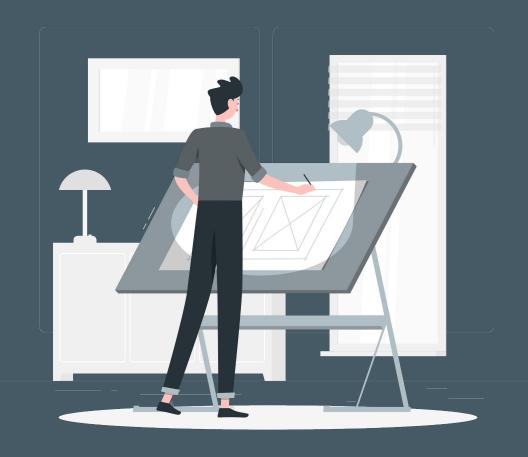
Week 5 Lecture

Fragments





Project Demo

What are we building this week?

01 | 02

Fragments

Building composable U1 using Fragments



Project Demo

What are we building this week?

Week 5 Project Updates

- Create a LocationEntryFragment
- Create a CurrentForecastFragment
- Create an AppNavigator interface to navigate between fragments
- Add a FloatingActionButton to show LocationEntryFragment after forecast data is displayed



Fragments

Building composable UI using Fragments

How to reuse pieces of UI?

Fragments

Reusable portions of U1 that can be composed together within a single Activity

Fragments

Fragment

Has its own layout and lifecycle. Can be defined in XML or added/removed programmatically

FragmentManager

Manages what Fragments are currently showing on the screen. Use the FragmentManager to add/remove a Fragment.

FragmentTransaction

Represents the addition or removal of a single Fragment from its container.



Composable UI

Add & remove multiple fragments in a single screen

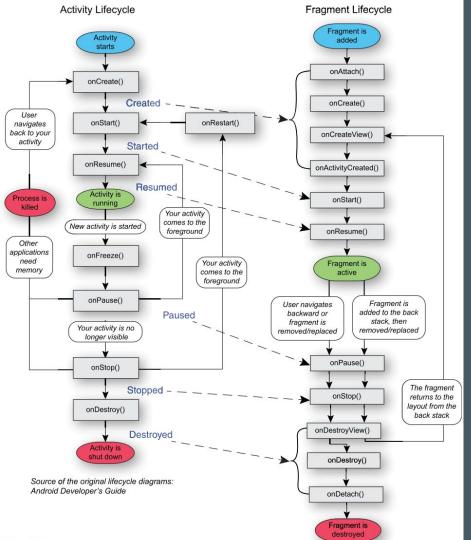
Adding a Fragment Using XML

```
<fragment
    android:id="@+id/locationEntryFragment"

android:name="com.goobar.io.ad340.location.LocationEntryFragment"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    />
```

Adding a Fragment Programmatically

```
supportFragmentManager
.beginTransaction()
.add(R.id.root, Fragment())
.commit()
```



Fragment Lifecycle

Fragment lifecycle is very similar to Activity lifecycle

Fragment Lifecycle

onAttach()



onCreateView()

Fragment layout is inflated and returned



onStart()

Fragment is visible on screer



onResume()

Fragment is active on screen



onStop()

Fragment no longer visible



onDestroyView()

Fragment view is destroyed



onDetach()

Fragment is removed from Activity

Check Canvas For Additional Resources & Assignments