# Project Members

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# Links

[GitHub repository](https://github.com/paddymills/inventory-manager/tree/final)

[Demo video](https://youtu.be/2qiU3ZIio-Q)

# Answers

1. Activities are
   1. MainActivity – app entry point
   2. ScanActivity – barcode scanner
   3. BarcodesListActivity – barcode database list with recycler view
   4. AddBarcodeActivity – where you add a barcode (don’t really count this one as it is incomplete, see notes below)
   5. SettingsActivity – settings activity using a settings fragment
2. In the BarcodeDatabase class, all database access and mutation functions run on different threads. Also, the barcode scanner runs its analysis on another thread, however this is baked into the executor model, so it does not achieve this in the explicit thread implementation we learned in class.
3. The confirmation dialog is in BarcodesListActivity. If you long press on an item, it brings up the detail fragment. If you then click on delete, it will prompt for confirmation of deletion.  
     
   There are several toasts:
   1. AddBarcodeActivity – when a barcode is added
   2. BarcodesListActivity – when a filter is added or removed
   3. MainActivity – when a barcode changes storage location
   4. ScanActivity – if camera permissions are denied
   5. ScanActivity – if multiple barcodes are selected for a use case that requires only 1 barcode
4. Save/restore of instance state is impemented in:
   1. BarcodeListActivity – to remember if filtered or not.
   2. AddBarcodeActivity – to persist barcode form data
   3. ScanActivity – to persist what activity had originally called it. This is useful in an event that the user goes MainActivity → ScanActivity → SettingsActivity. If the user exits the settings activity, the ScanActivity needs to know what activity is its true previous (in this case, MainActivity)
5. Advanced feature: barcode scanner using CameraX and Google’s ML-kit
6. I had some additional advanced features that I had originally proposed (remote database, Bluetooth barcode scanners) that I did not get to because of the complexity of the barcode scanner, but I hope to continue this project and implement at least the remote database later.
7. 1 person group, I did everything

# Notes

I really had issues keeping my sights narrowed. This app will probably go into production at my work, so I constantly was seeing new features to add. I will be continuing the development of this project, which is why the GitHub link goes to the “final” branch, although I will try to keep master at the same level for some time. You will also see a lot of `// TODO: ` comments in the code for features I thought of but need more time to flush out.

The add barcode activity is largely incomplete at the moment. It has some basic functionality, but needs more work.

Also, some of the navigation is broken. I kind of hacked together a mechanism, but now realize I need a more robust solution as sometimes the app crashes on multiple back button clicks.