

Android Components

ACTIVITY

SERVICE

BROADCAST
RECEIVER

CONTENT PROVIDER

ACTIVITY

- ❑ Anything that appears on the screen is basically an activity
- ❑ Its an visual representation of an application- so whatever application the user interacts is basically possible because of the presence of an activity
- ❑ An application can contain multiple activities

INTENT

- Intention to perform action
- Contains a motive to trigger an event or to perform an action in the android OS or in any application
- Basic functionality of this intent is to start an activity or launch an application



Start an activity



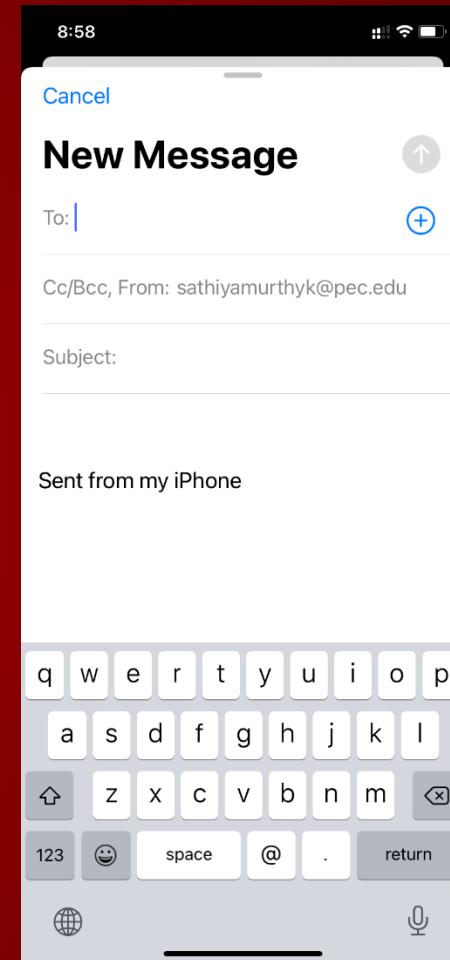
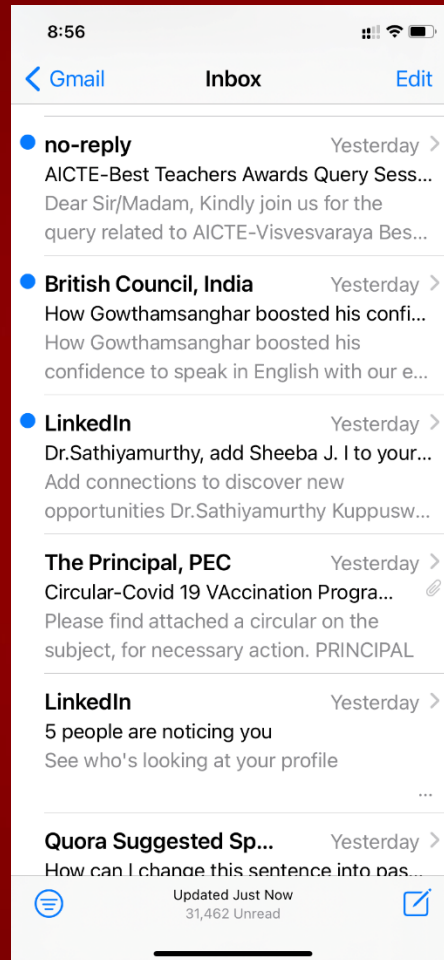
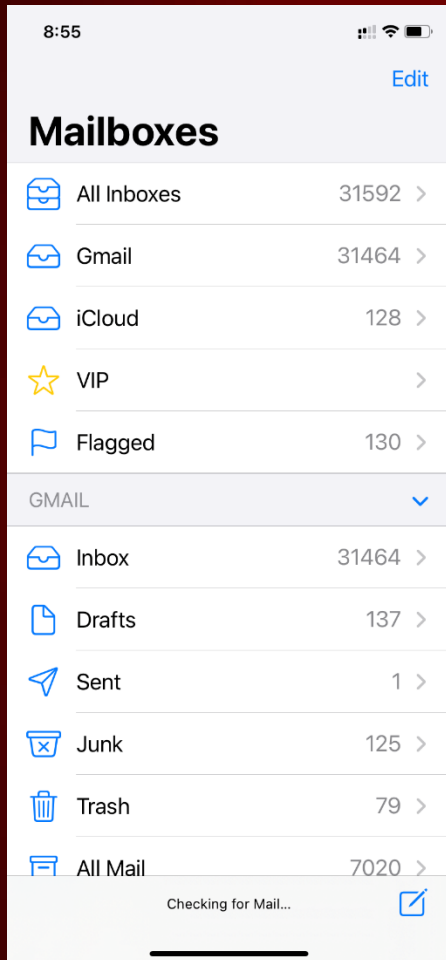
Start a service



Deliver a Broadcast for
Broadcast receiver

INTENT

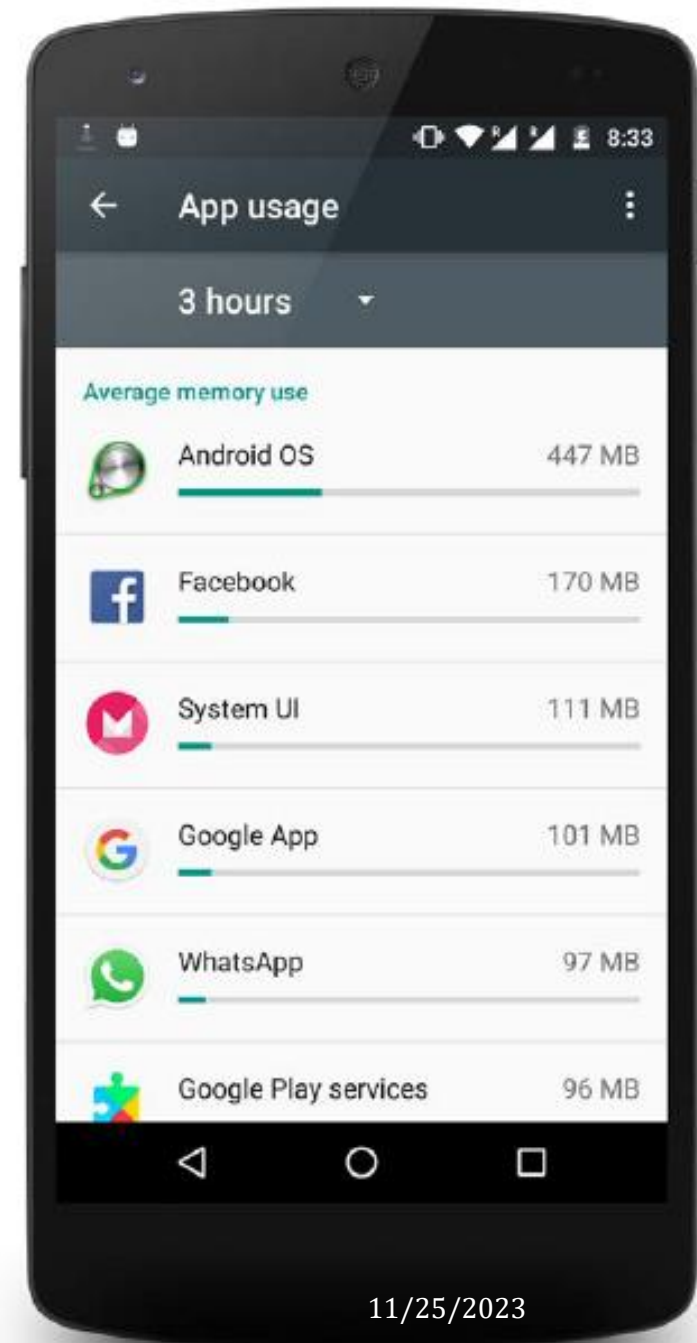
ACTIVITY



* Migration from 1 activity to another activity is possible with the help of special class Intent

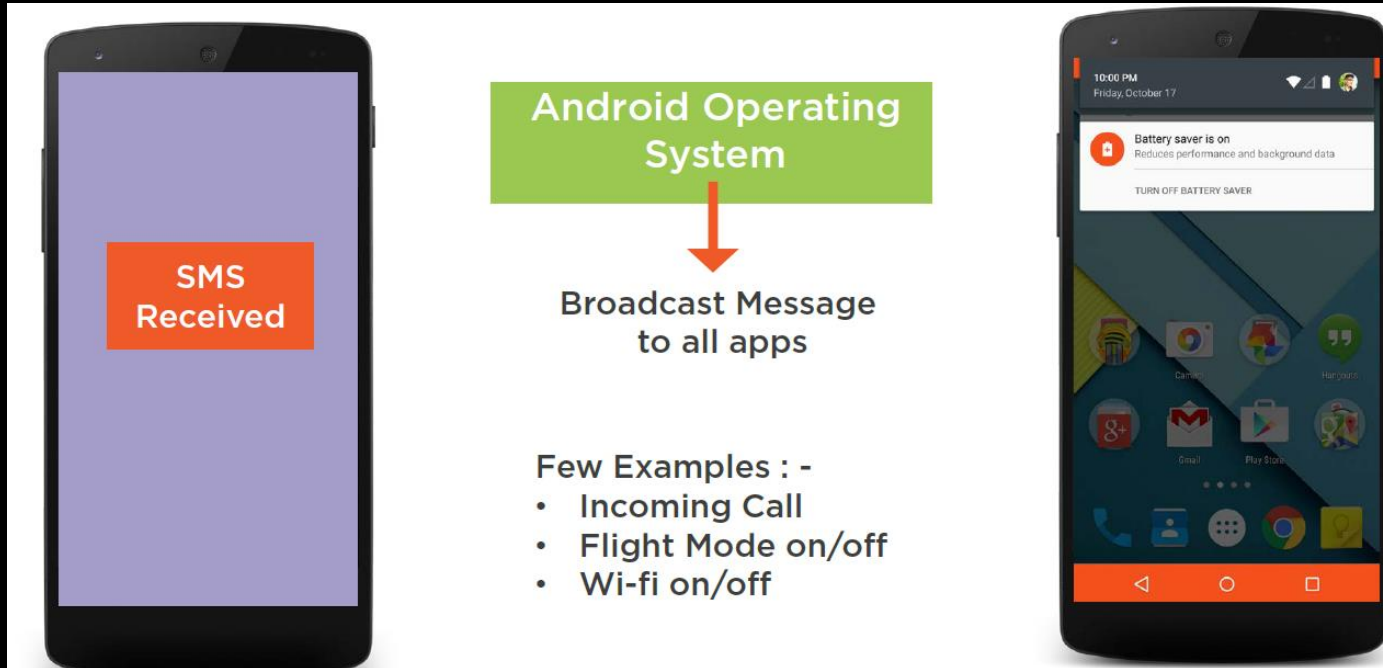
SERVICE

- ❑ Runs in Background
- ❑ No UI
- ❑ Can be started by activity
- ❑ Can be started by Broadcast receiver
- ❑ Examples
 - ❑ Playing music
 - ❑ Downloading or uploading an app

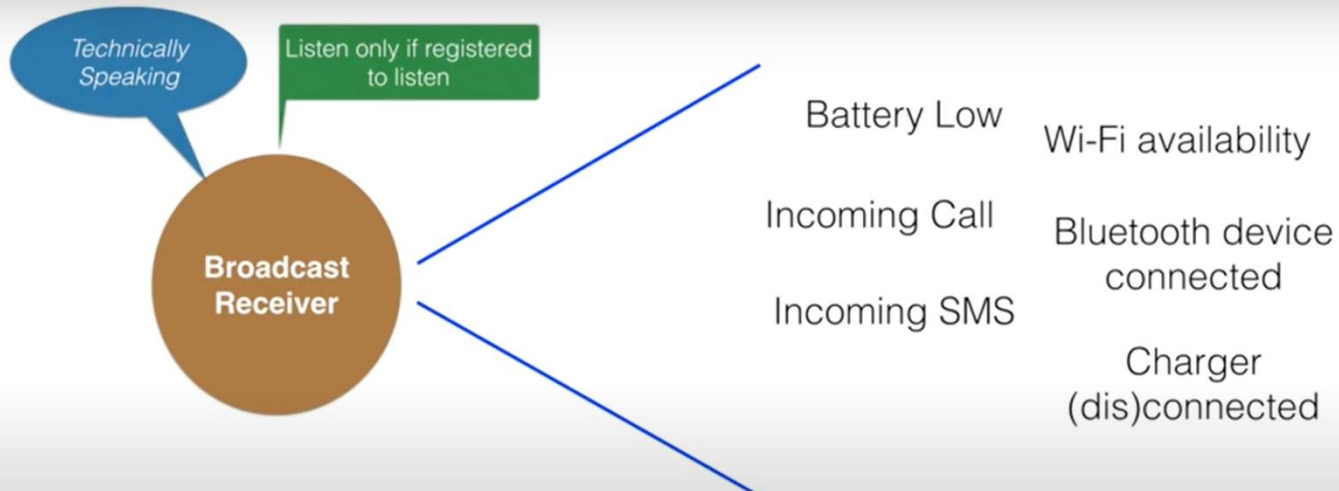


BROADCAST RECEIVER

Whenever there is some kind of disturbances then AOS broadcast messages to all applications

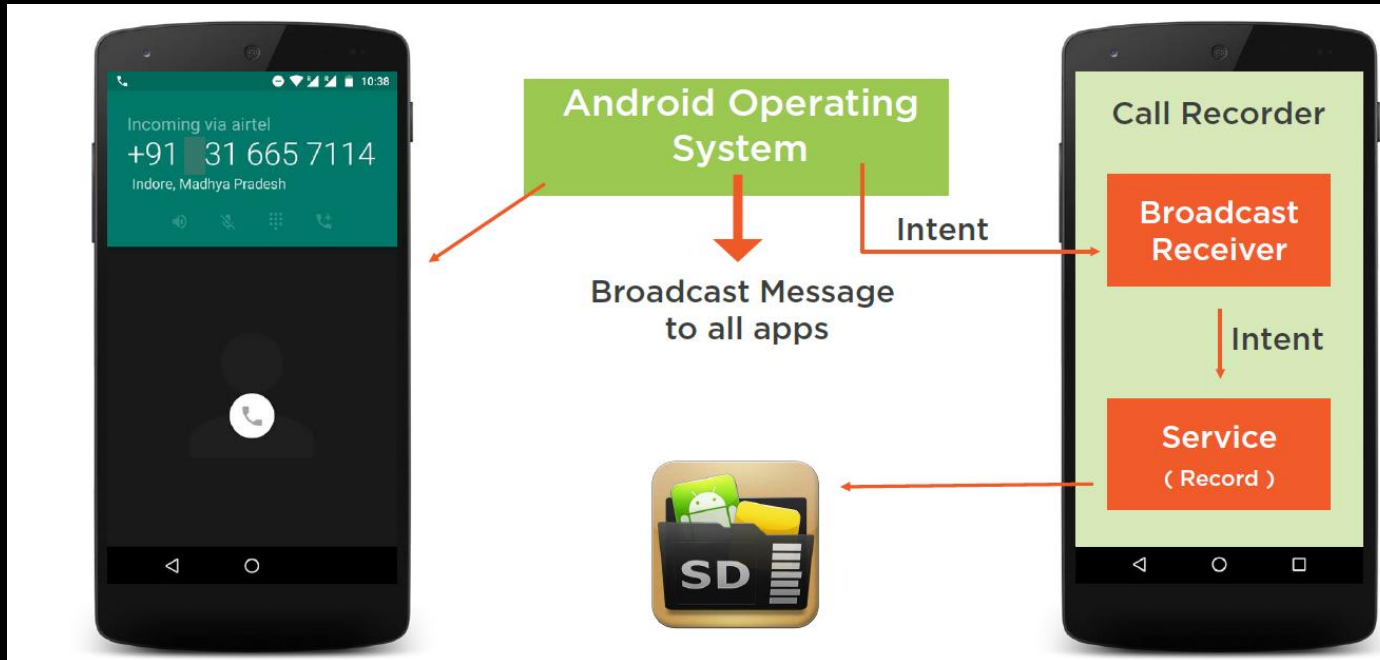


BROADCAST RECEIVER



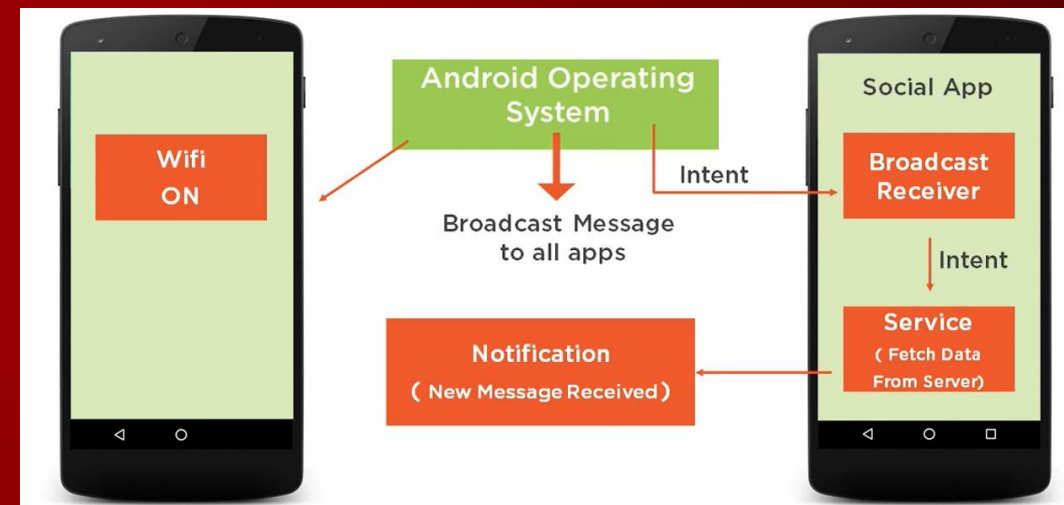
BROADCAST RECEIVER

Example – call recorder app registered for call receiver

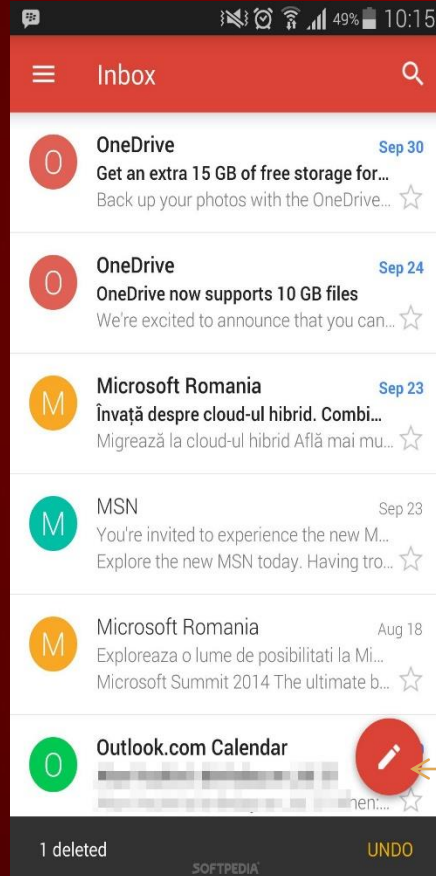


BROADCAST RECEIVER

- Example for social media data update with WIFI on



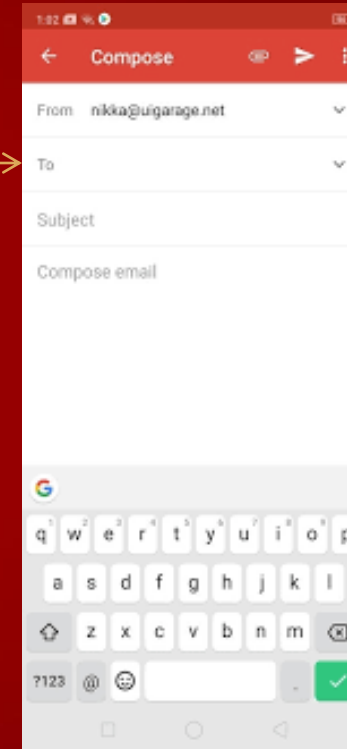
Using Activities to listen to Events



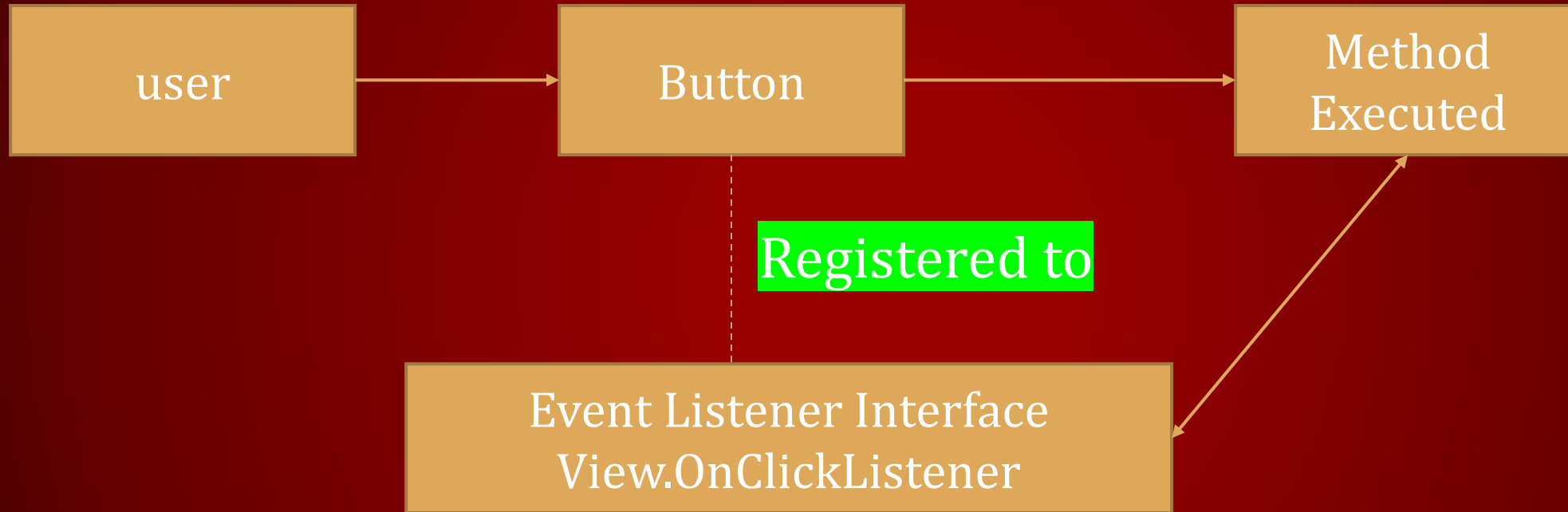
Event is Triggered

Intent

Navigate to
second
Activity



Event Handling



Event Handling: Downloading Example

