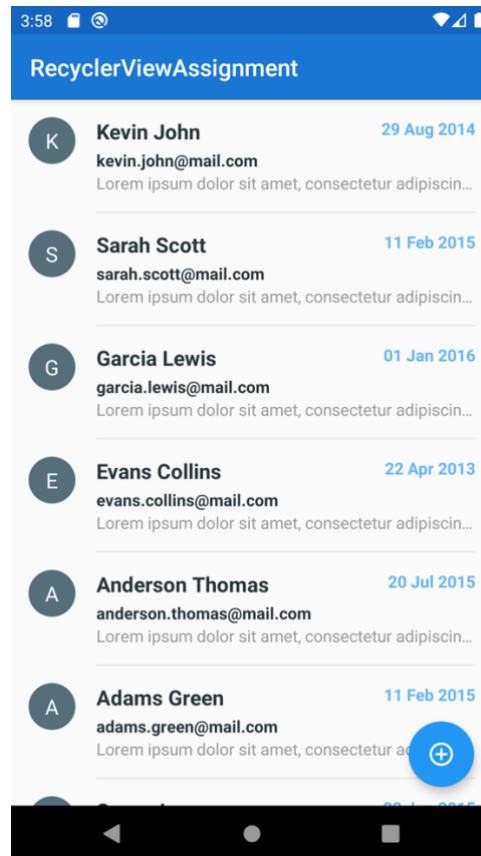# CPSC 3367 – Mobile Apps Development

Homework 05 · Max grade: 100%

In this assignment, you will have to implement using RecyclerView, an activity that mimics the inbox of an email application.

<u>Resources</u>

You'll have to implement the activity using the supplied colors, dimens, and images. You can download the project <u>here</u>. In the project, you will also find a simple Inbox class that represents every item in the Inbox list, and a helper class DataGenerator that you can use to generate a list of fake Inbox items.

<u>Functionality</u>

In <u>this video,</u> you can see a video with the desired functionality.

As you can see in the video, when an item is selected the corresponding row in the recycler view changes slightly visually speaking:

- An "X" icon replaces the letter in the thumbnail.
- The thumbnail becomes clickable, and it can be tapped by the user to delete the corresponding item
- The background color of the row changes to indicate that item is currently selected.

Summary

- **[5%]** Generate the item list to be displayed using the DataGenerator class.
- **[5%]** Add a new RecyclerView element to the Activity layout.
- **[5%]** Do the setup of a new RecyclerView instance to display the item list correctly.
- **[10%]** Define the layout of each item in the list.
- **[15%]** Create a new Adapter class and the corresponding ViewHolder class in a different file. The adapter will be used to populate the RecyclerView and manage the interaction with the items on the list.
- **[20%]** Detect click events on the list items. Implement a new method to toggle items' selection in response to click events.
- **[20%]** Detect click events on the thumbnail located on the left of every list row when the corresponding item is selected. Implement a new method to delete the corresponding item in the list.
- **[10%]** Create a new method to add a new item to the top of the list. Use the DataGenerator class to create the new item to be added.
- **[5%]** Create a new instance of the created Adapter class and bind it to the RecyclerView instance created in step 03.
- **[5%]** Invoke the method created to a new item to the top of the list, so it's triggered when the user taps the Floating Action Button.