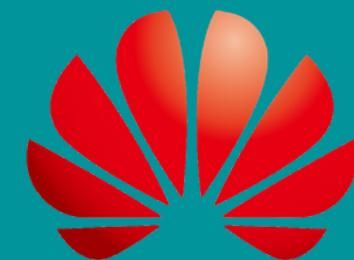




YALOVA UNIVERSITY

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HUAWEI

# Android Programming with Huawei Mobile Services

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# WHAT WE DO TODAY

## Overview of Lesson

- What is Fragment?
- Usage of Fragment
- Fragment vs Activity
- Fragmentmanagers
- Fragment Live Cycle

## Codelab

- Fragment & Viewpager sample app



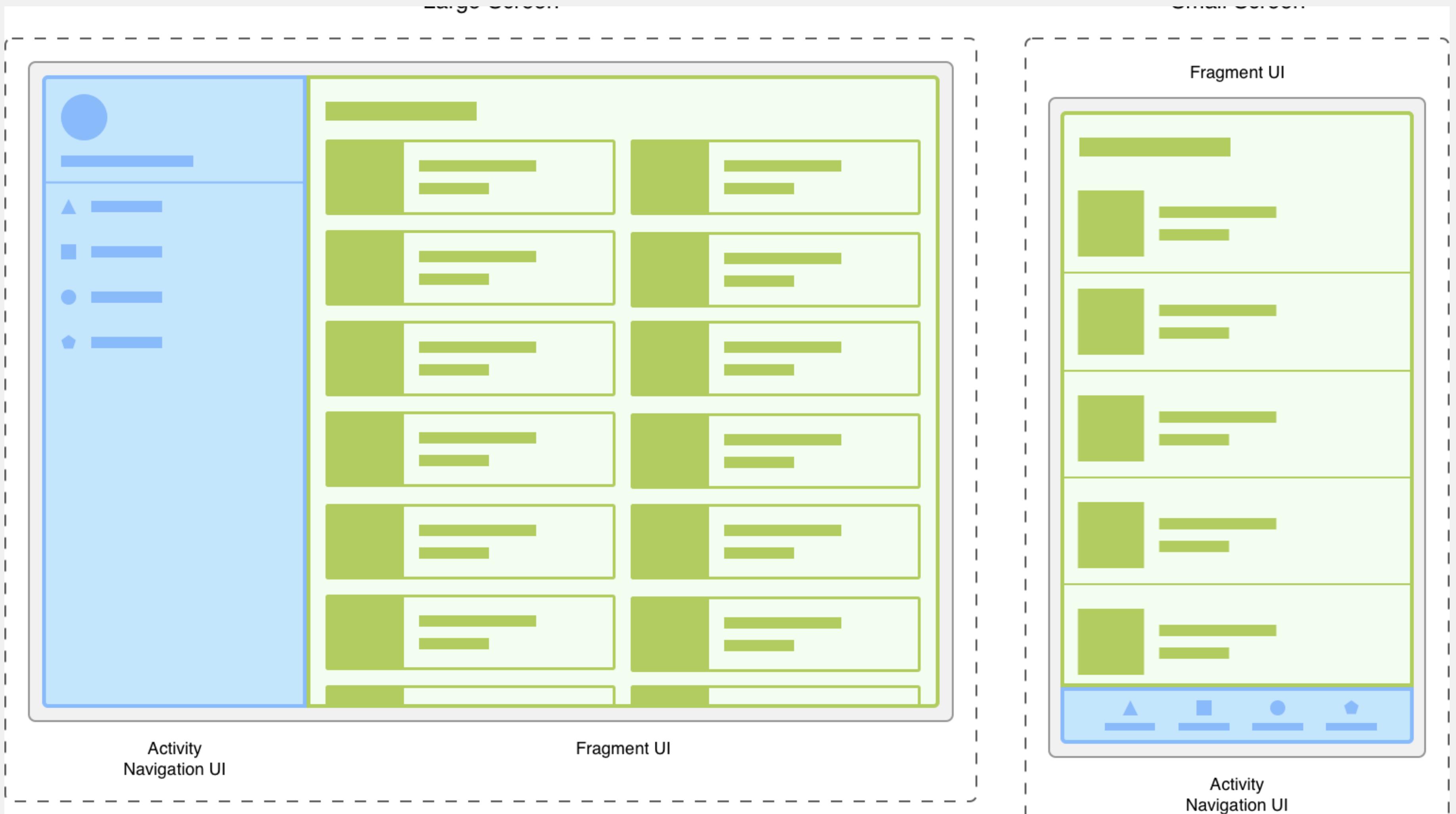
# What is Fragment?

# FRAGMENT

- A Fragment represents a reusable portion of your app's UI.
- A fragment defines and manages its own layout, has its own lifecycle, and can handle its own input events.
- Fragments cannot live on their own--they must be hosted by an activity or another fragment.
- Fragments are managed by FragmentManager



# Usage of Fragment



# HPass



Here are some tips for you!



## Scan your Boarding Passes

You can easily add your boarding passes with scan button by scanning the **QR code!**  
You can **list** tickets & view the **details** by clicking on!  
Your out-of-dated tickets will be archived!

...

Skip



## Add your Loyalty Cards

You can easily add your favorite company's cards both **manually** and **by scanning!**  
You can **list** cards & view the **details** by clicking on!

...

Skip

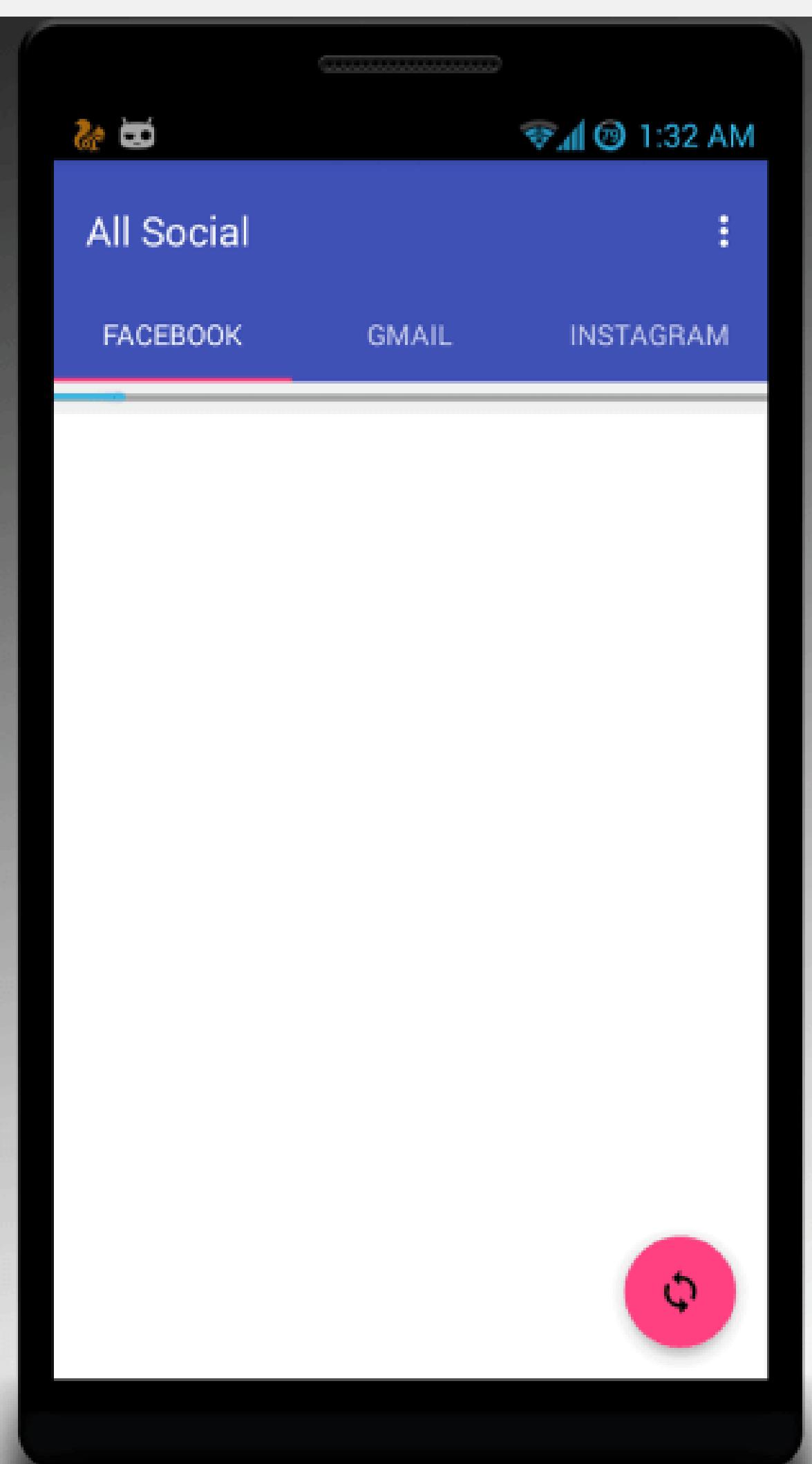
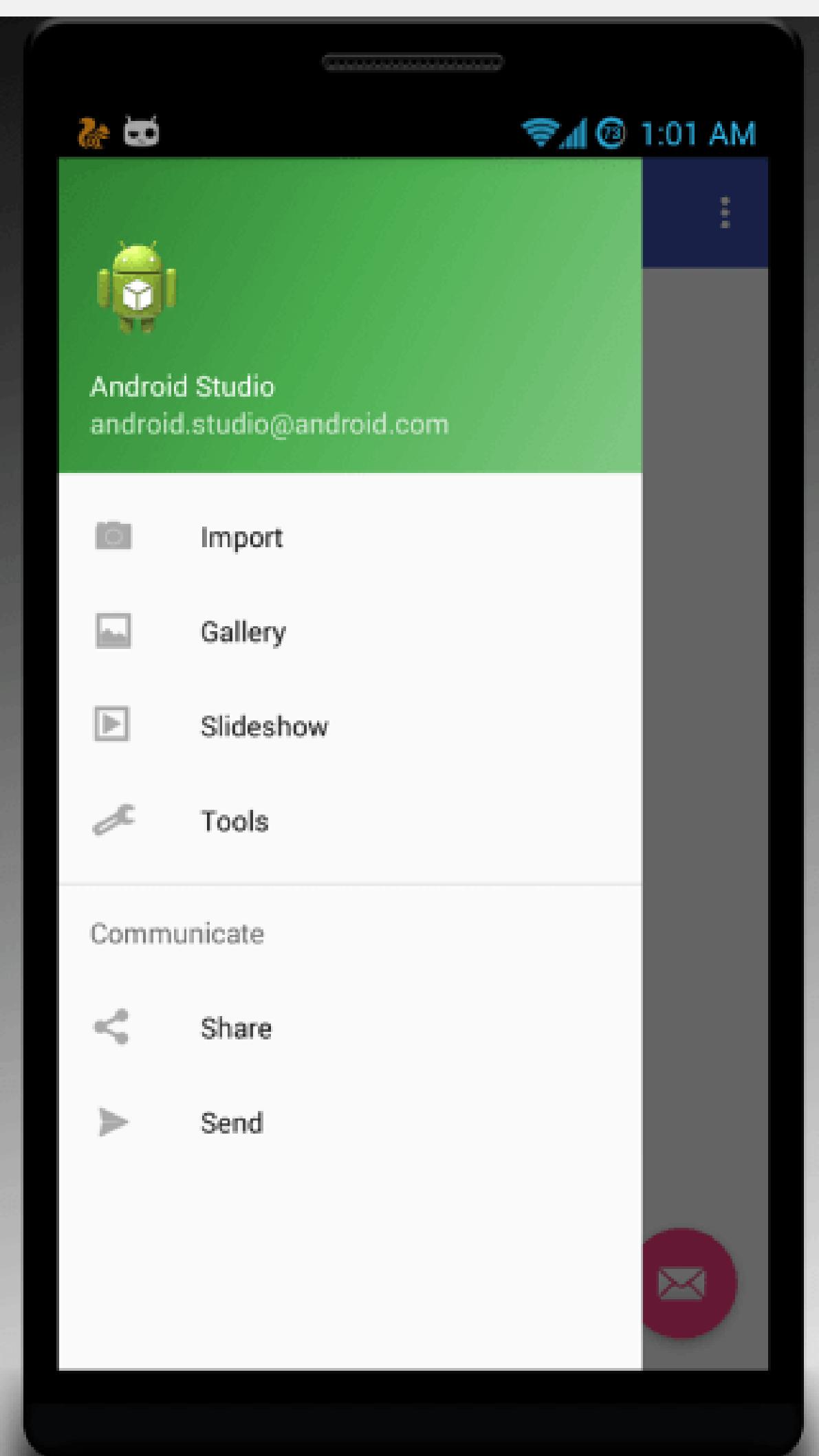


## Create your Business Cards

You can create your own business card, upload your company **logo** and choose the **colors** of your card!

...

Get Started!





# Fragment vs Activity

# FRAGMENT VS ACTIVITY

- You can add or remove fragments in an activity while the activity is running.
  - You can combine multiple fragments in a single activity to build a multi-pane UI.
  - You can't combine multiple activity in single screen.
- 
- Activities are independent fragments are depended on activities or another fragment(context)
  - The fragment life cycle is closely related to the lifecycle of its host activity.
  - A fragment can be used in multiple activities.

# FRAGMENT MANAGER

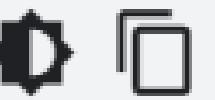
```
FragmentManager fragmentManager = getSupportFragmentManager();
fragmentManager.beginTransaction()
    .replace(R.id.fragment_container, ExampleFragment.class, null)
    .setReorderingAllowed(true)
    .addToBackStack("name") // name can be null
    .commit();
```



```
FragmentManager fragmentManager = getSupportFragmentManager();
fragmentManager.beginTransaction()
    .replace(R.id.fragment_container, ExampleFragment.class, null)
    .setReorderingAllowed(true)
    .addToBackStack(null)
    .commit();
```

...

```
ExampleFragment fragment =
    (ExampleFragment) fragmentManager.findFragmentById(R.id.fragment_container)
```



```
FragmentManager fragmentManager = getSupportFragmentManager();
fragmentManager.beginTransaction()
    .replace(R.id.fragment_container, ExampleFragment.class, null, "tag")
    .setReorderingAllowed(true)
    .addToBackStack(null)
    .commit();

...
ExampleFragment fragment = (ExampleFragment) fragmentManager.findFragmentByTag("tag")
```

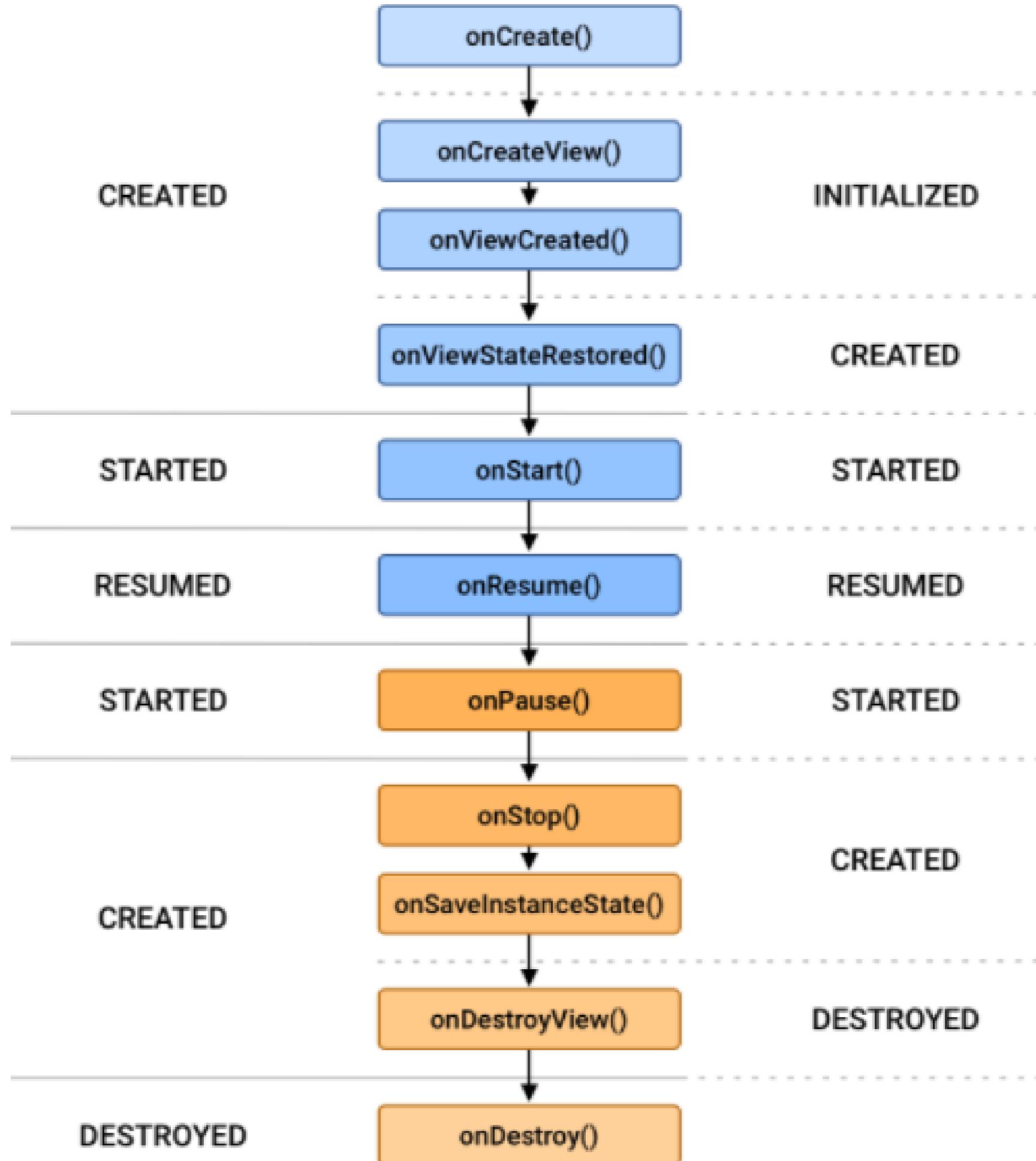


# Fragment Lifecycle

### Fragment Lifecycle

### Fragment Callbacks

### View Lifecycle





# Let's Create Sample App



# LET'S TALK CONTACT INFORMATION

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