# **UML** Diagram

#### View

## **AppCompactActivity**

- virtual OnCreate()
- virtual OnStart()
- virtual OnResume()

### **MainActivity**

- override OnCreate()
- override OnStart()
- override OnResume()

MainActivity simply opens JoystickActivity

# JoystickActivity

override OnCreate()
 In charge of databinding and communication with VM

The view is what the user sees and uses to control the system. Activities are like programs.

#### View

- virtual onMeasure
- virtual onDraw
- virtual onTouchEvent

## **AppCompactSeekBar**

#### VerticalSeekBar

Overrides the methods above in order to be used as vertical seekbar

#### **Joystick**

Custom view component with circle used to control the plane

Main adjustable views we used. There are more native ones.

## View Model

#### **BaseObservable**

#### ViewModel

- Private model
- Properties:
  - lp
  - Port
- -> Throttle
- > Rudder
- --> Elevator
- → Aileron
- runModel() runs the private model using ip, port properties

Controls the program.

"properties" are updated by the view and passed to model.

#### **NOTATION:**

Yellow box: note

Green box: provided by Android Studio

Dashed line: data binding

### Model

#### Model

- connectToServer(ip, port)
   connect and run the
   app
- Setters (aileron, elevator, throttle, rudder)

## ManageConnect

- ConnectAndRun()
- AddToQueue(string) add instruction to be passed
- StopRun()

Its job is to connect the server and send data given by the view model, when any update is made