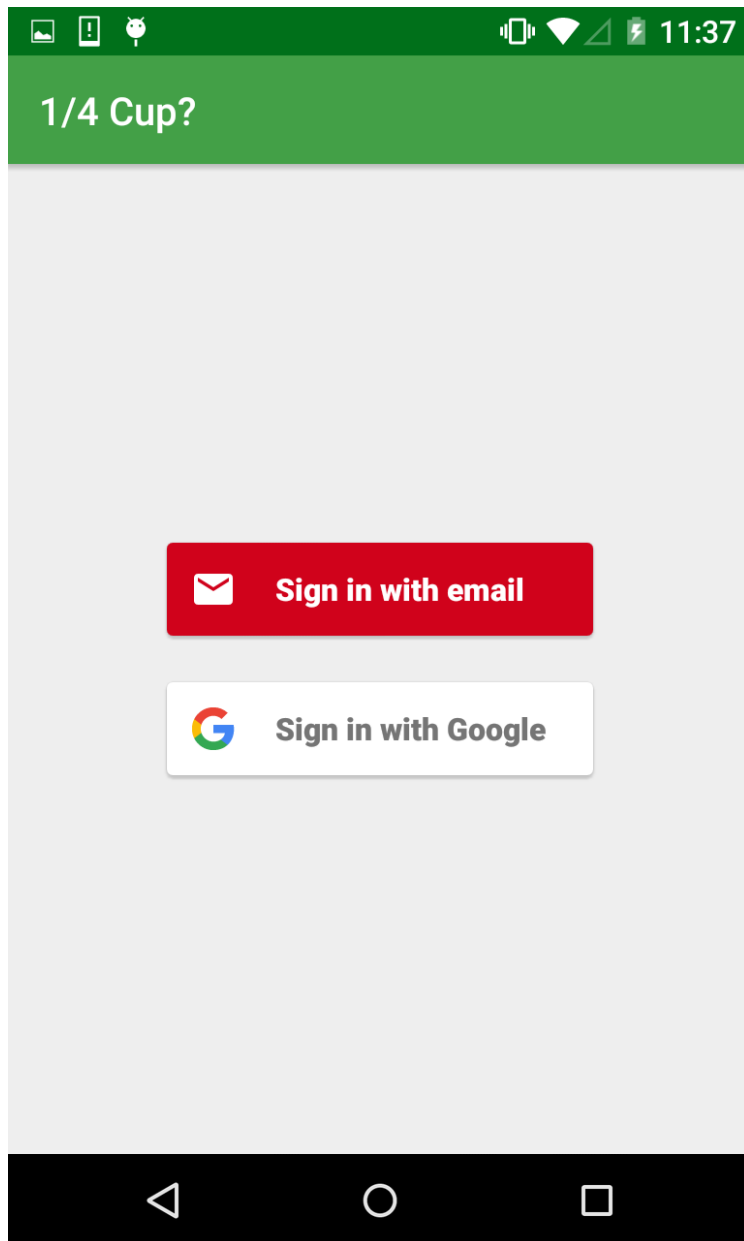
Once the emulator starts, drag and drop the apk file onto the emulator to install it. Once it installs, open the app drawer and launch the app.

Running the app

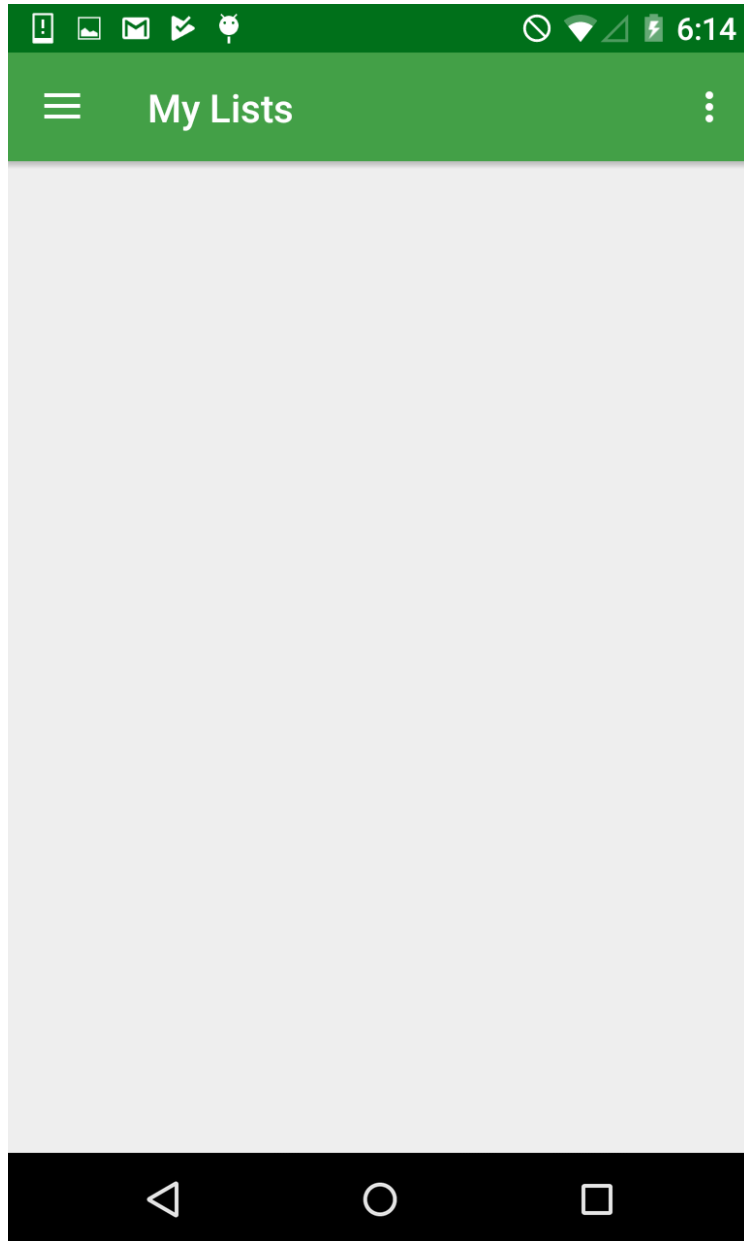
Opening Login screen



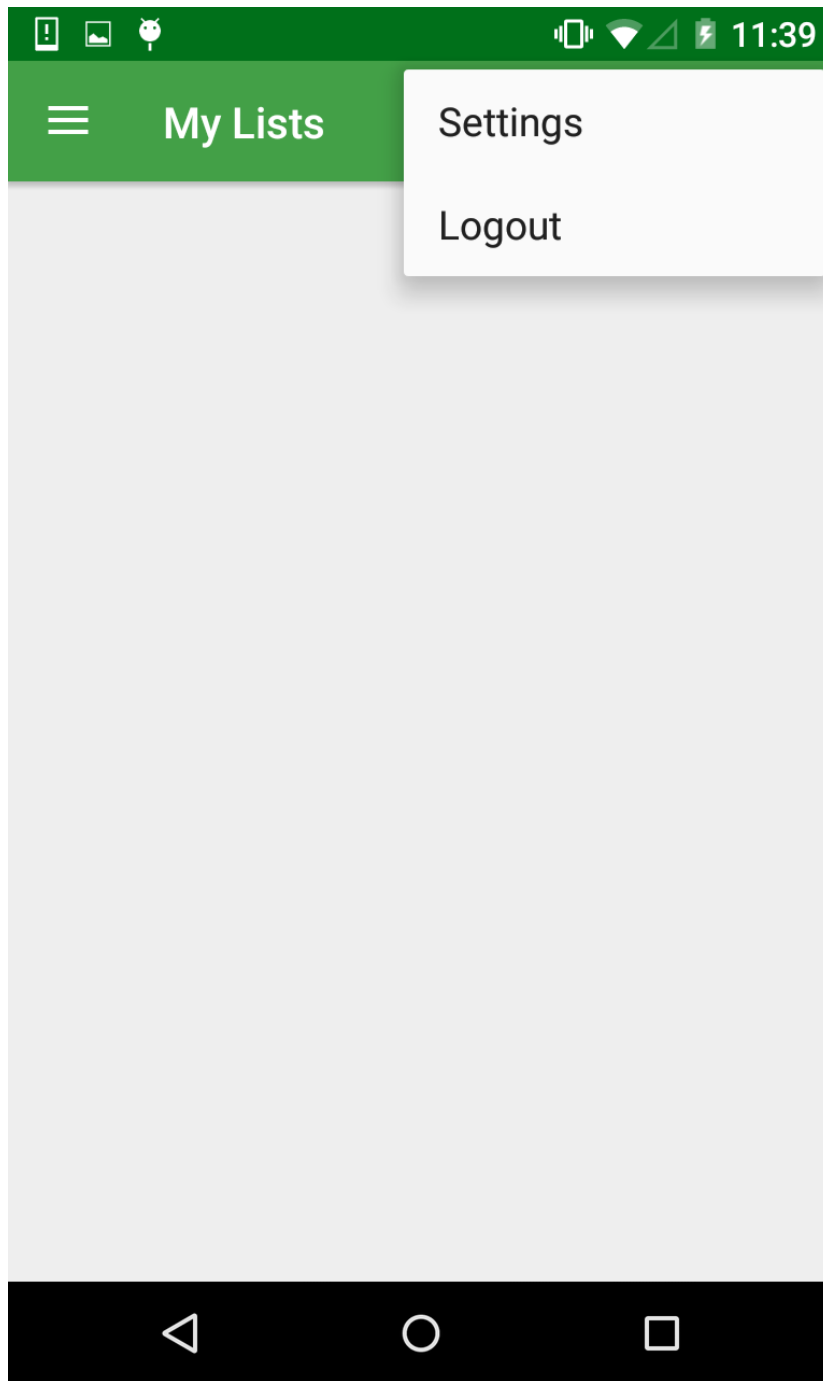
Select to sign in with either just email or google account.



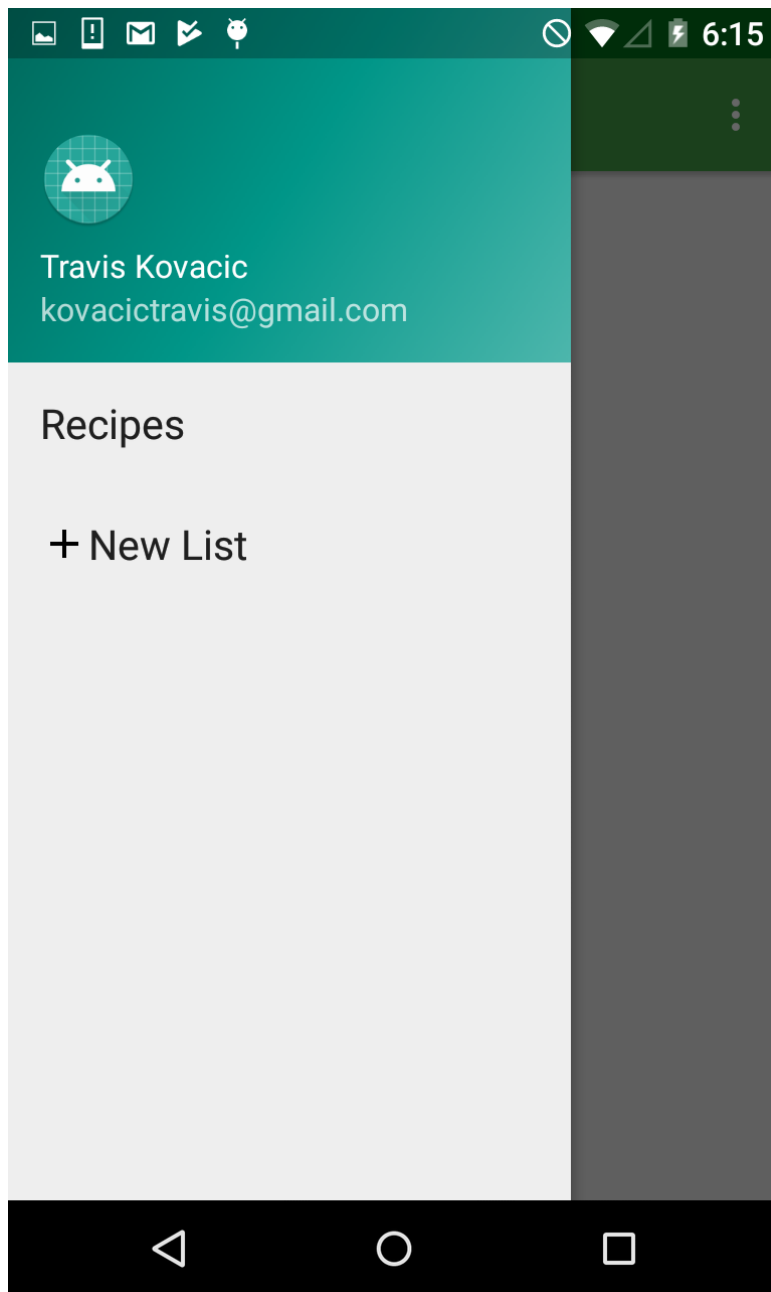
First Screen upon opening the app for the first time when logged in. The upper left button allows access to recipes and lists. The upper right button allows access to sort orders, settings, and logging out.



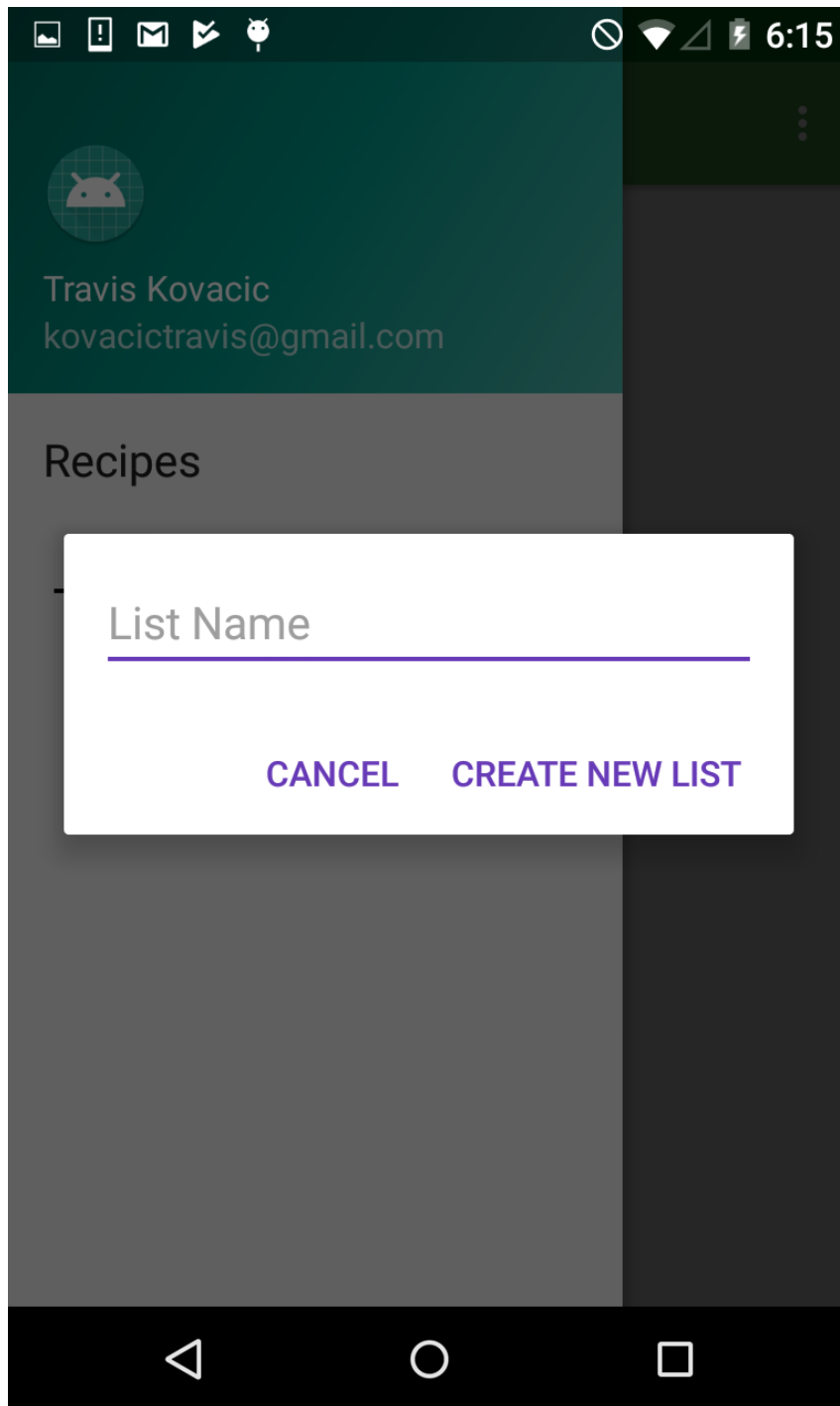
After logging in, use the upper right button to logout if needed.



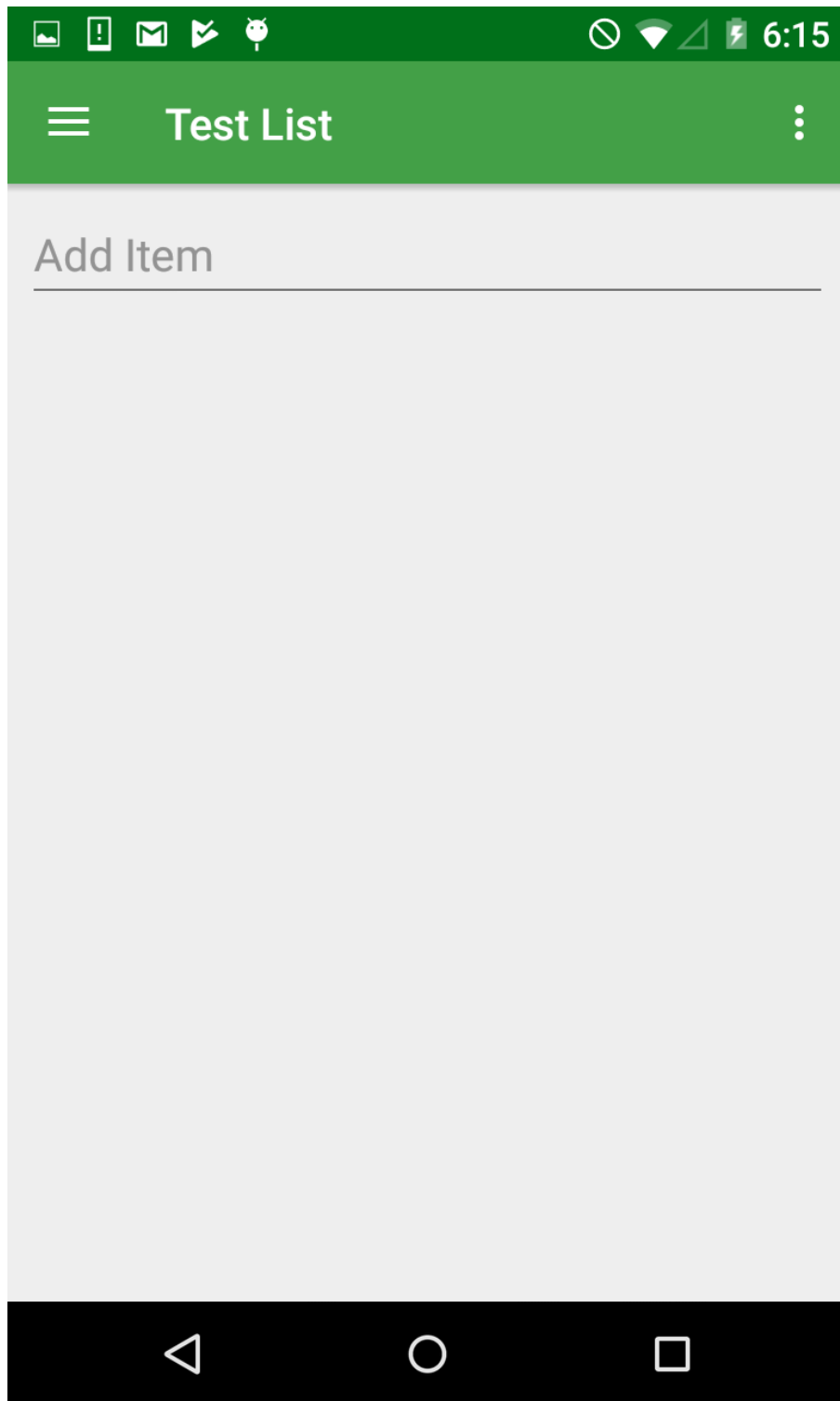
Pressing the upper-left button / swiping to the right on an empty space will open the recipe / list section



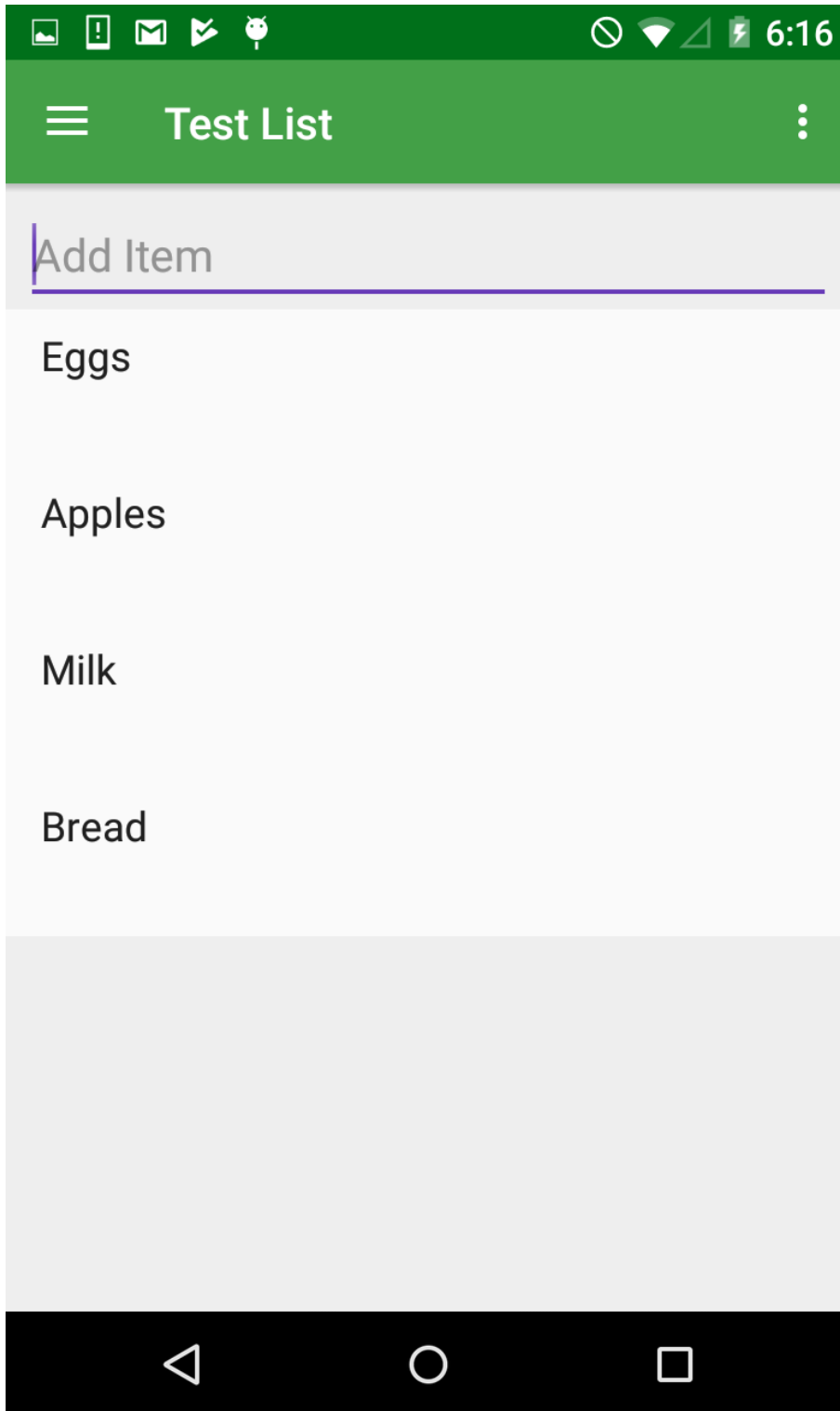
Press the new list option to create a new list. Enter a valid name and press create new list to finalize the list. If the user has input an invalid List name there will be a toast message that appears describing the error.



After creating a list, this screen will show up with the list title at the top.

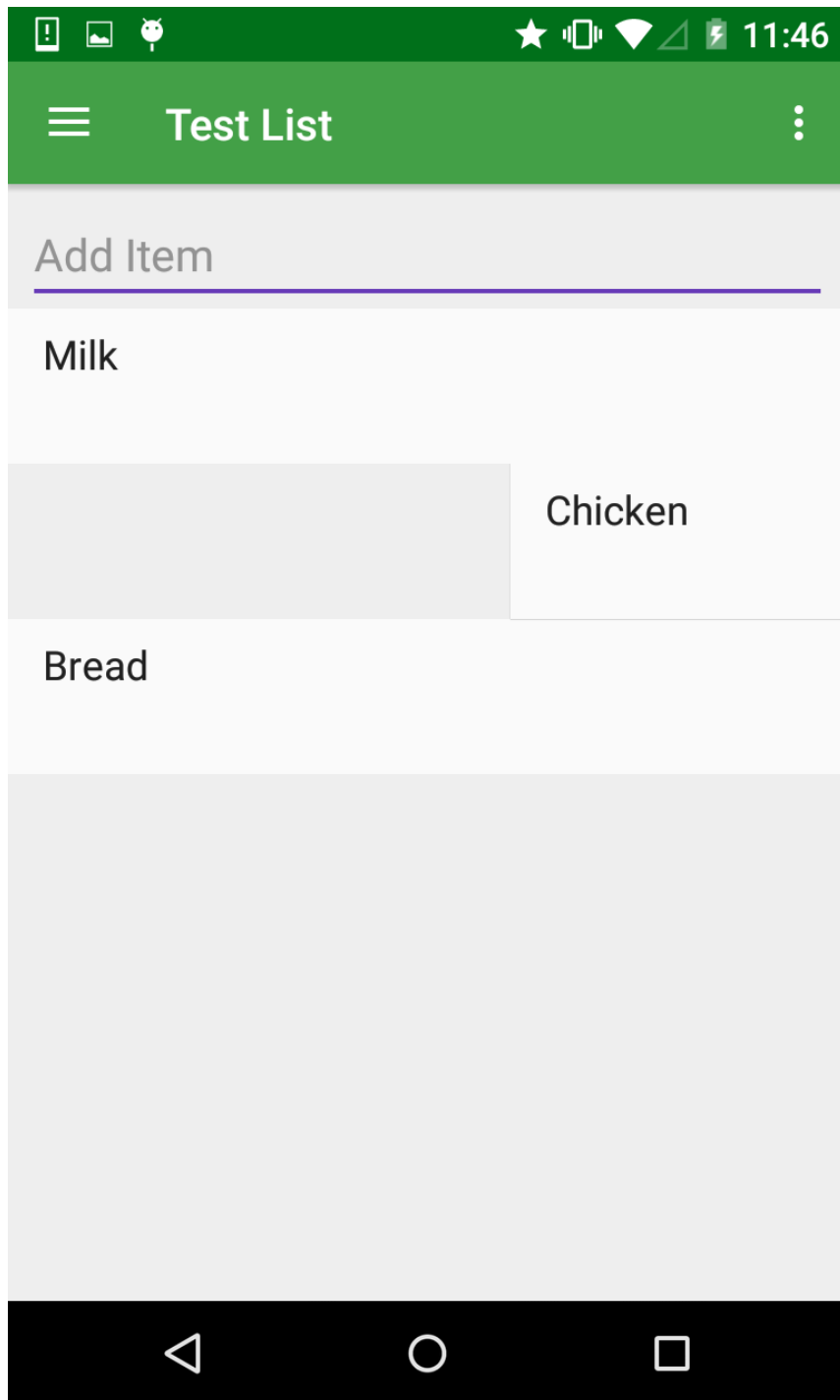


Use the 'add item' field to enter items into the list. If the user has input an invalid item then there will be a toast message that describes the error.

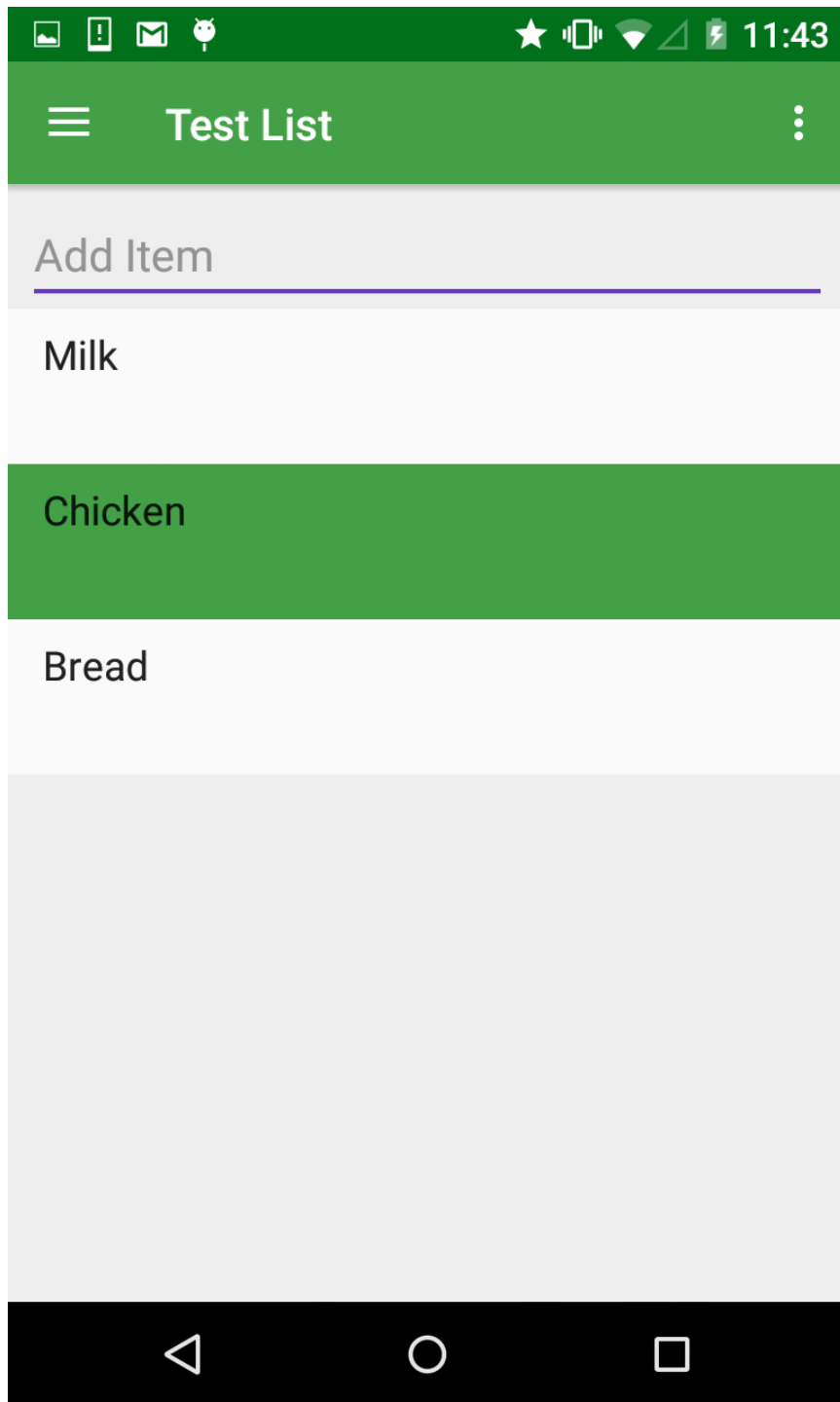


The screenshot shows an Android application interface. At the top is a green header bar with a hamburger menu icon on the left, the text "Test List" in the center, and a vertical ellipsis icon on the right. Below the header is a light gray input field with the placeholder text "Add Item" and a purple underline. Below the input field is a list of four items: "Eggs", "Apples", "Milk", and "Bread". The list is displayed on a light gray background. At the bottom of the screen is a black navigation bar with three white icons: a triangle (back), a circle (home), and a square (recent apps).

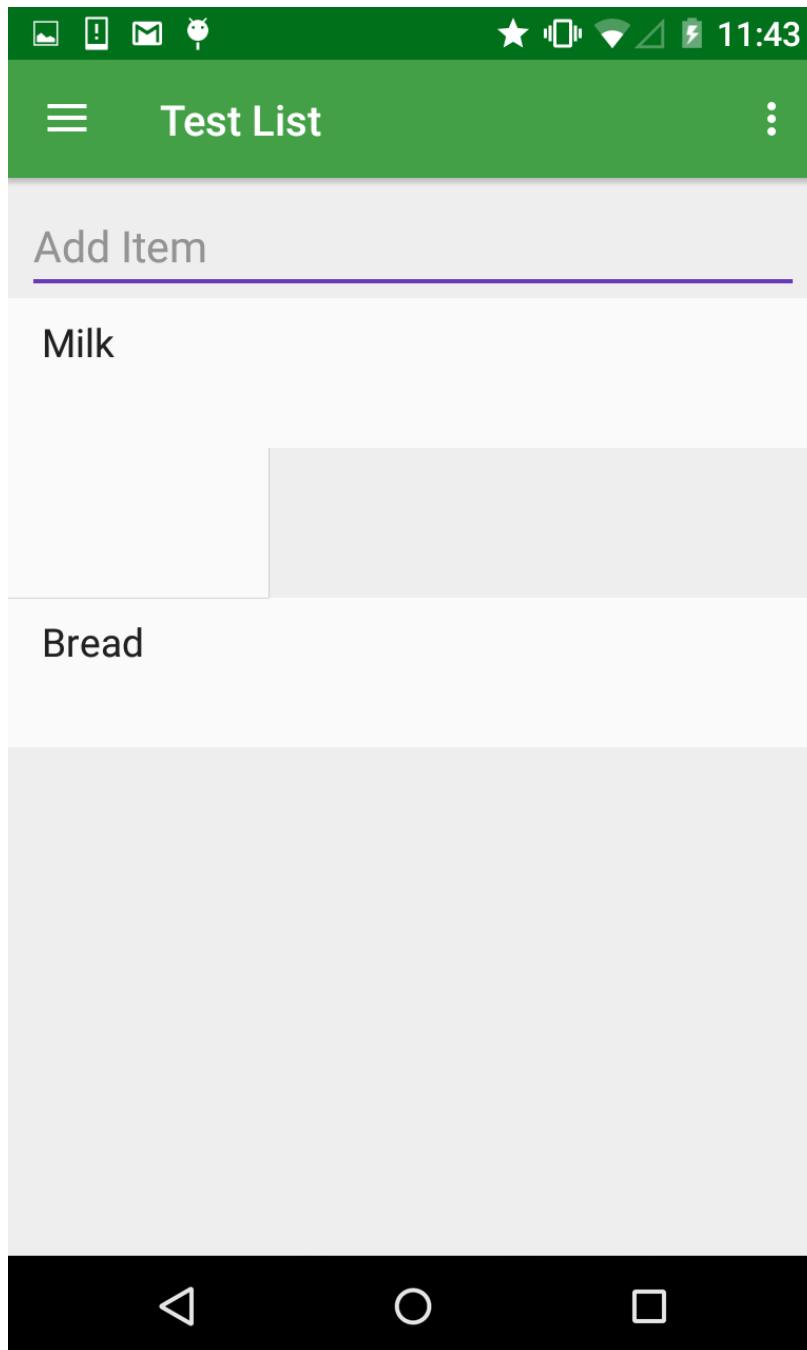
Swipe from right to left on a shopping item to 'check' it.



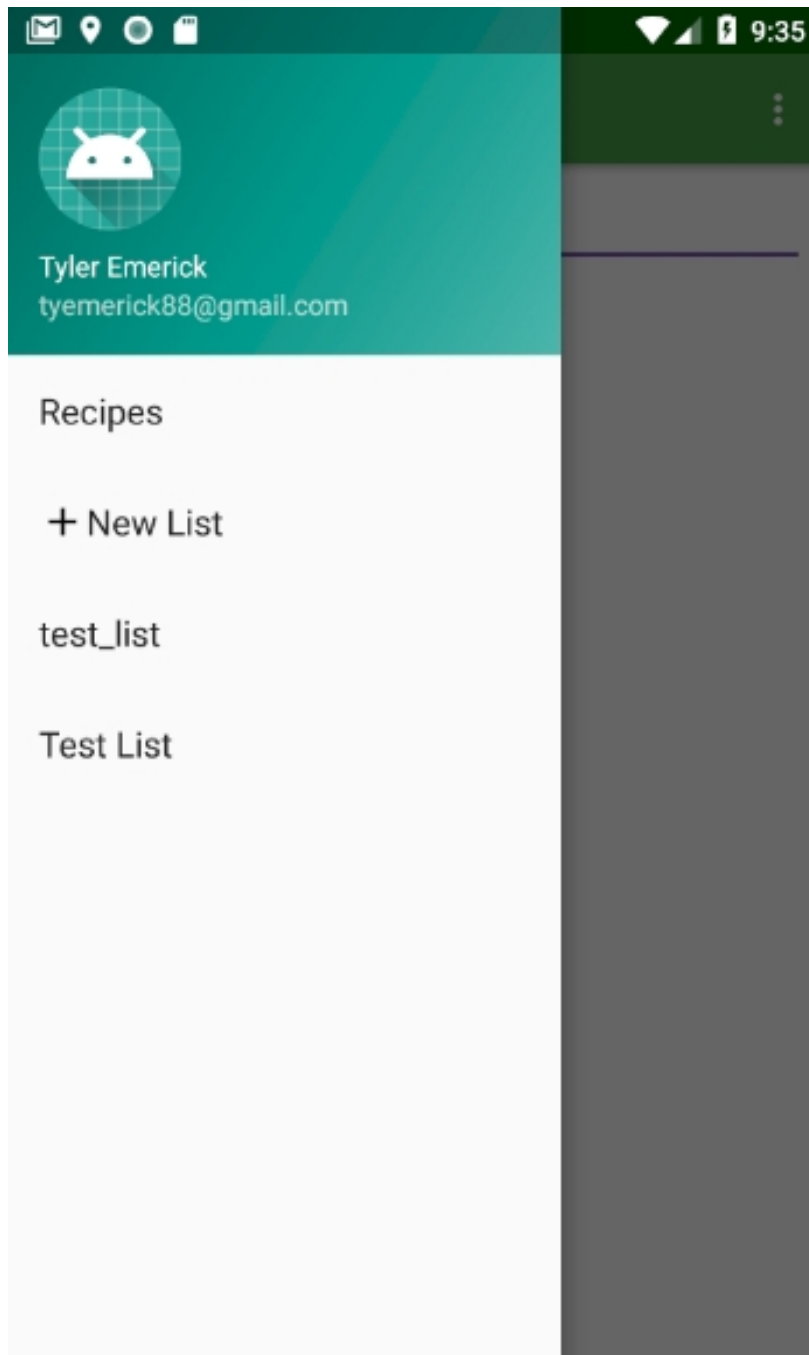
Once 'checked' an item will turn green.



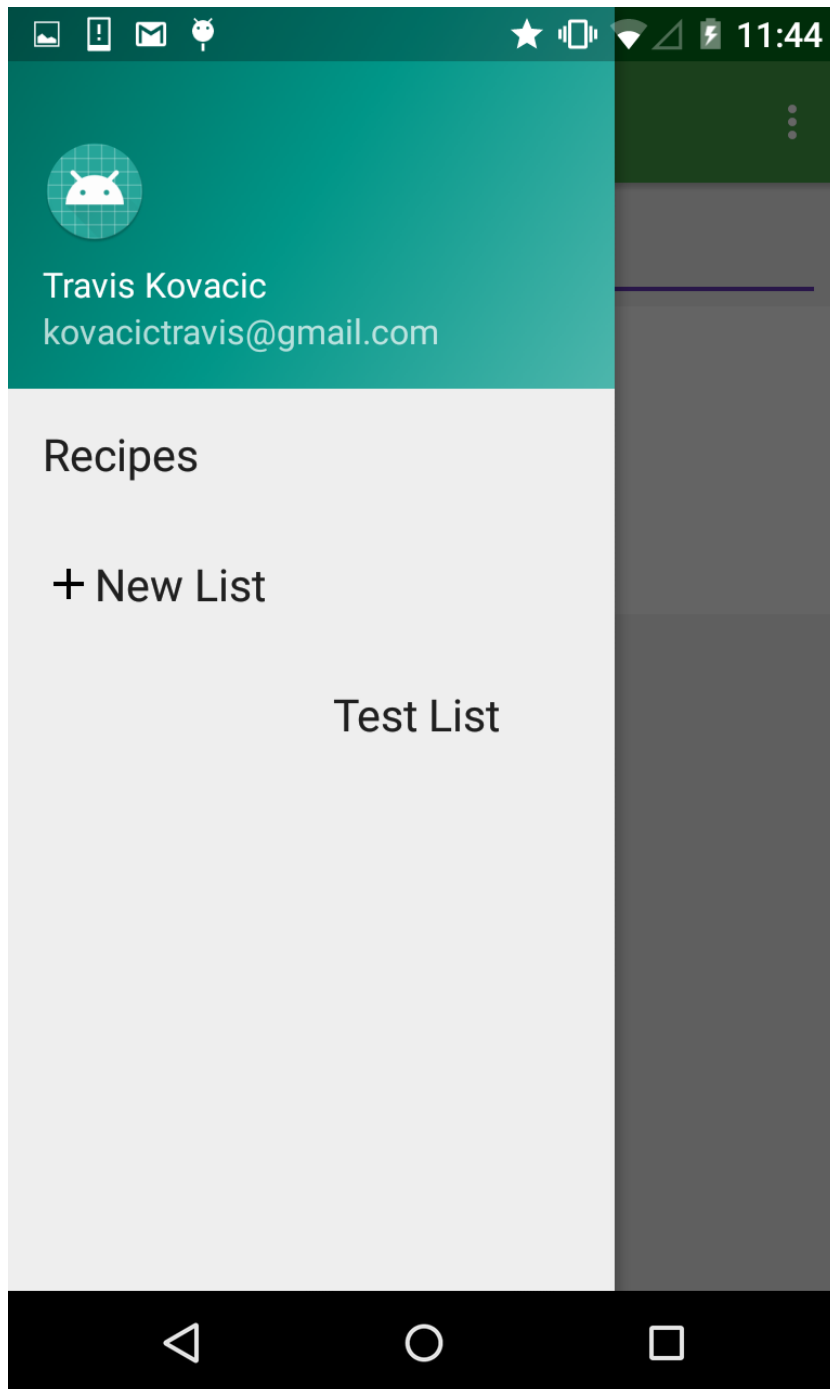
Swipe from right to left to delete a shopping item.



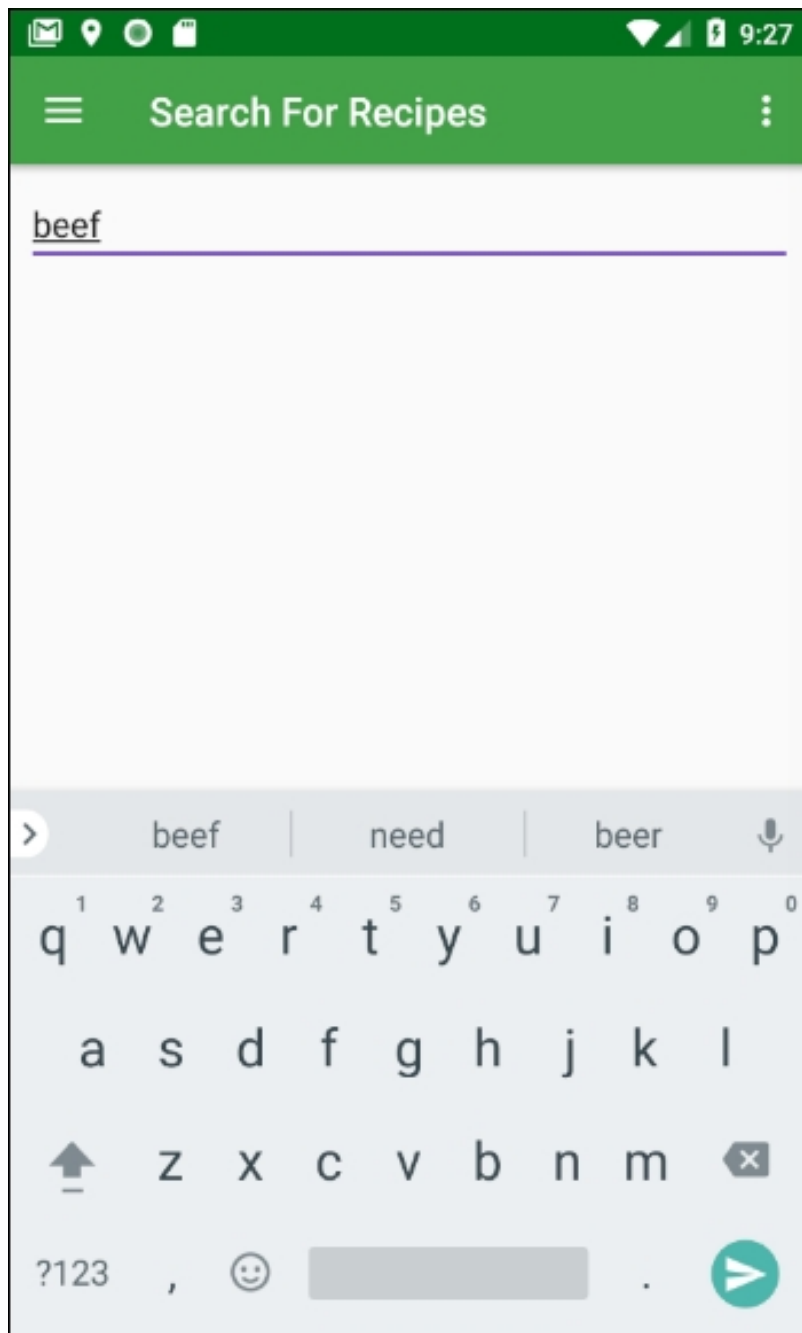
You can also add ingredients from recipes to your shopping list as items. To search for a recipe, click on the 'Recipes' button on top of '+New List'



Swipe from right to left on the list screen to remove/delete a list.

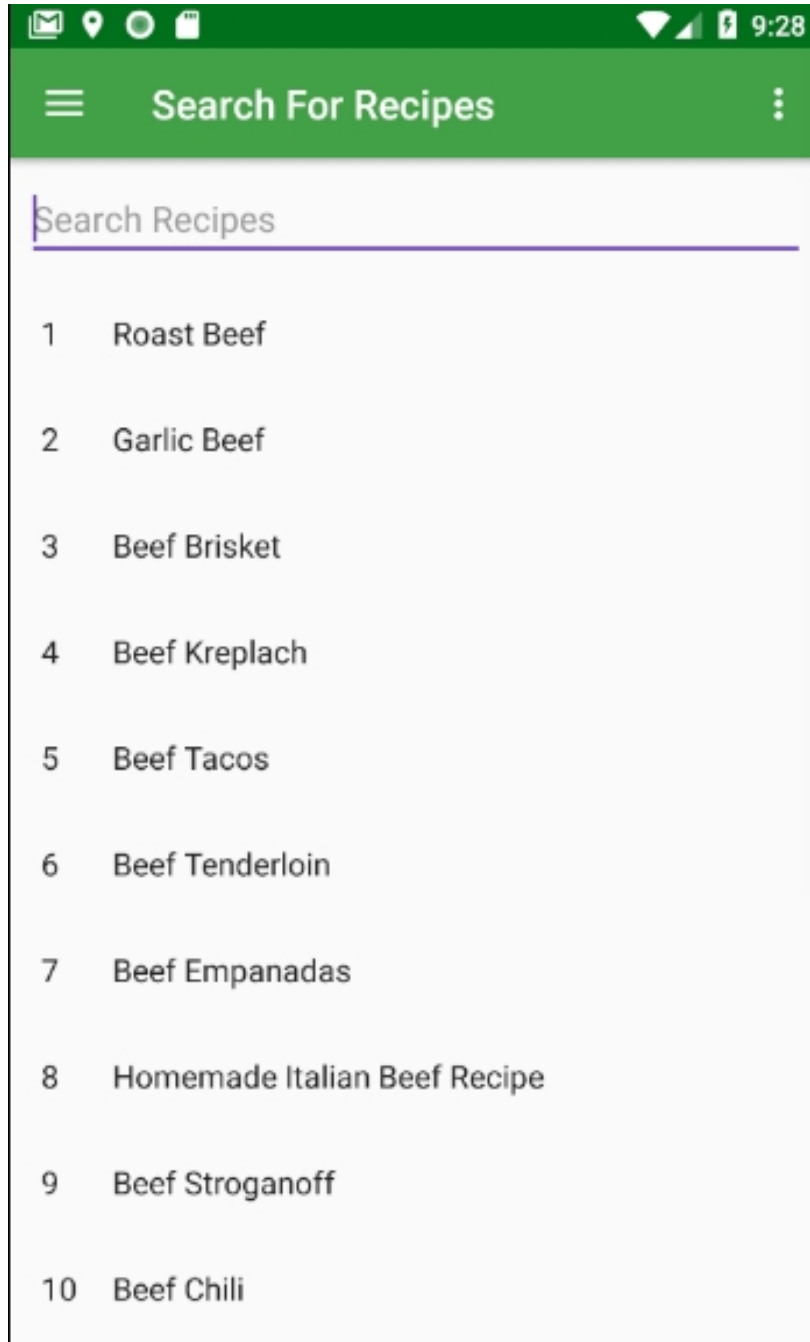


Type in a keyword for the recipe you would like to search.

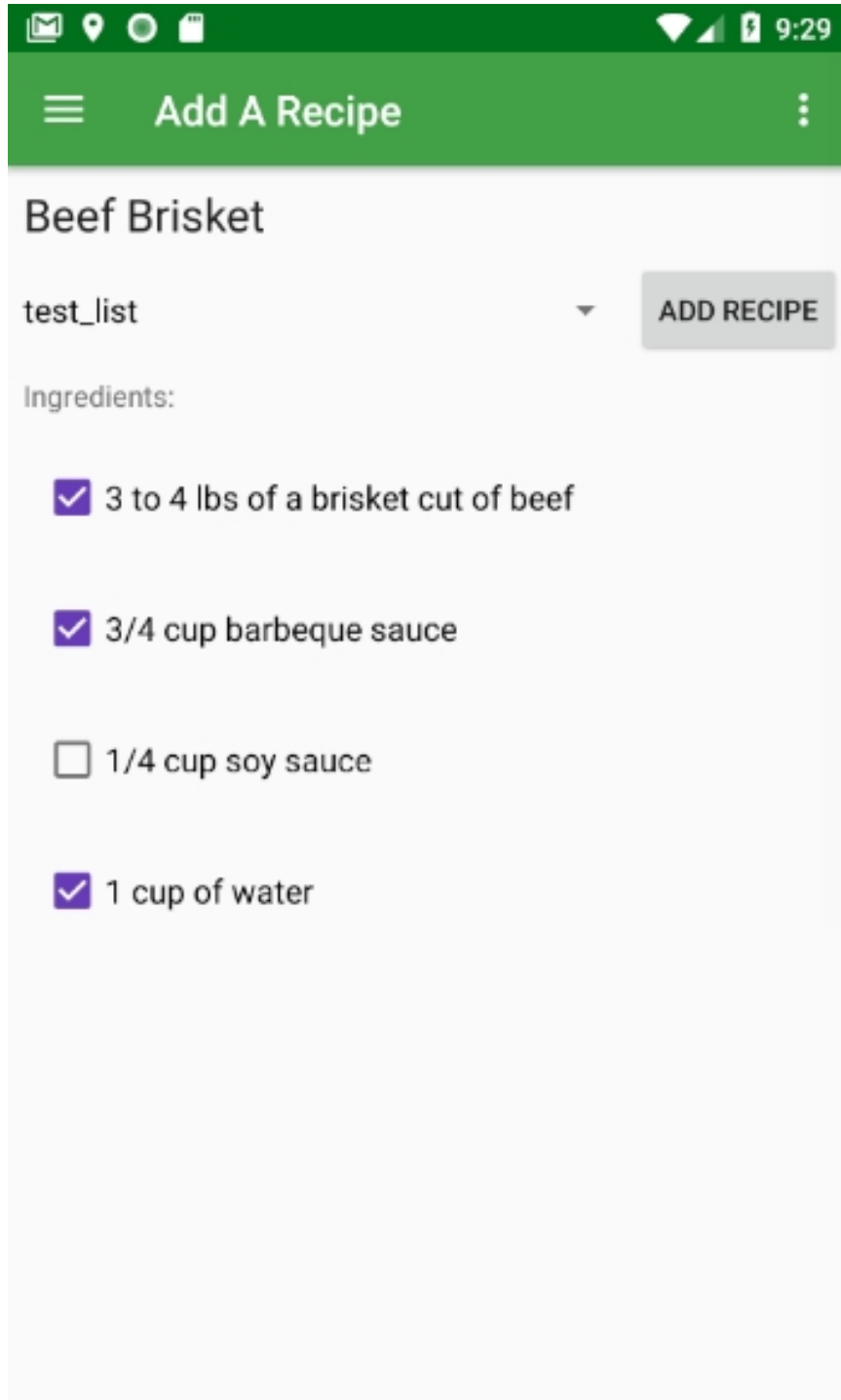


The image shows a mobile application interface for searching recipes. At the top, there is a green header bar with a hamburger menu icon on the left, the text "Search For Recipes" in the center, and a vertical ellipsis icon on the right. Below the header is a large, empty white text input field. The word "beef" is typed into this field and is underlined with a thin purple line. At the bottom of the screen is a standard Android-style keyboard. The keyboard has a light gray background and includes a search bar at the top with a magnifying glass icon on the left and a microphone icon on the right. The search bar contains the text "beef", "need", and "beer" separated by vertical lines. The keyboard layout includes rows of letters (q-w-e-r-t-y-u-i-o-p, a-s-d-f-g-h-j-k-l, z-x-c-v-b-n-m), a shift key with an arrow, a spacebar, and a green enter key with a white arrow.

20 recipe results will be present if the string matches recipes titles in the Edamam database. If the string does not match a recipe in the database, the user should see a toast stating 'HTTP Error'. Edamam only allows 5 API calls per minute and 5000 calls per month for a free developer account. If one exceeds the 5 allotted calls in a minute, the user should see a toast stating 'API Error'. The user should see a toast stating 'Please enter a search query' if a blank search query is attempted to be entered. Click on the recipe title that the users wants to view the ingredients for.



Once a recipe is selected, the user can choose which shopping list they would like to add the ingredients to. Only the ingredients with a checked checkbox will be added to the list. Click the 'Add Recipe' button to add the checked ingredients to the specified list. If all checkboxes are unchecked, the users will be prompted with a toast stating "You must select at least one ingredient."



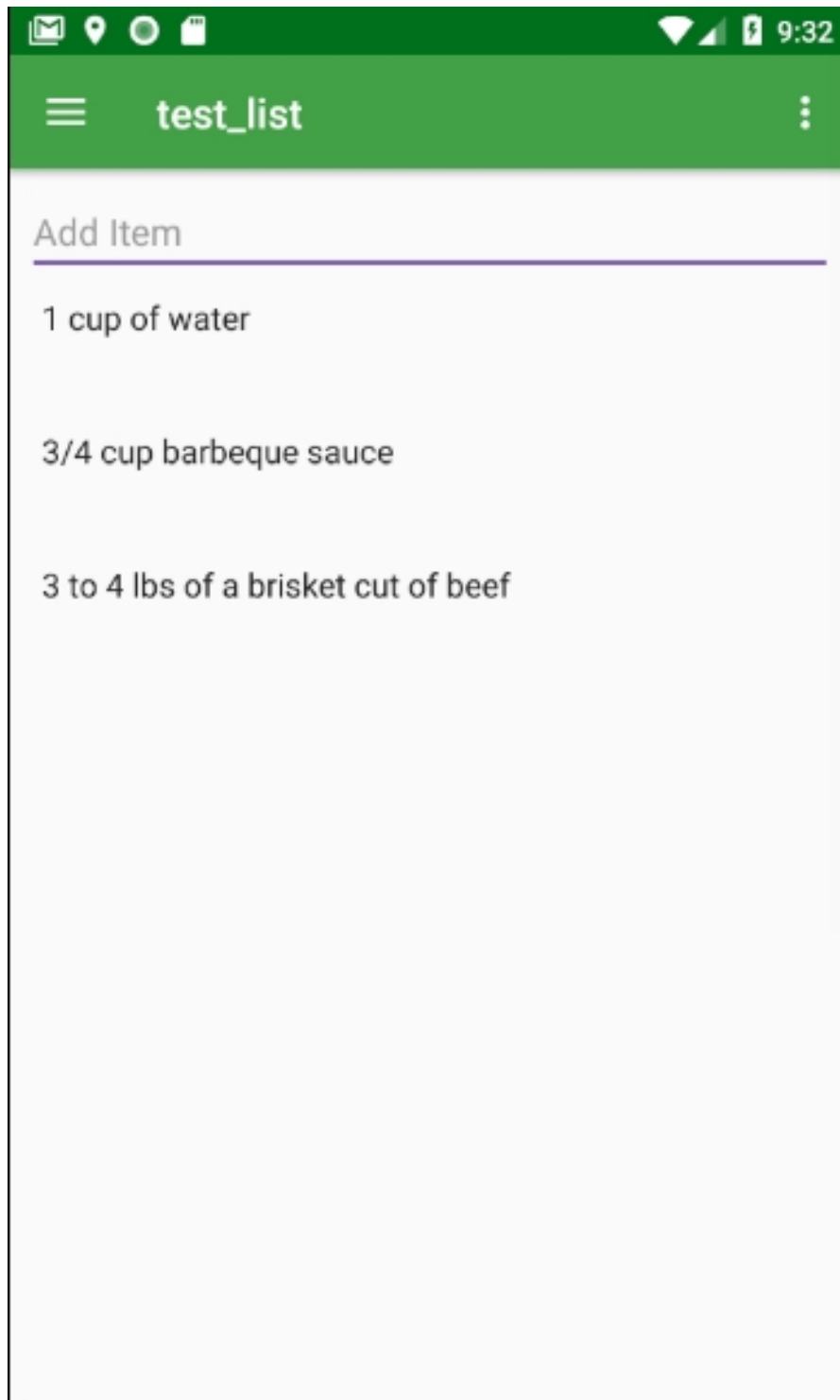
The screenshot shows a mobile application interface with a green header bar. The header contains a hamburger menu icon on the left, the text "Add A Recipe" in the center, and a vertical ellipsis icon on the right. Below the header, the title "Beef Brisket" is displayed. Underneath the title, there is a dropdown menu currently showing "test_list" with a downward arrow, and a grey button labeled "ADD RECIPE". Below this, the word "Ingredients:" is followed by a list of four items, each with a checkbox: "3 to 4 lbs of a brisket cut of beef" (checked), "3/4 cup barbeque sauce" (checked), "1/4 cup soy sauce" (unchecked), and "1 cup of water" (checked).

test_list ▾ ADD RECIPE

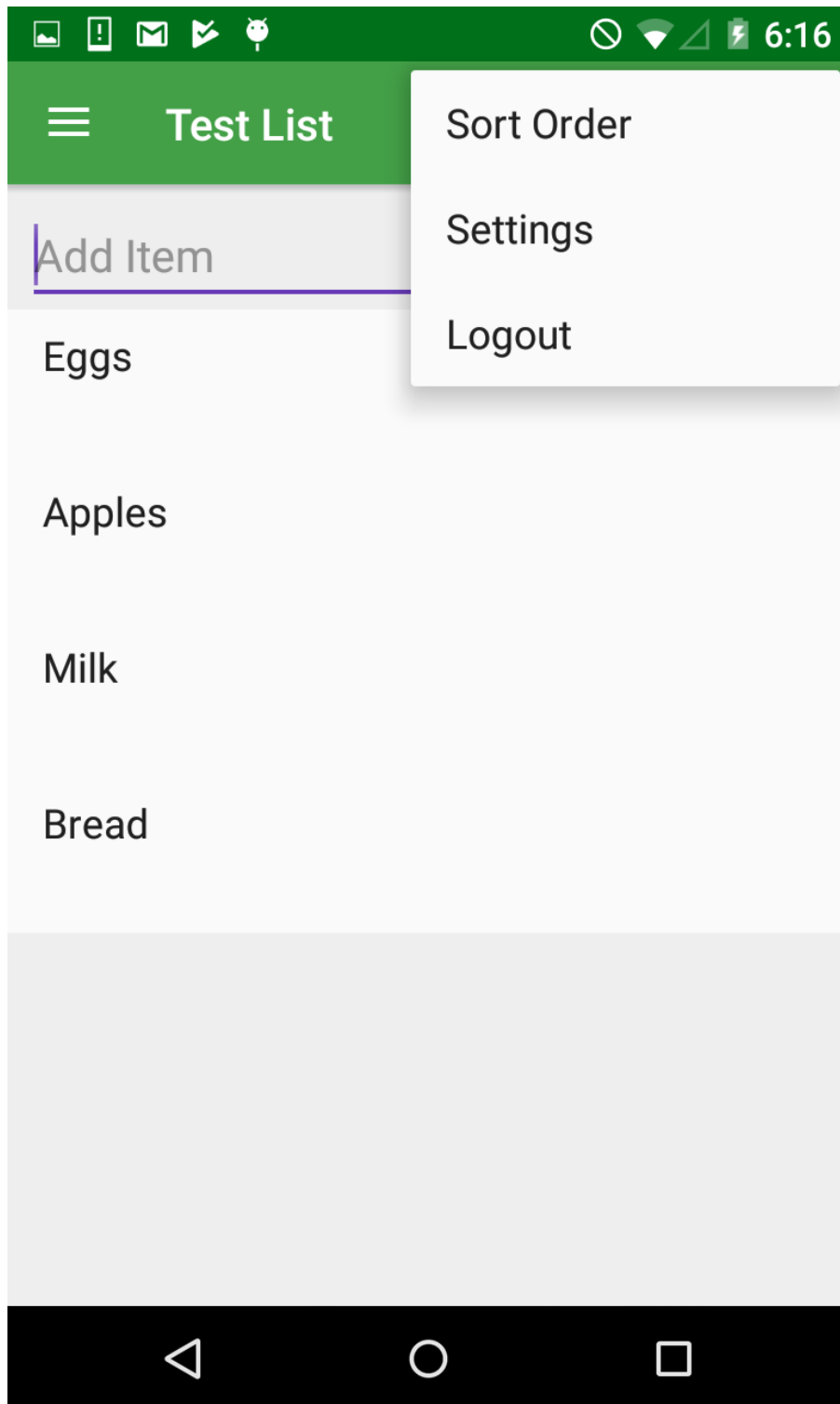
Ingredients:

- ☒ 3 to 4 lbs of a brisket cut of beef
- ☒ 3/4 cup barbeque sauce
- ☐ 1/4 cup soy sauce
- ☒ 1 cup of water

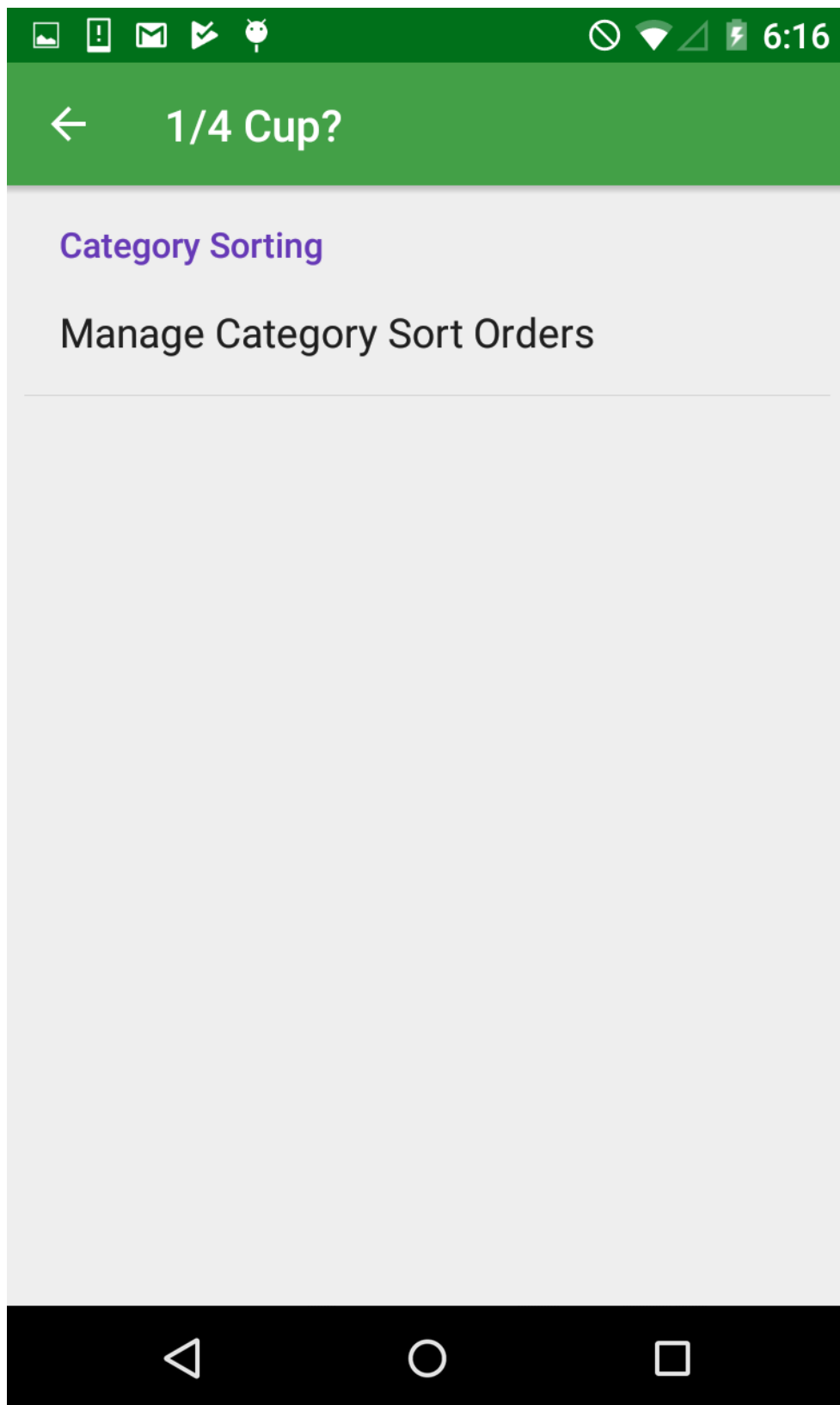
Once the user has added the selected ingredients to their desired shopping list, he or she will be directed to this shopping list that the items have been added to.



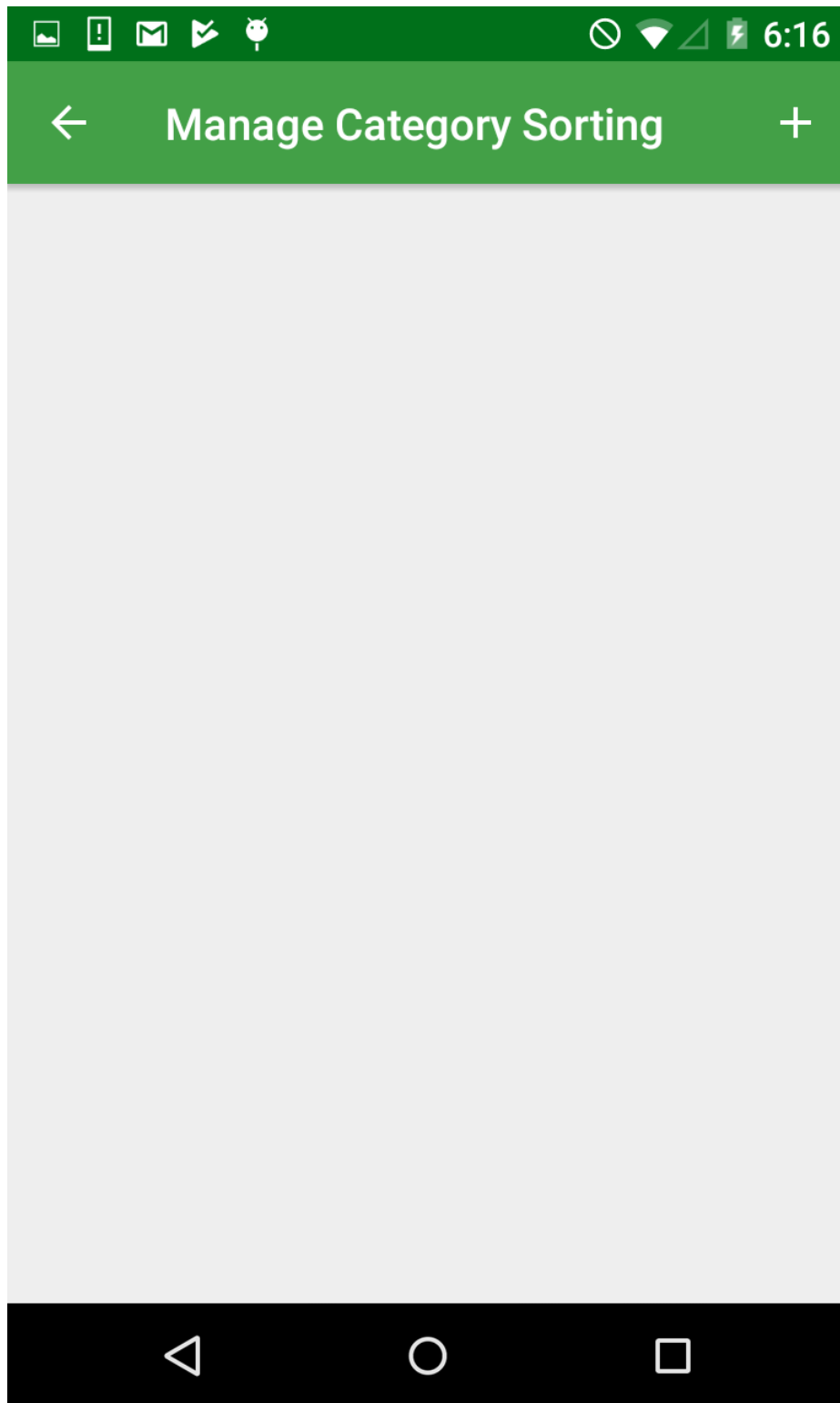
Pressing the upper right button will open up the options menu.



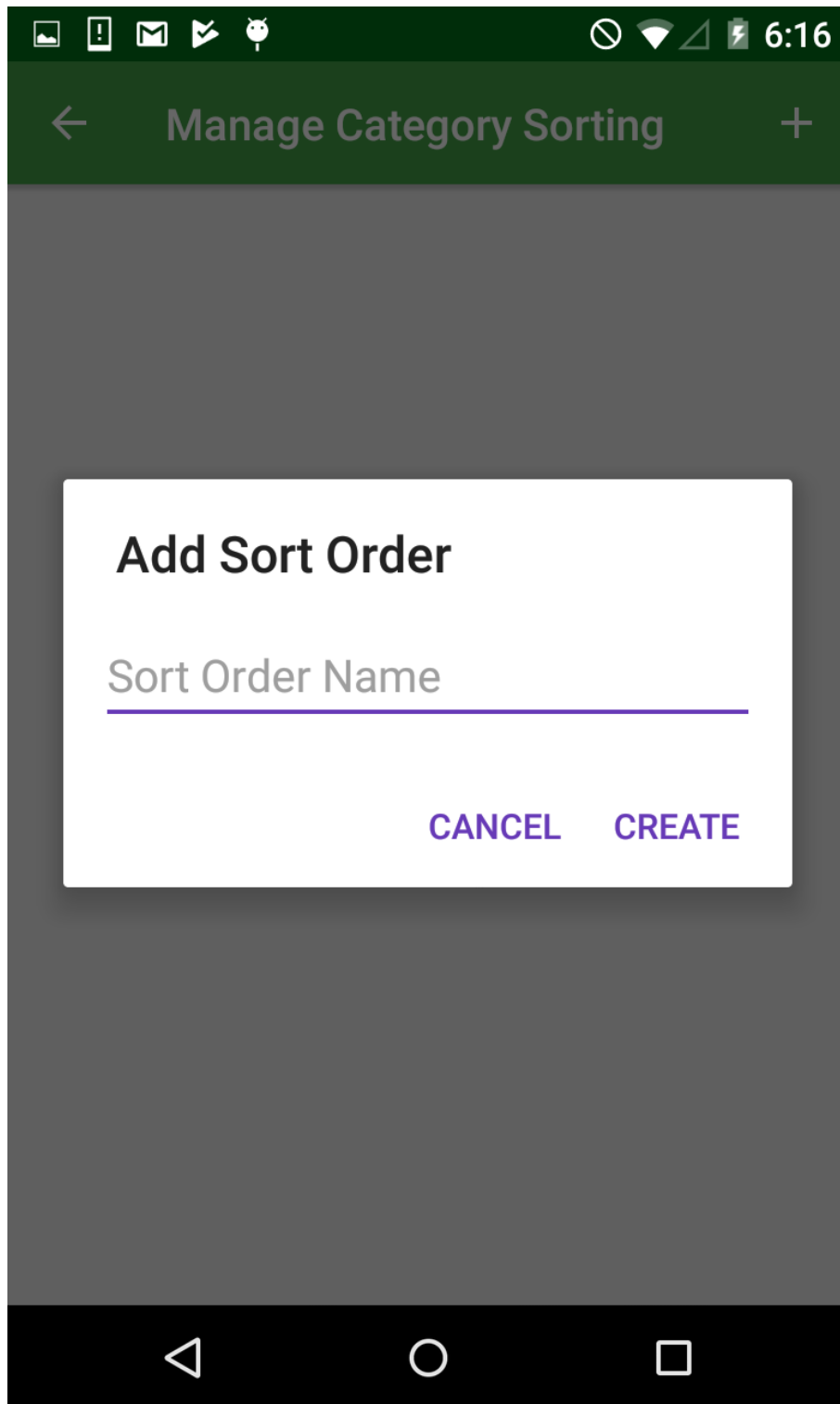
Pressing the 'settings' option will show this page.



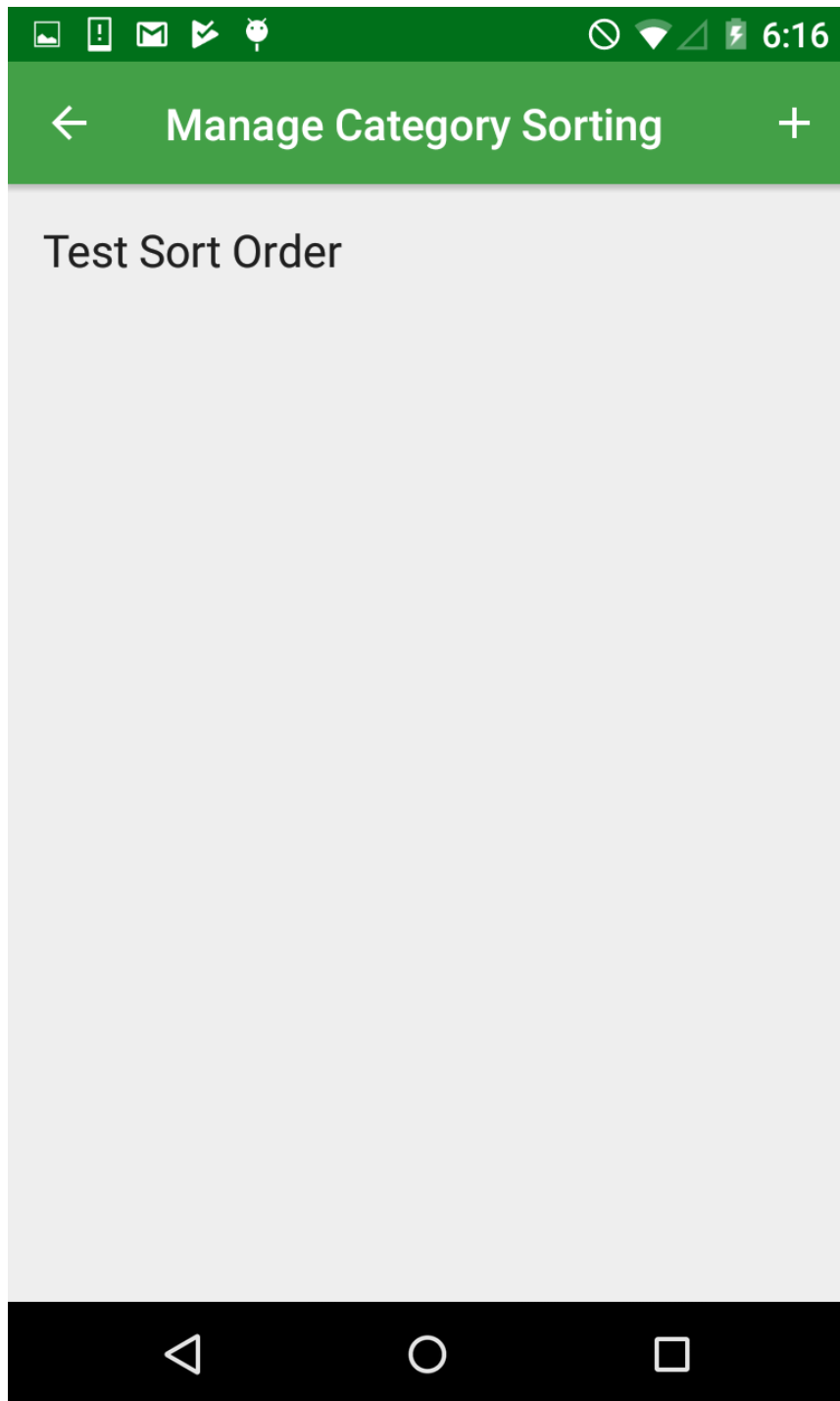
Clicking on 'manage category sort orders' will show this page.



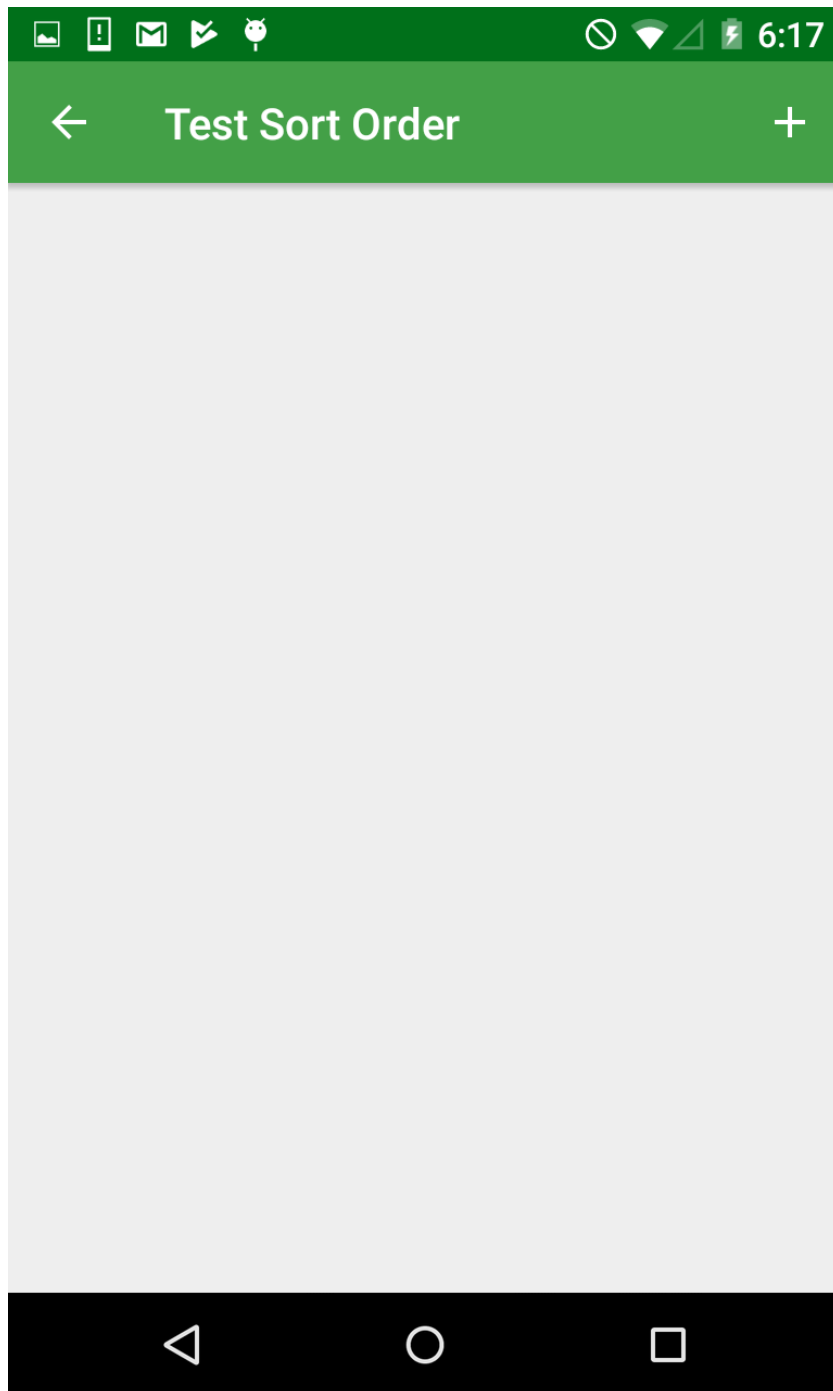
Click the '+' button to create a sort order. If the user inputs an invalid sort order name then there will be a toast message that describes the error.



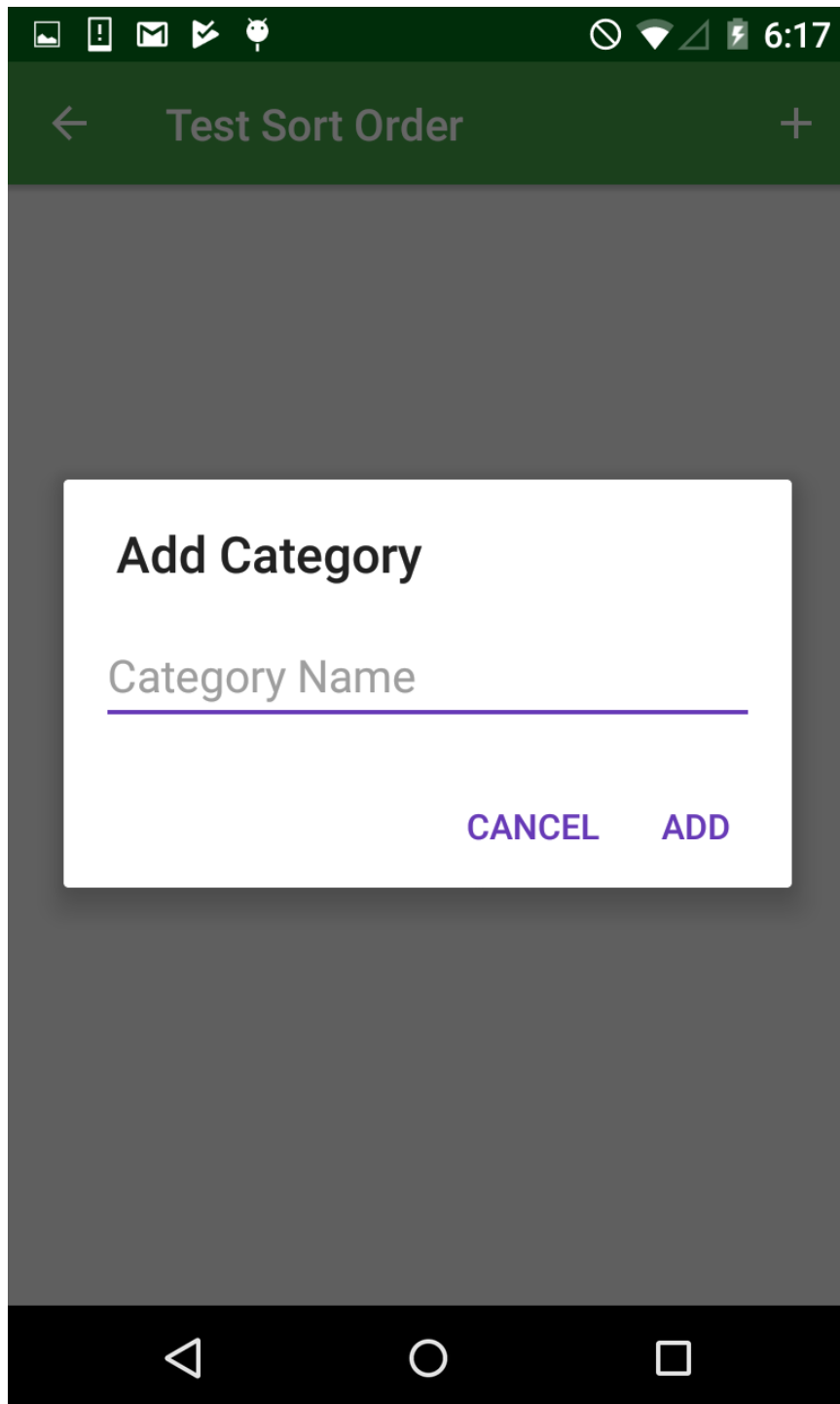
After creating a sort order, it will show up on the screen.



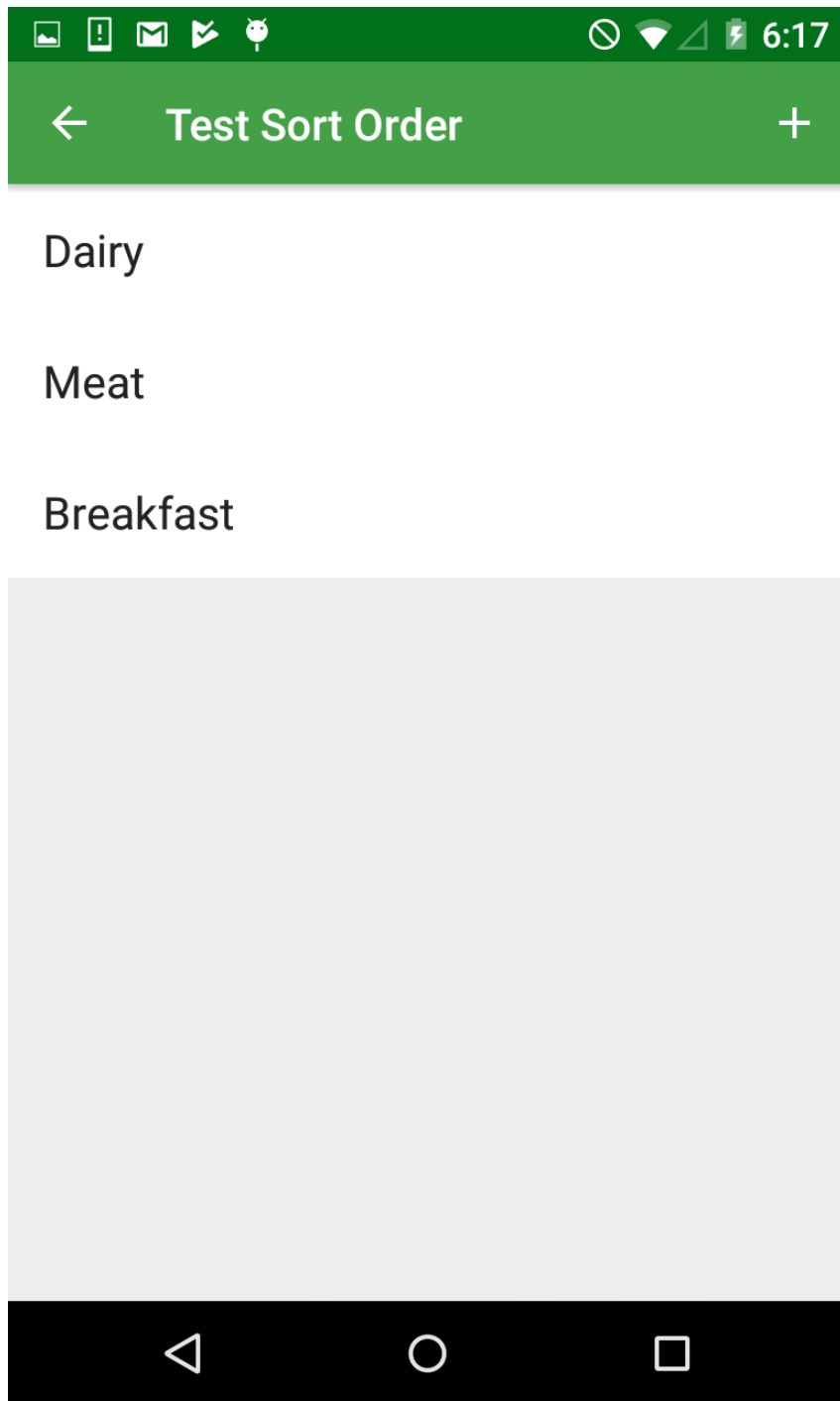
Clicking on the sort order will show this screen with the sort order name at the top.



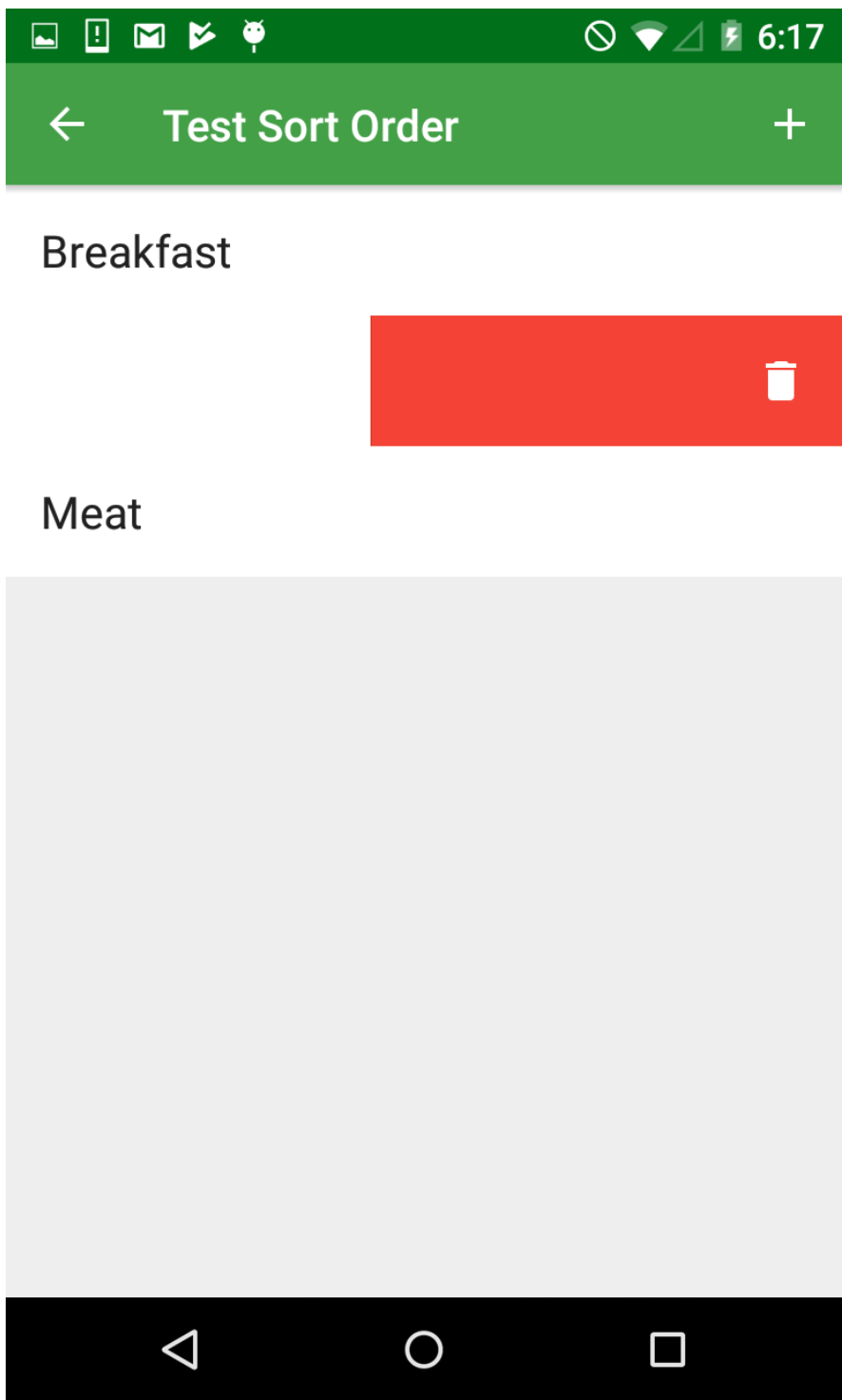
Click the '+' button to add a category to the sort order. If the user inputs an invalid category name then a toast message will appear that describes the error.



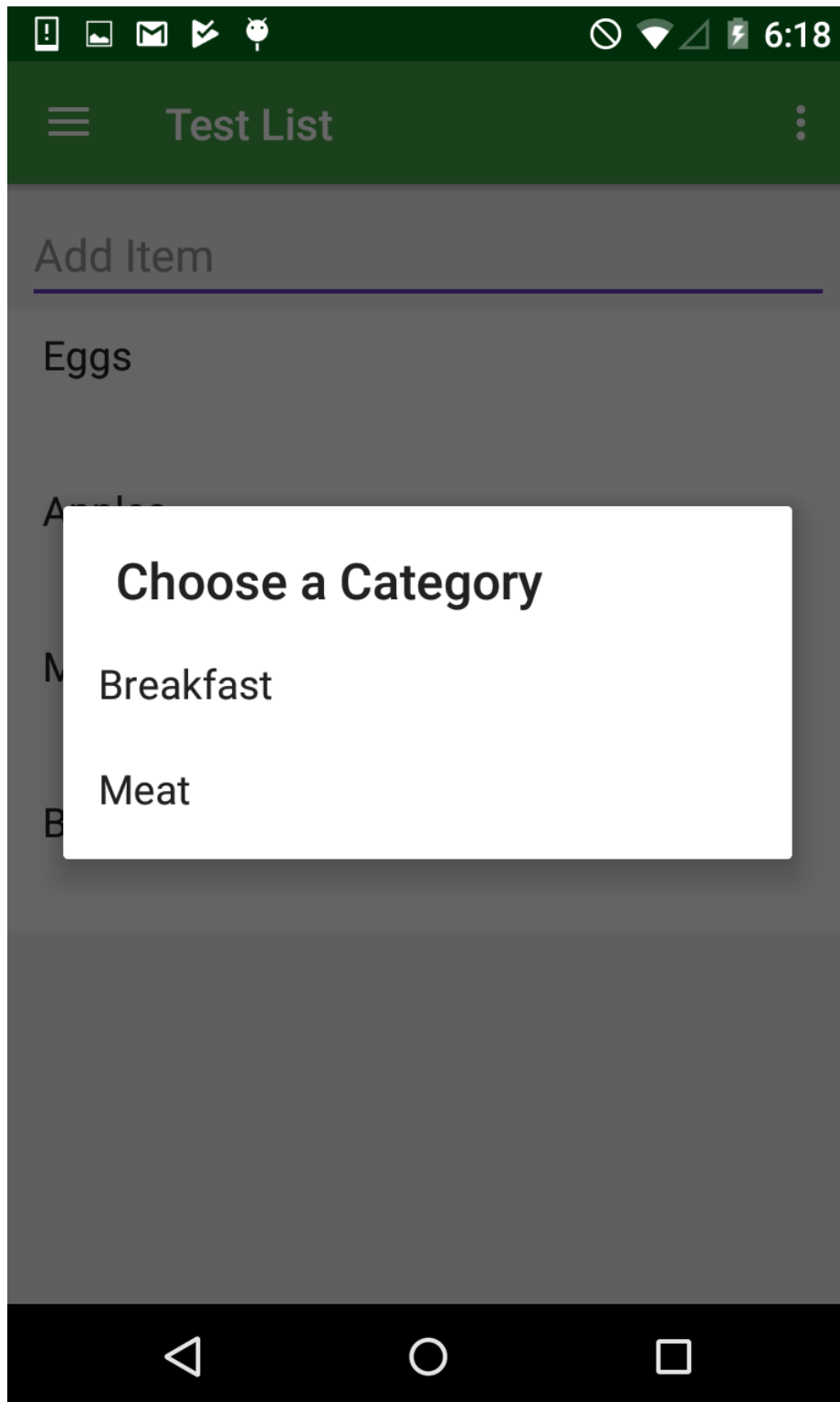
After adding items to a sort order, hold down to re-arrange them to change the 'priority' of certain categories.



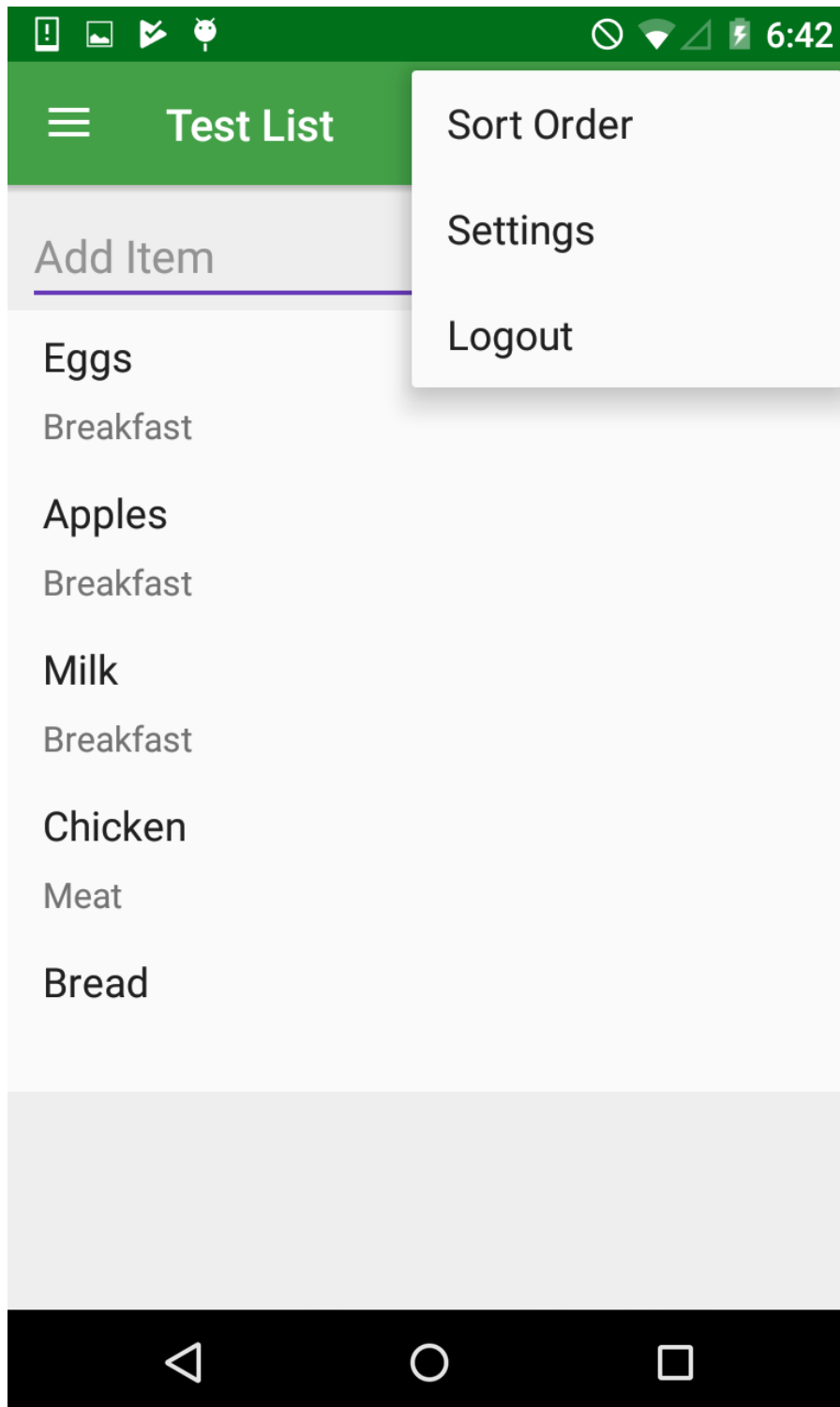
Swipe from right to left to delete categories from sort orders.



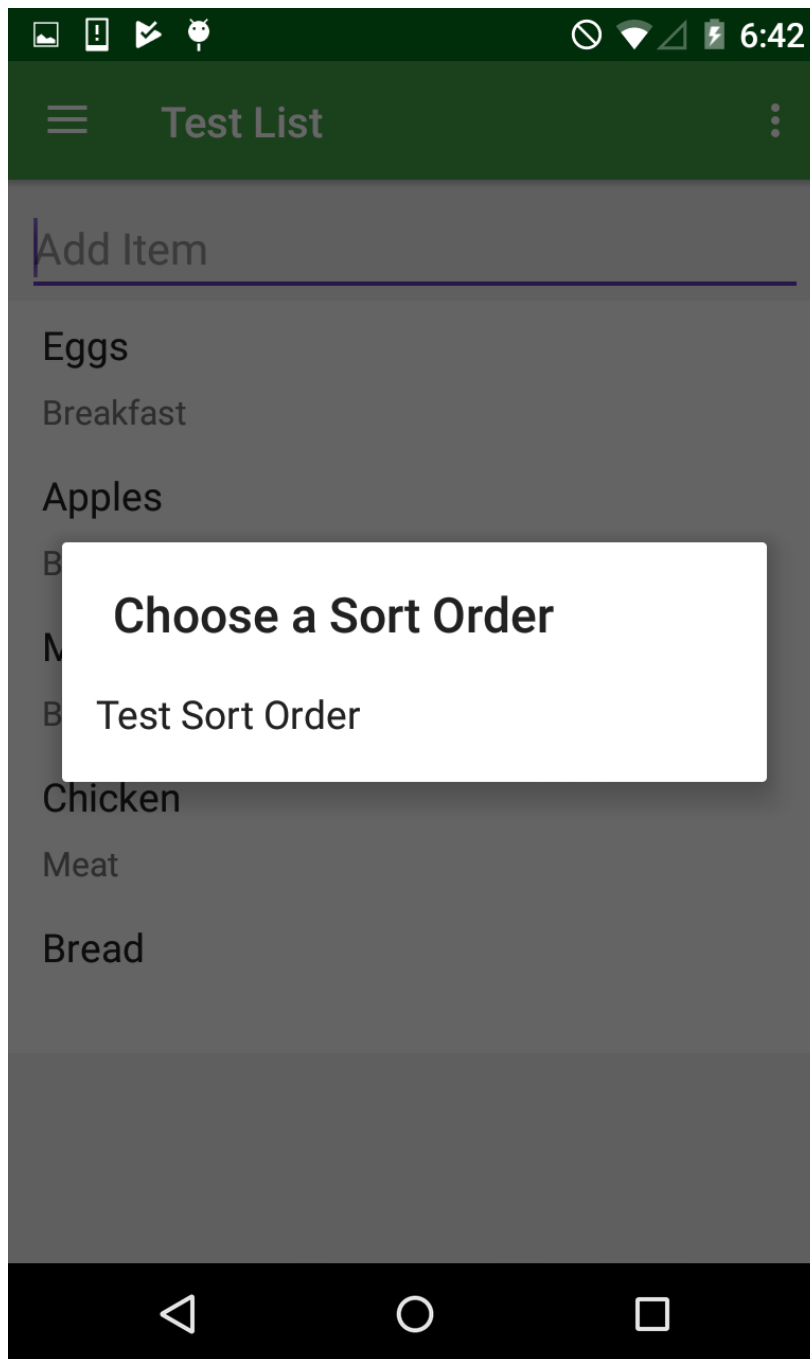
After creating a sort order with categories, when on a list, hold down to assign categories to items in the list.



Access the applied sort order by clicking the upper-right button and selecting sort order.



After clicking on 'sort order', it will show up with a list of made sort orders. Select one to apply it to the current list.



Depending on which sort order, or which way the current sort order is arranged, the items in the list will be sorted accordingly, with uncategorized items at the bottom of the list.

