

CIS 3515 Assignment 3

Instructions: Create an application that allows a user to select an image from a **RecyclerView** and once selected, display the selected image inside the main activity.

1. Create an application with an activity called **ImageActivity** (your Main activity)
2. Add a collection of images to your project as **drawable** resources matching a theme of your choice (e.g. Dogs, Cats, Mountains, Comic Book characters, etc.). You should have no fewer than 10 images. You should also have a textual name/description for each of the images in your application.
3. Add a RecyclerView, an ImageView and a TextView to your activity's layout, ensuring that all views are nicely arranged.
4. Your RecyclerView should use a **GridLayoutManager** so that its views are displayed in a grid. You can decide on the number of columns you would like to have, as long as it's more than 1.
5. Create a **custom adapter** called **ImageAdapter** that inherits from **RecyclerView.Adapter**. This adapter will generate views containing the drawables you added to your project earlier. The views generated should be relatively small; approximately 200x200 pixels, but you can adjust that size based on how many columns your RecyclerView has.
6. When the user clicks an item in the RecyclerView, the activity should display a larger version of the selected image in its ImageView, along with the item's name/description in its TextView.
7. **Be sure to make commits as you progress and to push your project to GitHub after each commit – This is necessary to create an audit trail of your work.**

Rubric

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| Images added to project as drawable resources | 10% |
| RecyclerView uses GridLayoutManager for layout | 10% |
| Application creates custom instance of RecyclerView.Adapter and implements all methods | 40% |
| Event listener is implemented for views in adapter | 30% |
| Activity updates when RecyclerView item is clicked | 10% |