



# MVI FOR ANDROID

Miguel Alegria Android Developer

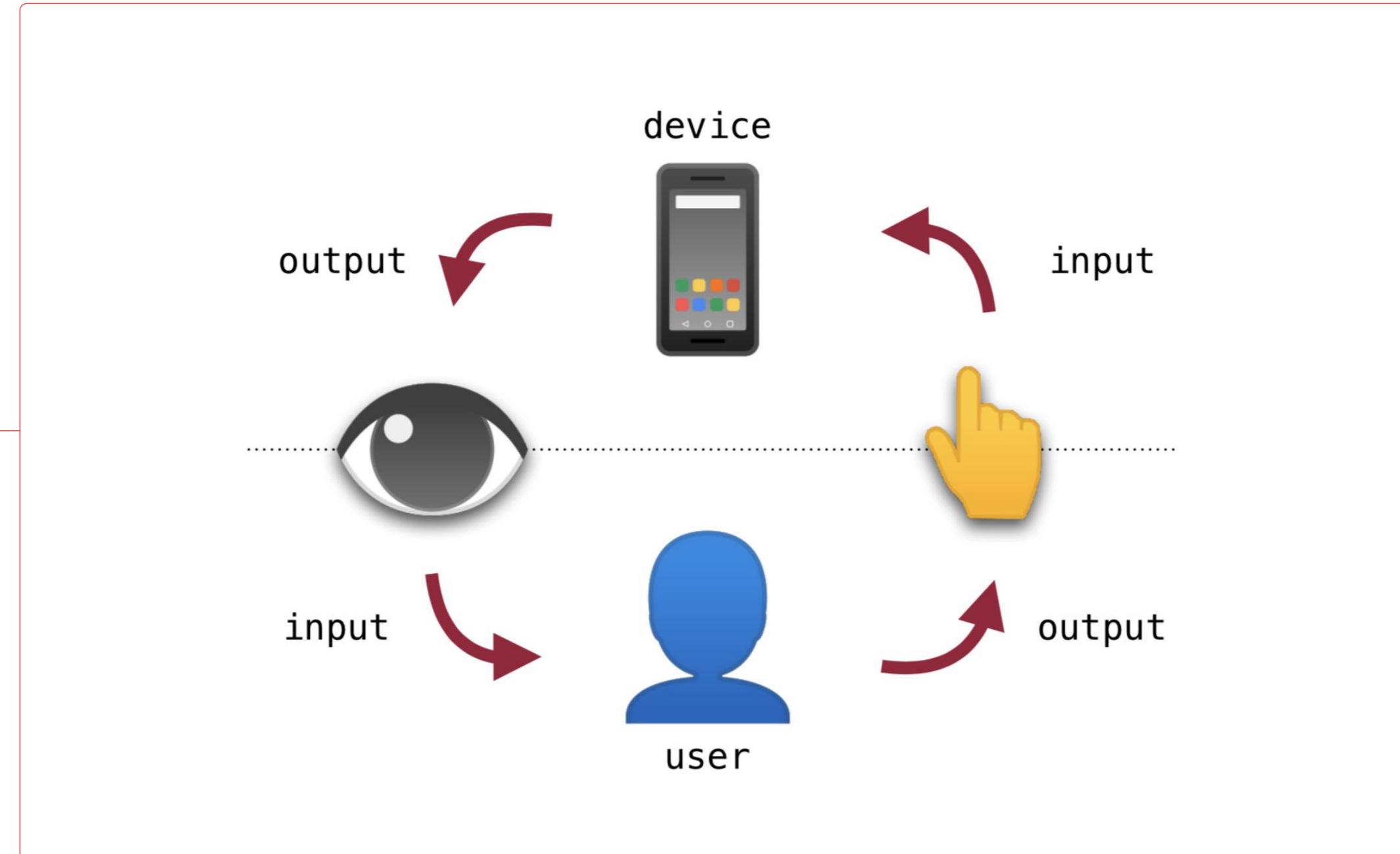
# About me

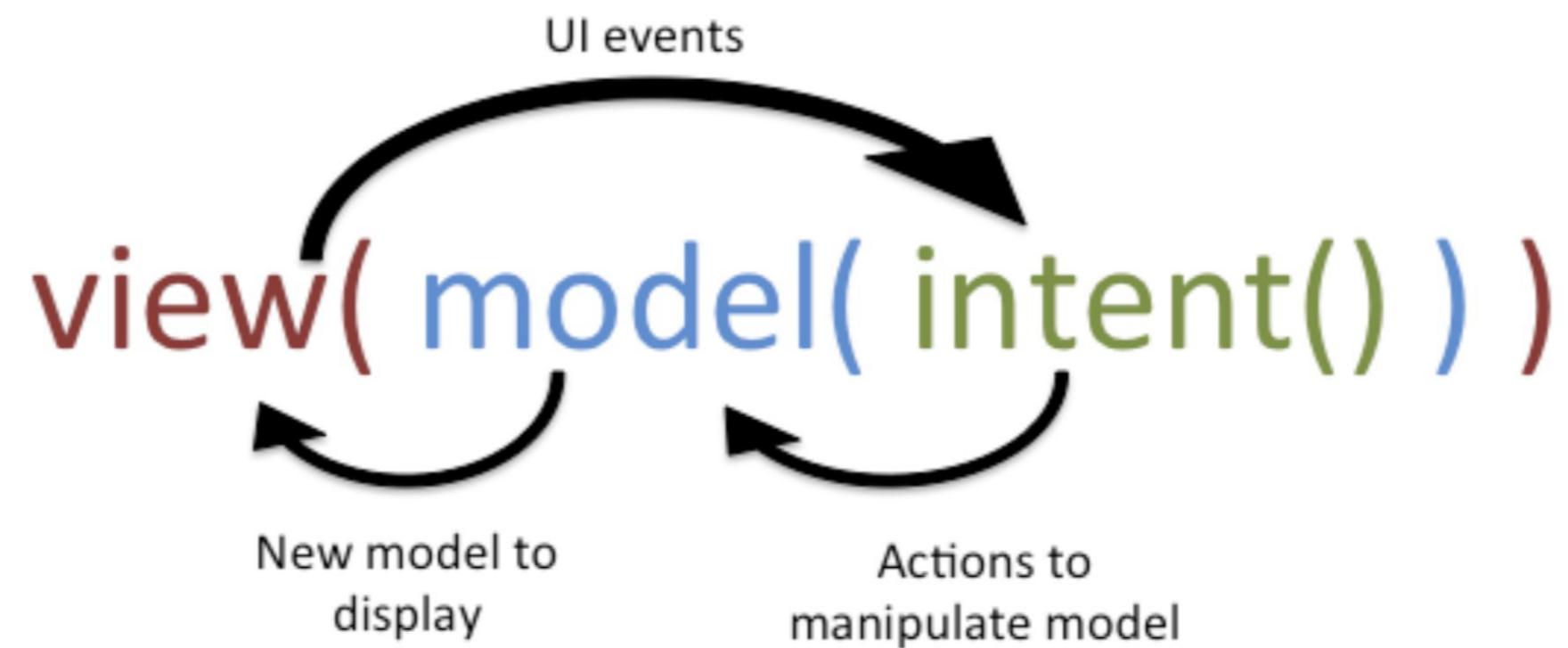
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@MikelAlegria

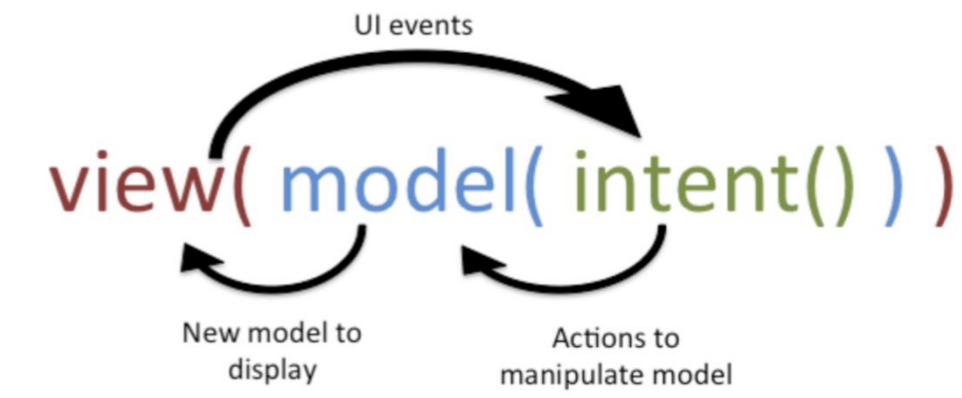
Android developer at Rappi

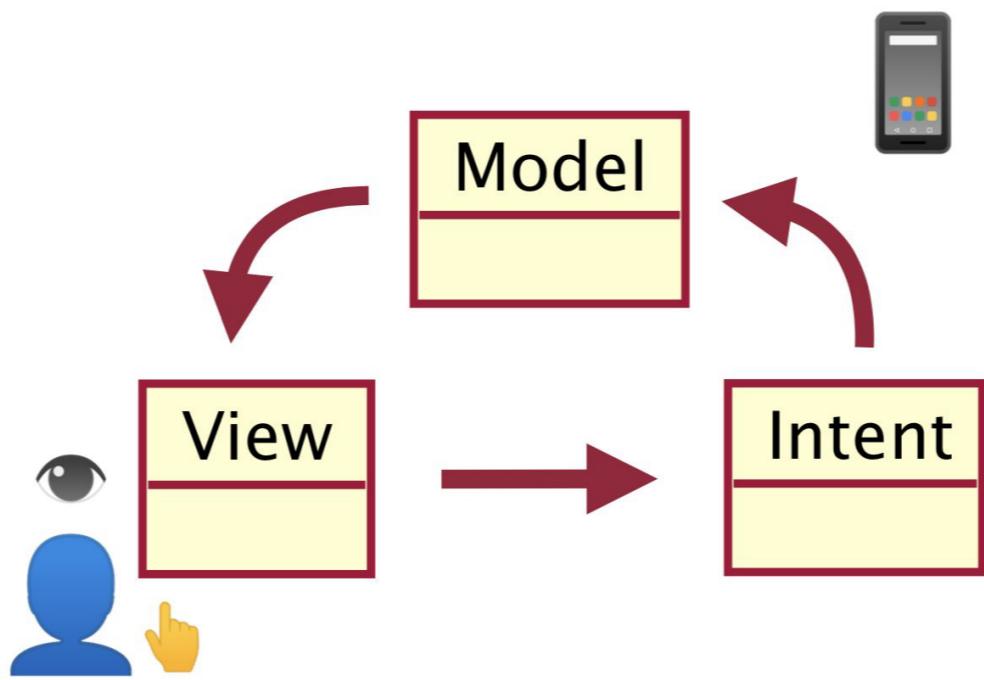


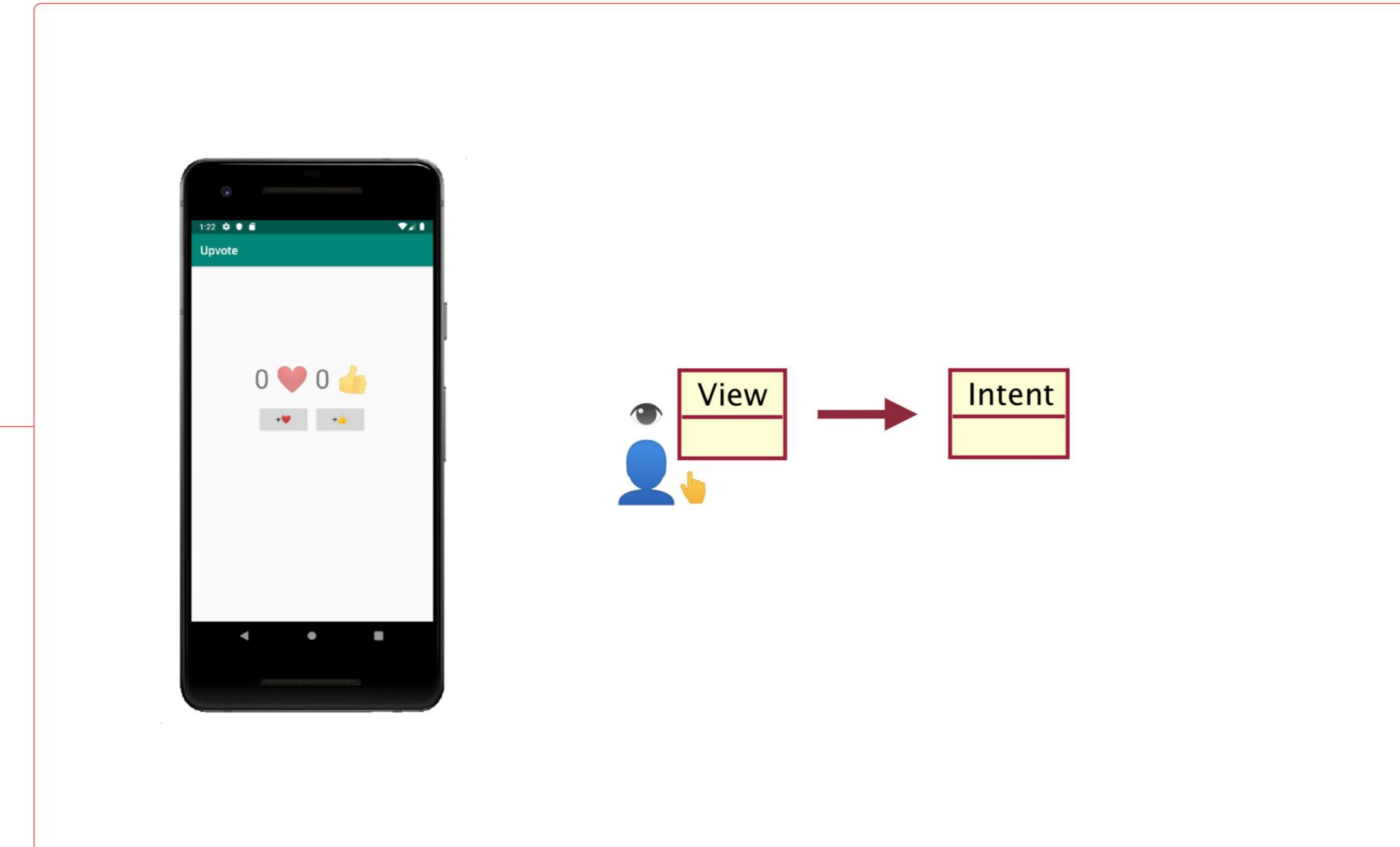


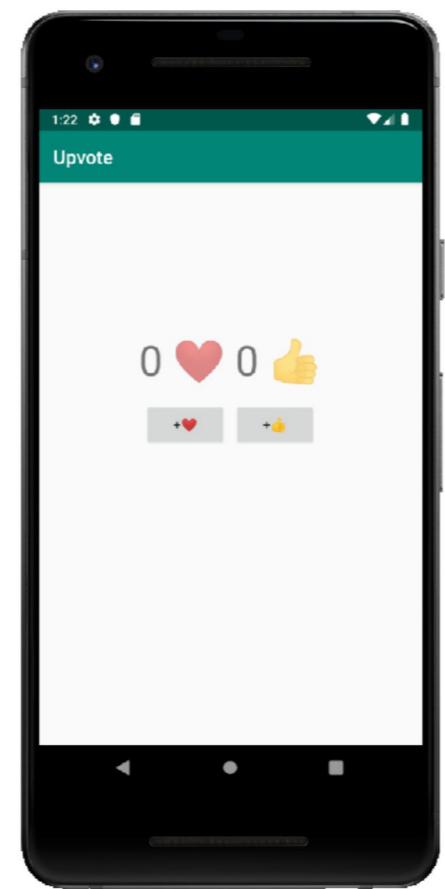


- View -> Fragment/Activity
- Model -> Data/POJO/Sealed
- Intent -> Magic

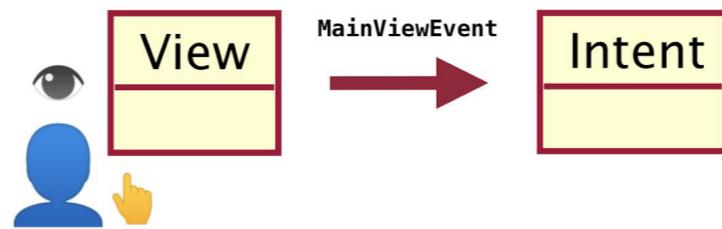


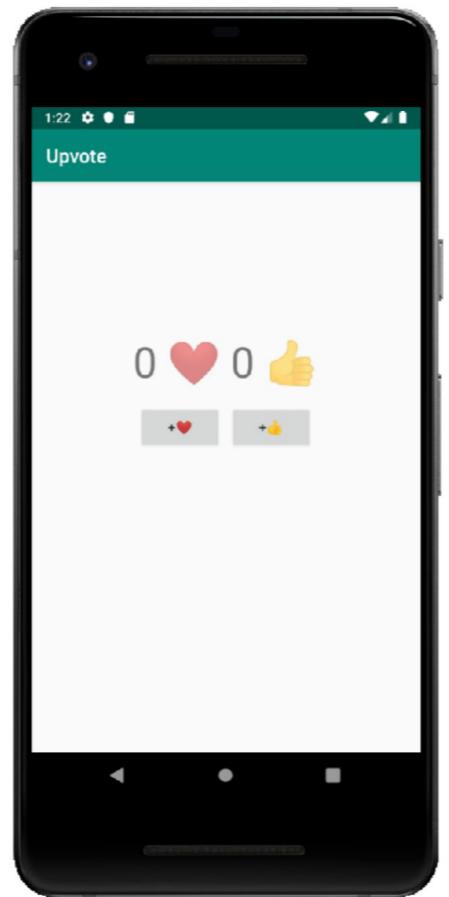






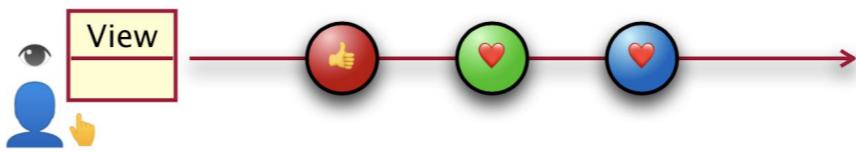
```
sealed class MainViewEvent {  
    object ThumbsUpClick : MainViewEvent()  
    object LoveItClick : MainViewEvent()  
}
```

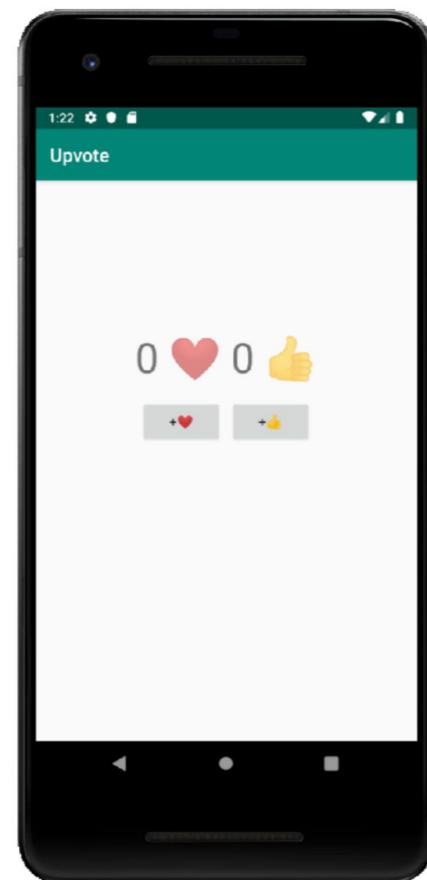




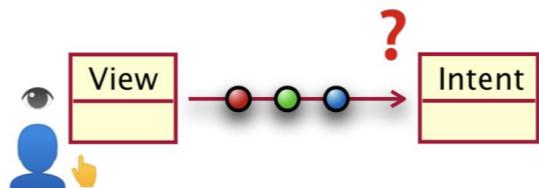
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sealed class MainViewEvent {  
    object ThumbsUpClick : MainViewEvent()  
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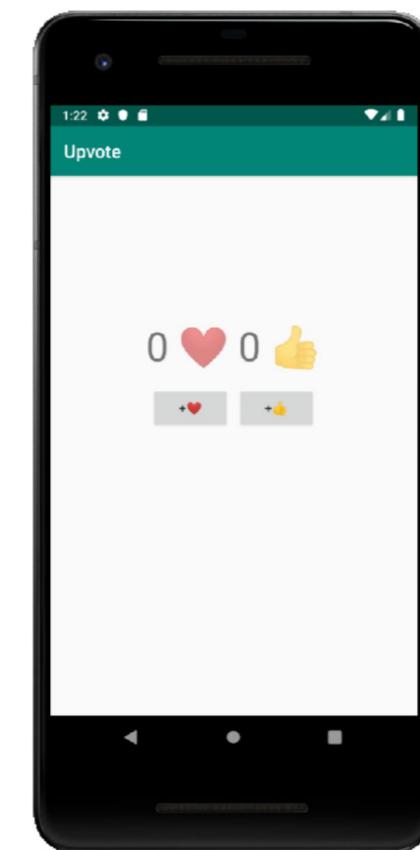
○ MainViewEvent  
+👍 ThumbsUpClick  
+❤ LoveItClick



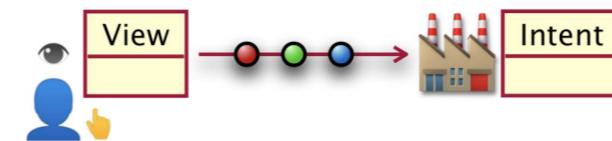


```
class MainActivity : ViewEventObservable<MainViewEvent> {  
    private val disposables = CompositeDisposable()  
  
    override fun onResume() {  
        super.onResume()  
        disposables += viewEvents().subscribe(?)  
    }  
  
    override fun onPause() {  
        super.onPause()  
        disposables.clear()  
    }  
  
    override fun viewEvents(): Observable<MainViewEvent> {  
        return Observable.merge(  
            heartButton.clicks().map { LoveItClick },  
            thumbButton.clicks().map { ThumbsUpClick }  
        )  
    }  
}
```

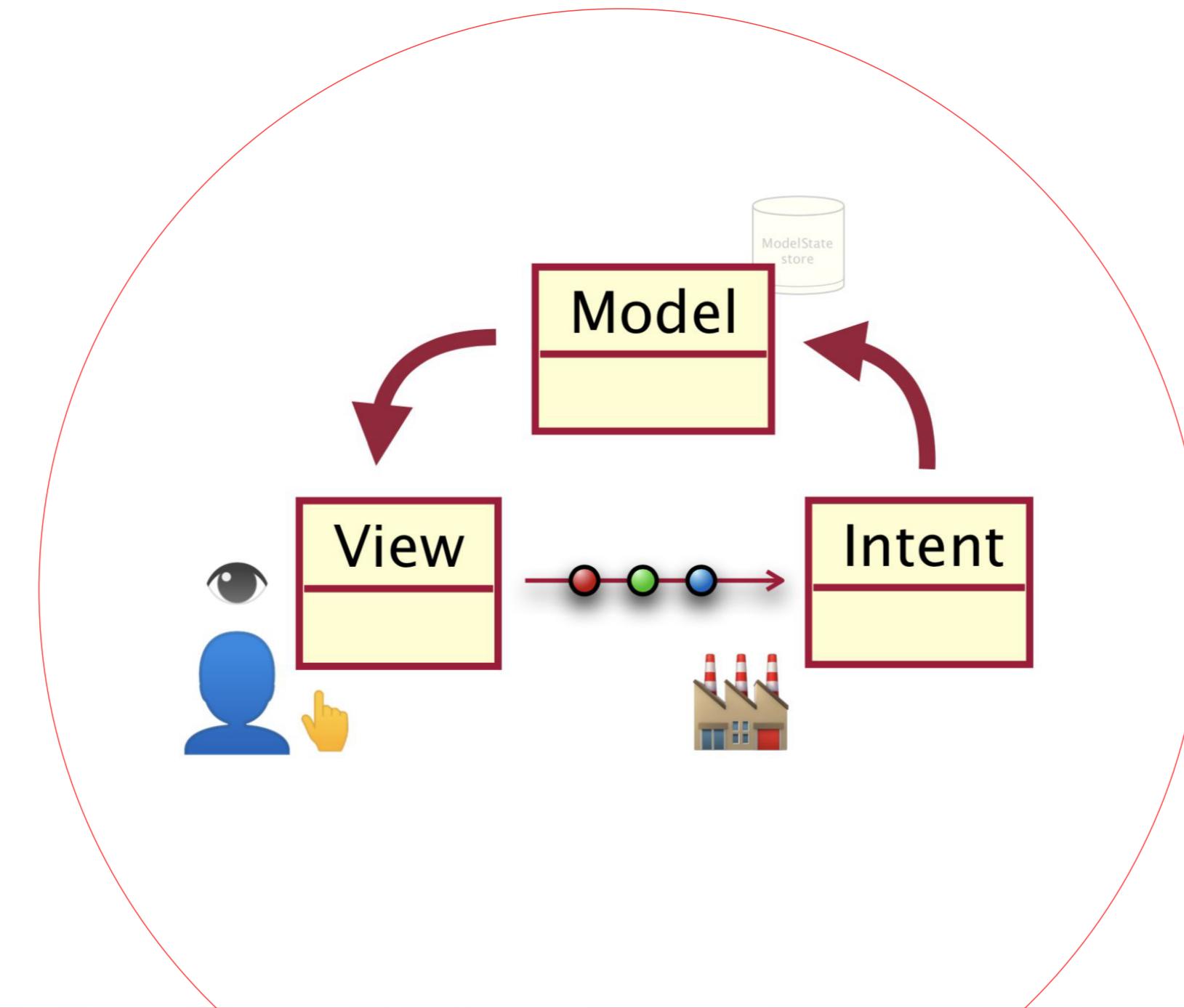


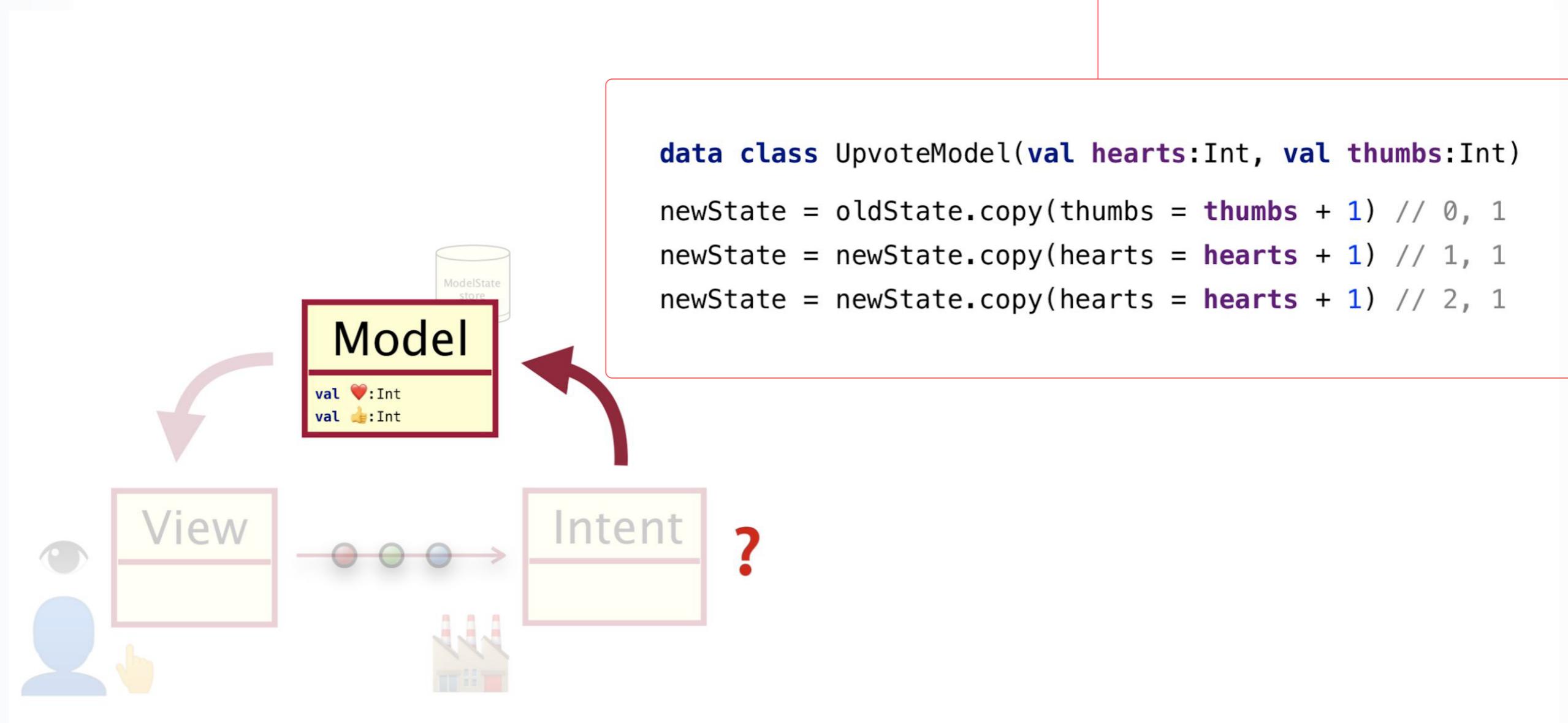


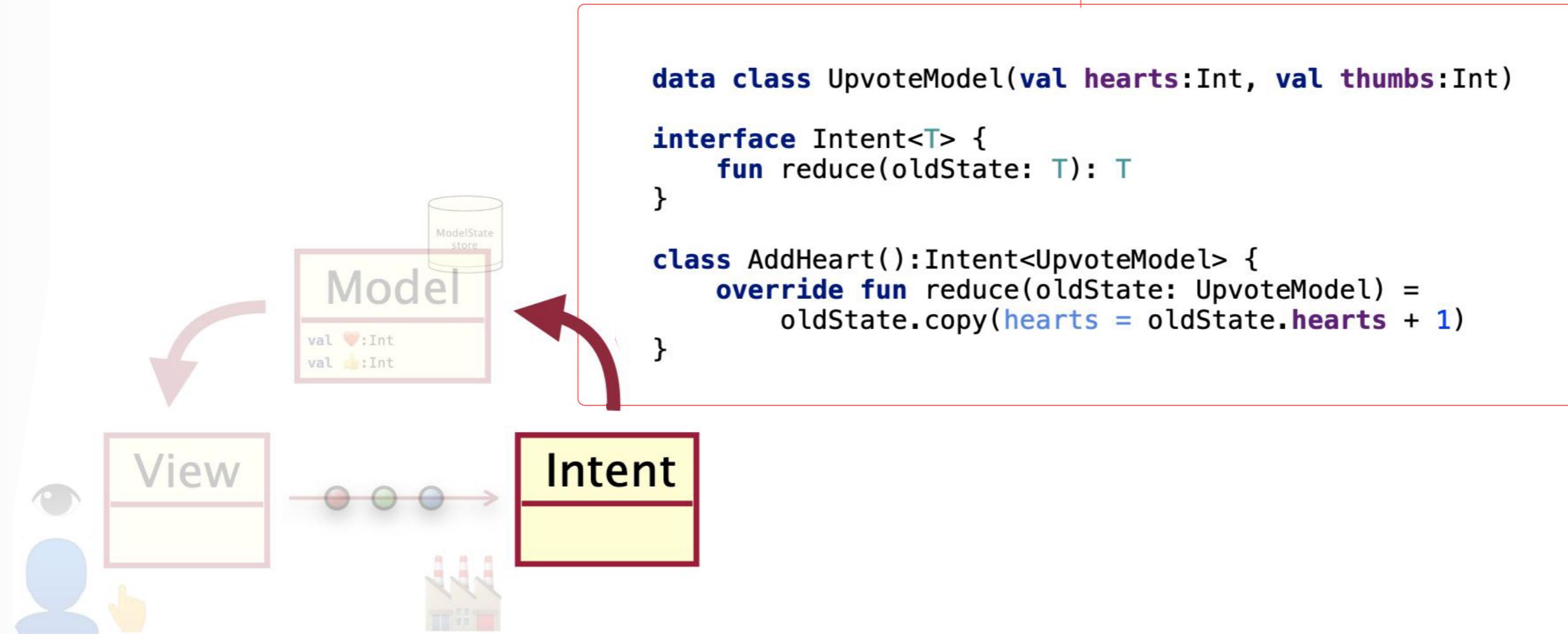
```
class MainActivity : ViewEventObservable<MainViewEvent> {  
    private val disposables = CompositeDisposable()  
  
    override fun onResume() {  
        super.onResume()  
        disposables += viewEvents().subscribe(  
            MainViewIntentFactory::process  
        )  
    }  
  
    override fun onPause() {  
        super.onPause()  
        disposables.clear()  
    }  
  
    override fun viewEvents(): Observable<MainViewEvent> {  
        return Observable.merge(  
            heartButton.clicks().map { LoveItClick },  
            thumbButton.clicks().map { ThumbsUpClick }  
        )  
    }  
}
```



# MVI ARCHITECTURE







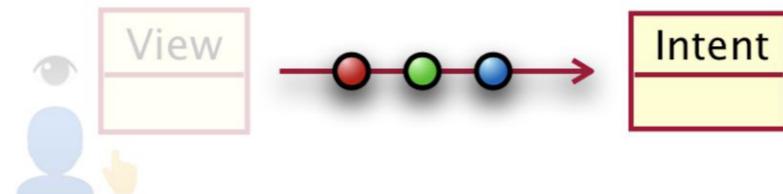


```
interface IntentFactory<E> {
    fun process(viewEvent:E)
}

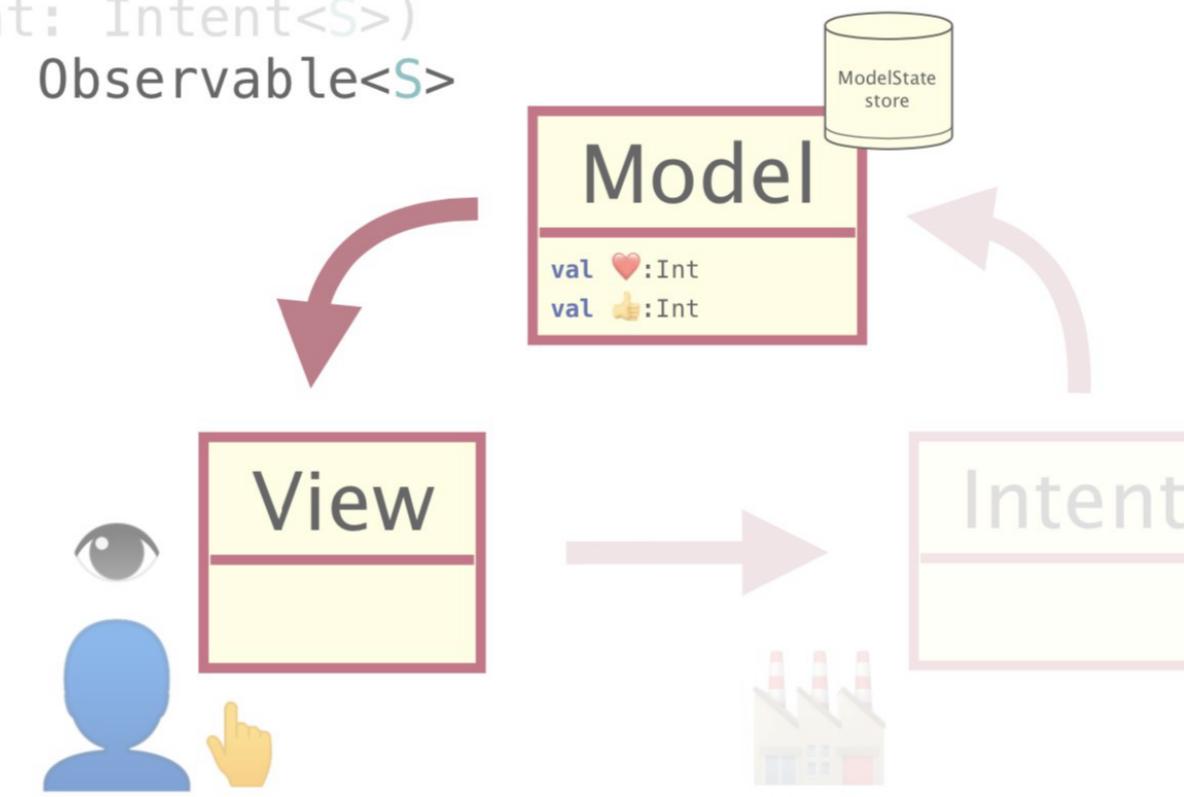
object MainViewIntentFactory : IntentFactory<MainViewEvent> {

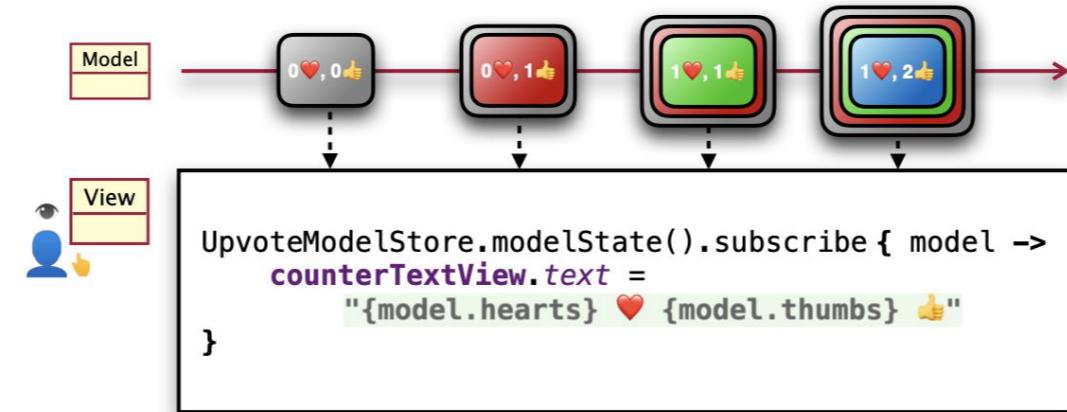
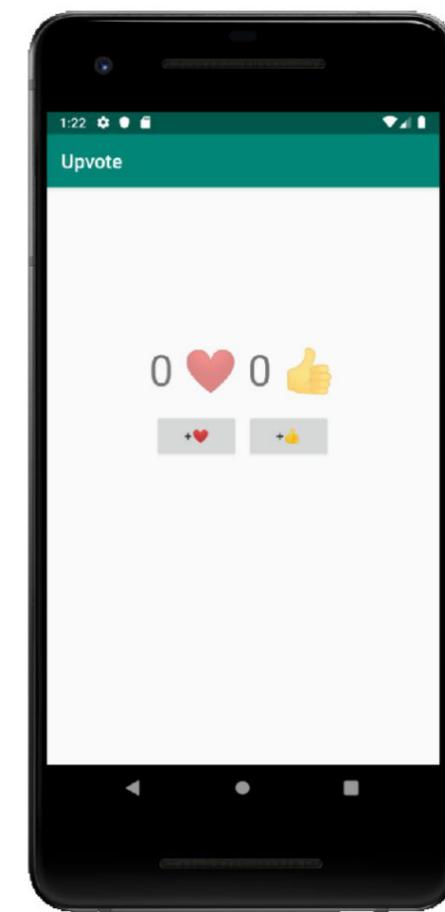
    override fun process(viewEvent: MainViewEvent) {
        UpvoteModelStore.process(toIntent(viewEvent))
    }

    private fun toIntent(viewEvent: MainViewEvent):Intent<UpvoteModel> {
        return when (viewEvent) {
            MainViewEvent.LoveItClick -> AddHeart()
            MainViewEvent.ThumbsUpClick -> AddThumb()
        }
    }
}
```



```
object UpvoteModelStore  
  
interface ModelStore<S> {  
    fun process(intent: Intent<S>)  
    fun ModelState(): Observable<S>  
}
```



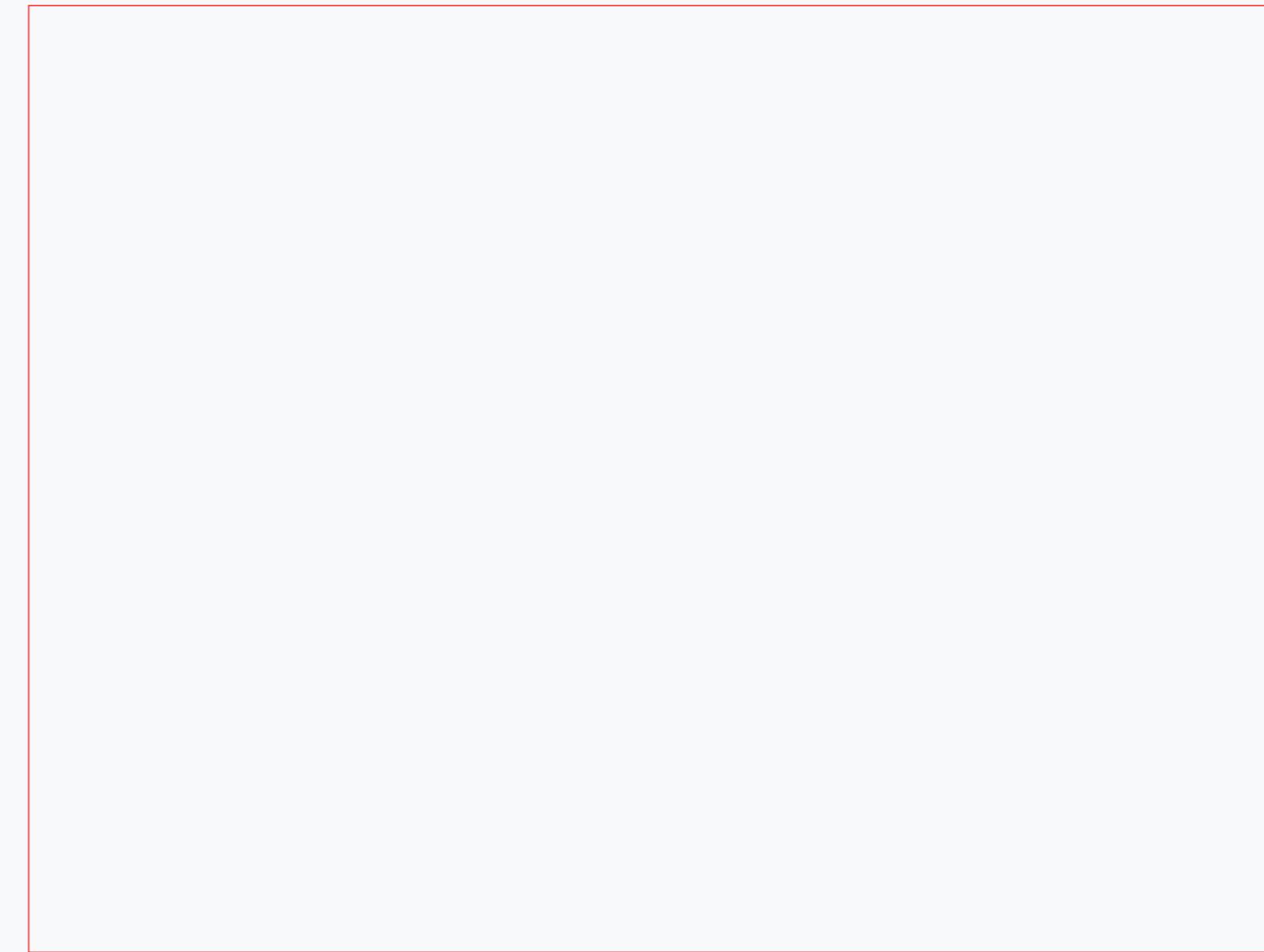


**LIVE DEMO**

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# **QUESTIONS & ANSWERS**

**THE ANSWER IS ALWAYS**



**"IT DEPENDS"**



**THANK YOU**

# Rappi

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