

Week 5 Lecture

Fragments





01

Project Demo

What are we building
this week?

02

Fragments

Building composable UI 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 UI that can be composed together within a single Activity

Fragments

Fragment

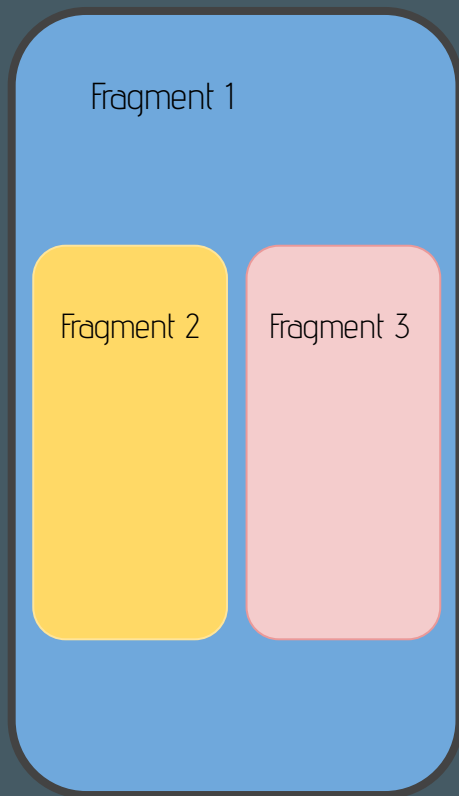
Has its own layout and lifecycle. Can be defined in XML or added/removed programmatically

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

activity_main.xml

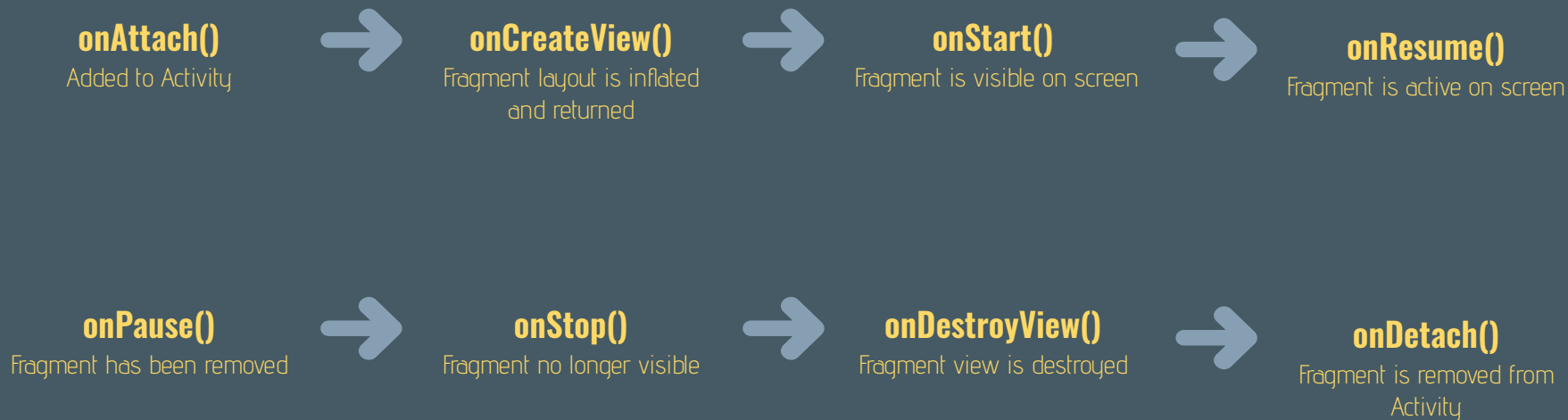
```
<fragment  
    android:id="@+id/locationEntryFragment"  
  
    android:name="com.goobar.io.ad340.location.LocationEntryFragment"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
/>
```

Adding a Fragment Programmatically

MainActivity

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


Fragment Lifecycle



**Check Canvas For
Additional Resources
& Assignments**