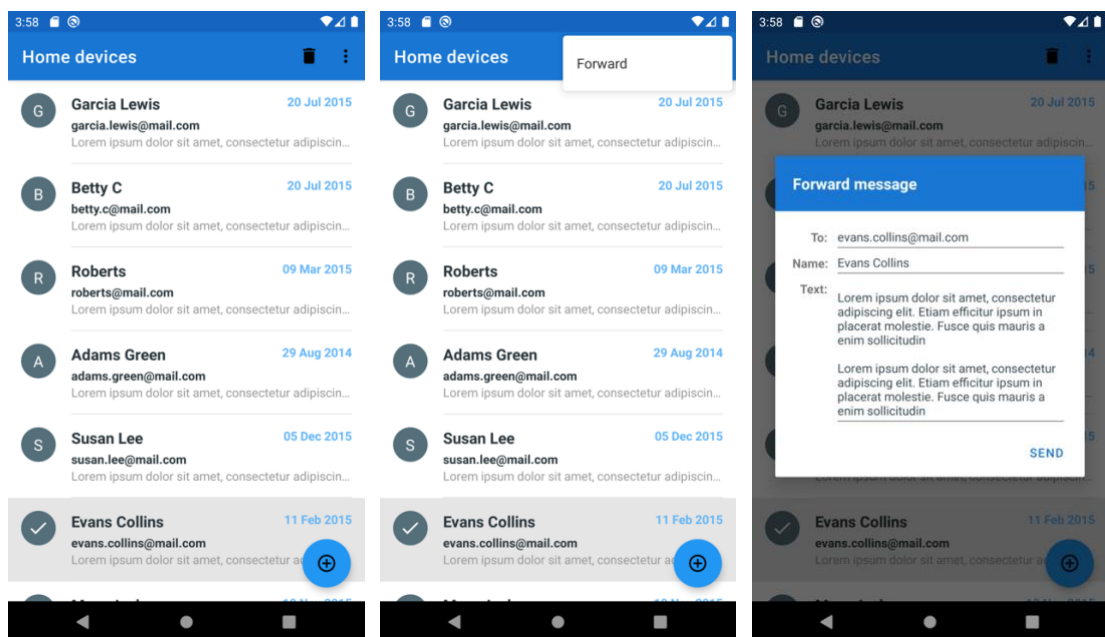


## CPSC 3367 – Mobile Apps Development

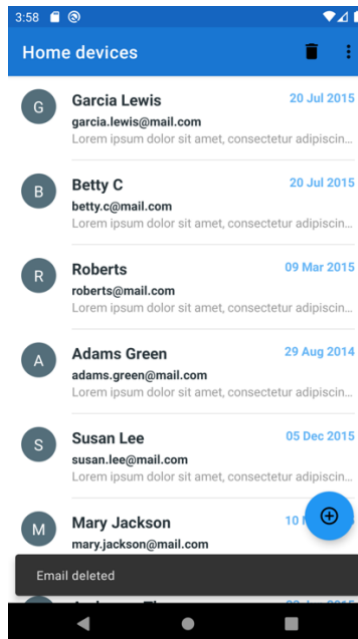
### Homework 07 · Max grade: 100%

Using the app developed in Homework 05, we will add new features to delete and forward a specific message by using the menu items on the top toolbar.

As a result of the assignment, you should have created an app with a look and feel similar to the one shown in the following images:



- When the user clicks on an item in the list, the item gets selected. Once selected, the item can be deleted or used to "forward" the message to a different email address.
- To implement the described behavior, ideally, two fragments should be created:
  - A first fragment that includes just the list of messages.
  - A second fragment that provides the user with a dialog to edit and forward a message.
- It will be necessary to establish communication between both fragments to keep information in both sides synchronized. We will use a shared ViewModel object for that.
- Additionally, a snackbar is displayed every time a message is deleted.



## Resources

You will have to create your project based on the one created for homework 05. If you didn't finish that assignment, feel free to ask professor Conde for a starting code.

Additionally, you will need to use the "delete" vector image available on Google's Material Icon library (remember that you can access that library right straight from Android Studio)

## Functionality

In [this video](#), you can see a video with the desired functionality.

## Summary

- **[10%]** Modify MainActivity's layout and the corresponding Java class to add a Toolbar and the targeted options menu.
- **[20%]** Decouple the RecyclerView we use to render the inbox list from the MainActivity. Create a new Fragment (InboxListFragment) and the corresponding layout. Move the recyclerView element to the new layout, and the code for the list setup and management to the Fragment class. Create and display the new fragment from MainActivity.
- **[10%]** Create a new ViewModel class to be used for the exchange of the inbox data between the activity and the fragments.
- **[10%]** Define a basic management of the inbox list:
  - Once selected, an item can no longer be deleted by tapping the thumbnail (watch the video)

- The Floating Action Button is still used to add a new random message to the top of the list. Make the changes required to make that work with the new project structure.
- **[10%]** Implement the new item deletion feature triggered when the corresponding option on the toolbar menu is tapped.
- **[20%]** Define a Fragment class (ForwardDialogFragment) and the corresponding layout for the new Forward dialog.
- **[5%]** Modify the Inbox class so that an Inbox object can be sent attached to an intent, and thus we can initialize an instance of the new ForwardDialogFragment class with the given Inbox data.
- **[5%]** Implement the new Forward feature triggered when the corresponding option of the toolbar menu is tapped. A new instance of the ForwardDialogFragment is created and initialized with the data of the currently selected item.
- **[10%]** Implement a new method called onSendBtnClicked to define the actions triggered when the user taps the "Send" button in the Forward dialog.