Introduction to iOS Development

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Wifi: **Guest_BYOD**

iOS Developers and App Store

- 20 million registered iOS Developers
- Developers have made over $100 billion from App Store
- App Store introduced when iOS 2 was launched (year 2008)
- App Store had **only** 500 apps at time of launch
- Over 500 million users visit the App Store every day

About Me

- iOS Developer at Capital One
- Started professional iOS work in 2016
- Personal hobbies include:
  - Reading
  - Baseball
  - Tennis
- Favorite TV shows and movies:
  - The Marvel Cinematic Universe
  - The Office (US)
  - Cobra Kai

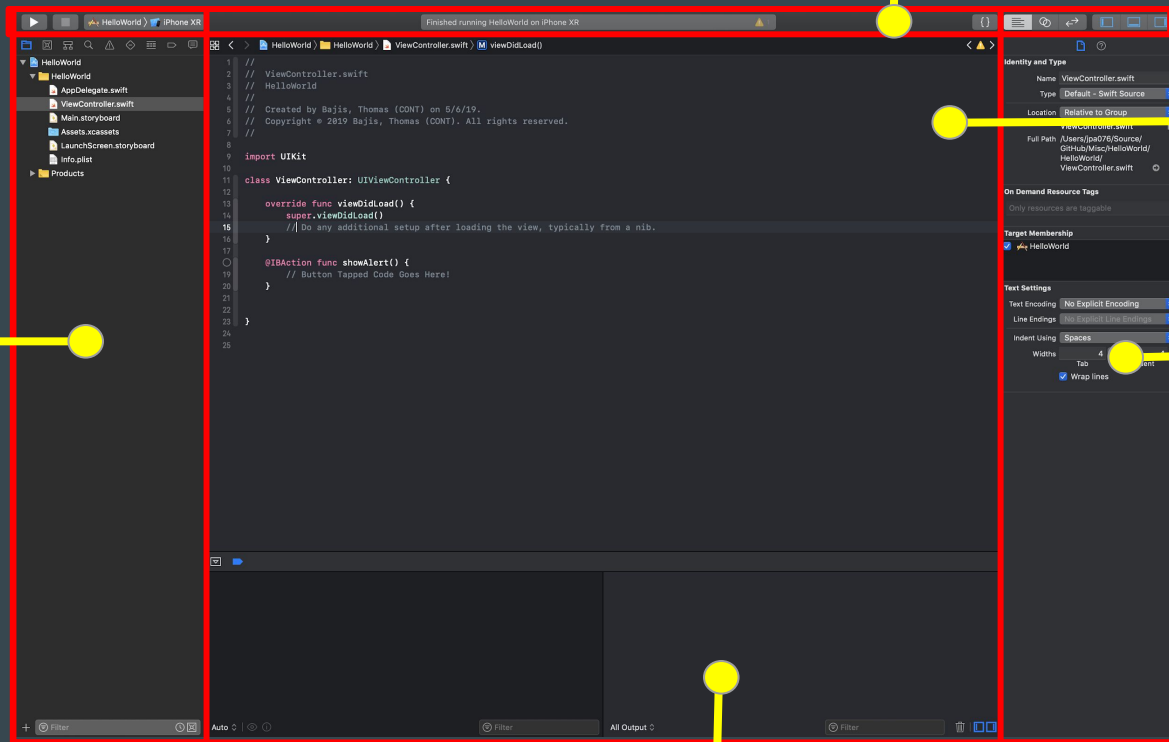# Exploring Xcode: The Interface
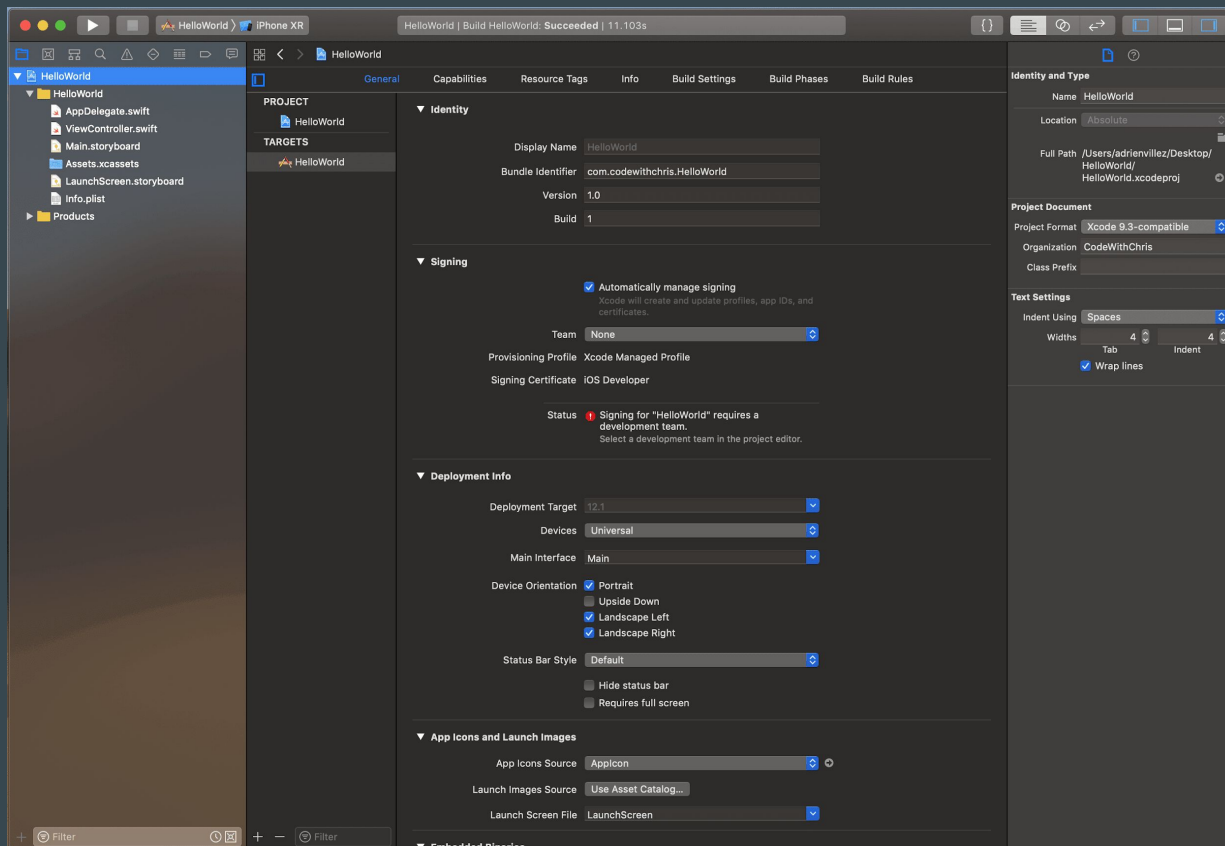
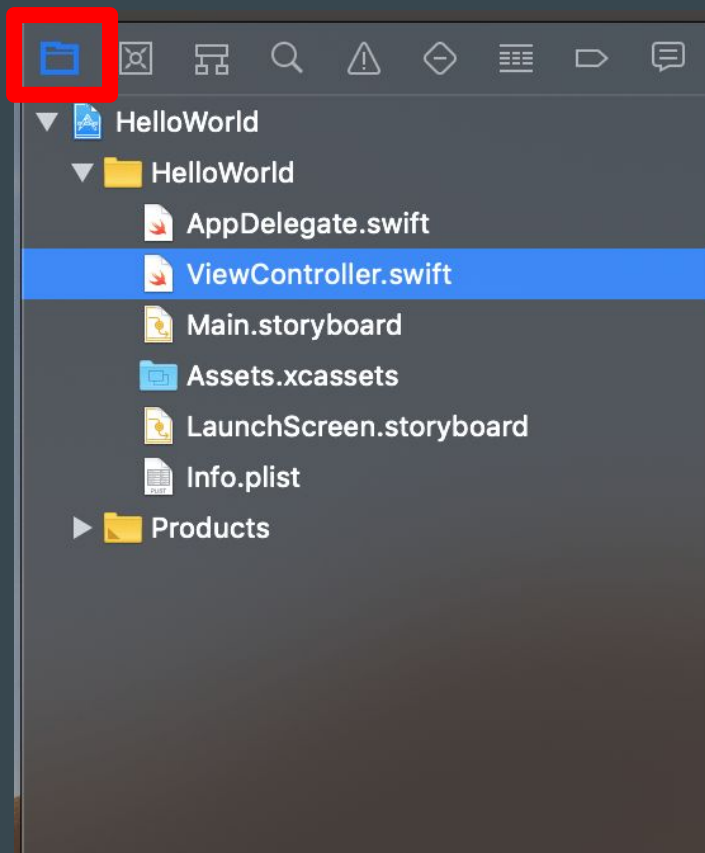# Exploring Xcode: Interface Terminology

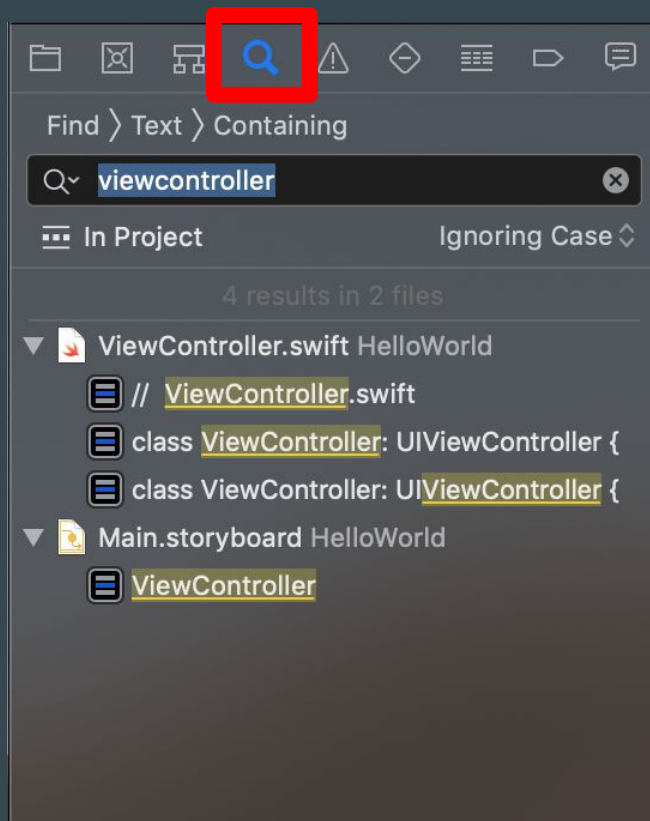Toolbar

Editor
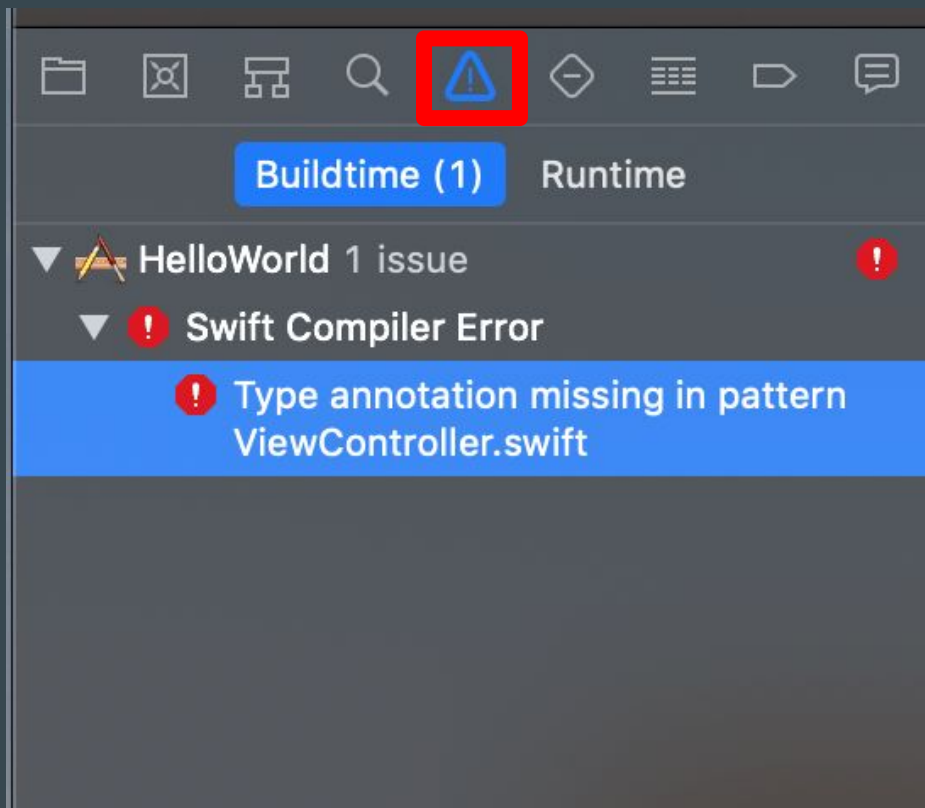
Project Navigator

Utilities Inspector
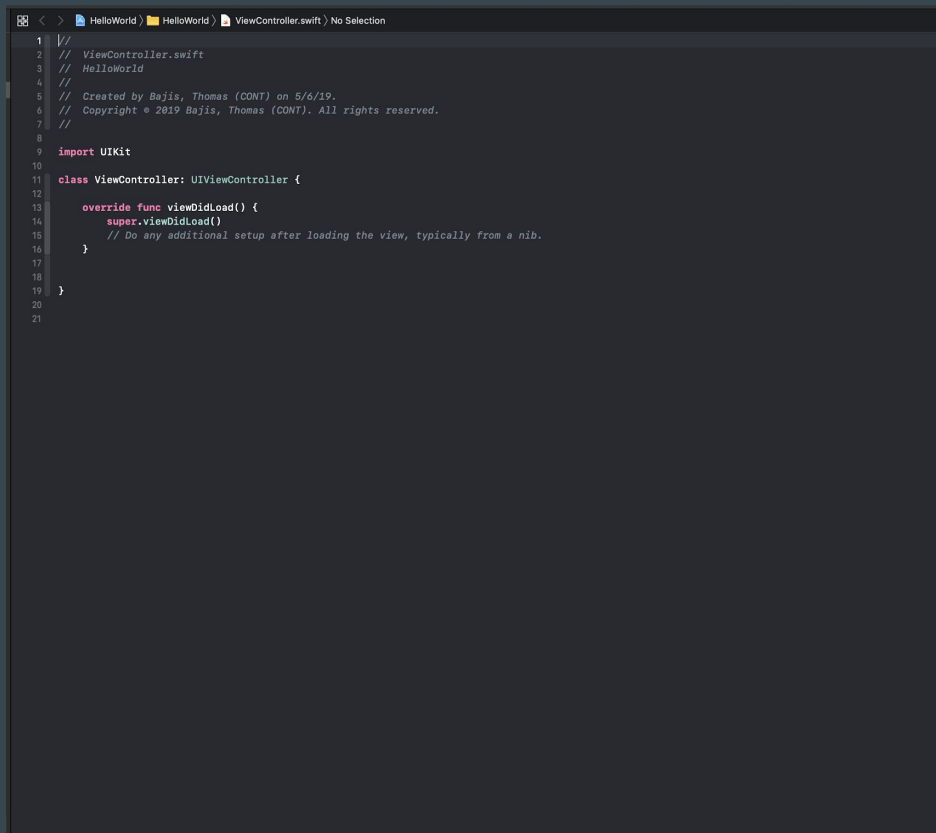
Debug Console

Exploring Xcode: The Project Navigator

Exploring Xcode: Search Navigator

Exploring Xcode: Issue Navigator

Anatomy of Xcode: The Editor
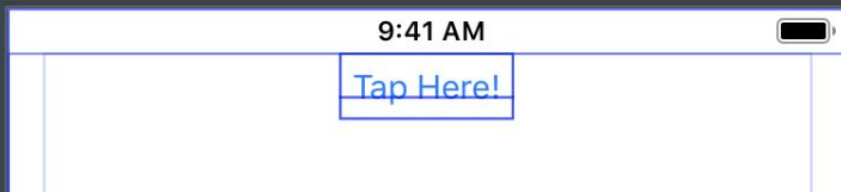
Demo Time: Let's Build An App!
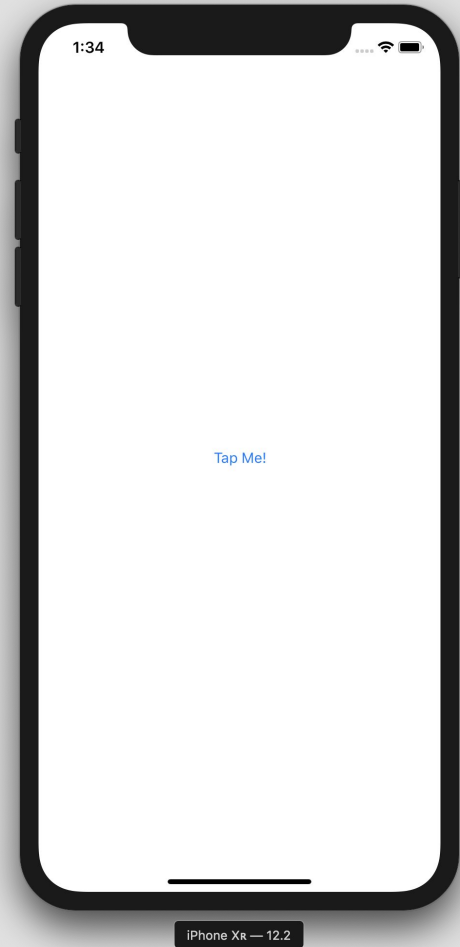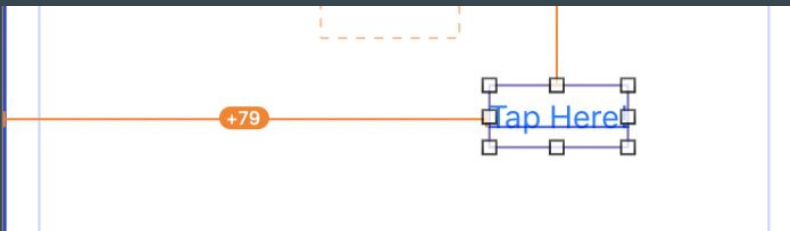
Auto Layout & Constraints

- **Auto Layout** is a system used for creating a user interface
- It uses a "description" of an element's position
- Positions can be described using **constraints**
- Why use AutoLayout?
  - Dynamically adapt to device orientation
  - Localization (Language preferences)
  - Multiple screen sizes (iPhone 4S vs. iPad Pro)

Auto Layout Visual Indicators

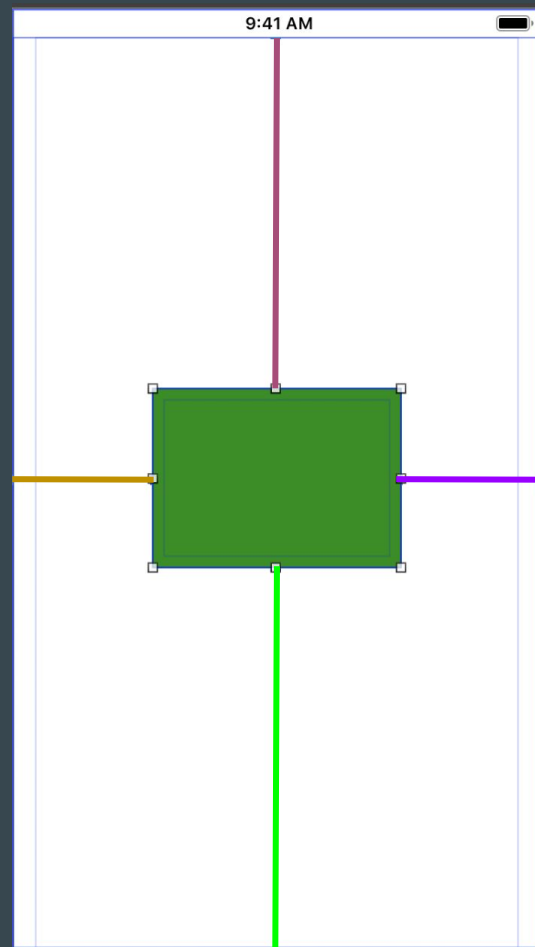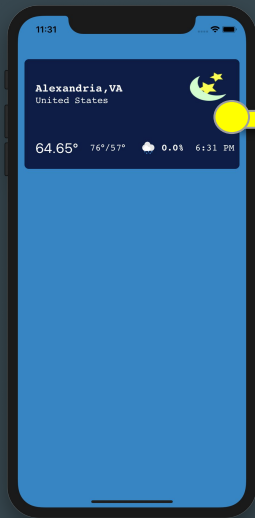| Guides	 9:41 AM Tap Here!
Orange/Red Lines	+79 Tap Here
Warnings & Errors	▼ **Missing Constraints** ⊙ □ Line Need constraints for: X position, width ▼ **Missing Constraints** ⊙ □ Line Need constraints for: X position, width

Auto Layout Terminology

- Top Space
- Bottom Space
- Leading Space
- Trailing Space

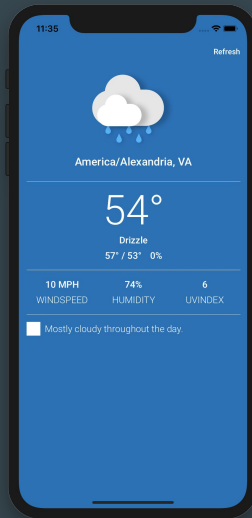# The Job Of A View Controller

- Manages a single screen in your app

Weather List
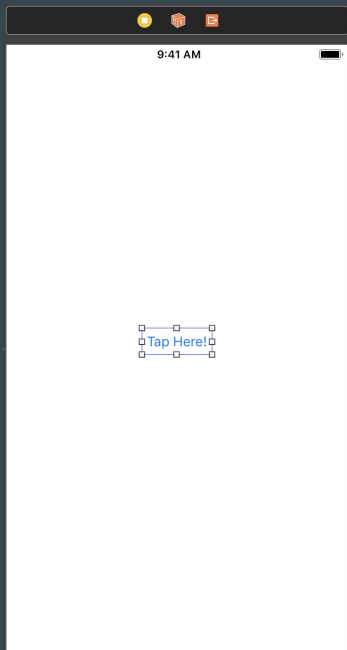
Weather Detail

`WeatherListViewController`

`WeatherDetailViewController`

Two Parts of a View Controller

Main.storyboard
(Design)

ViewController.swift
(Code)

```
@IBAction func showAlert() {
    // Button Tapped Code Goes Here!
}
```

Tap Here!

9:41 AM

A Little Git Help

Clone the project (set up)	`git clone <repository name>`
Preparation for moving to next step	`git reset --hard`
Proceeding to next step	`git checkout <branch name>`
Committing!	`git commit -m <message here>`

Let's Get Started!

https://tinyurl.com/c1weather
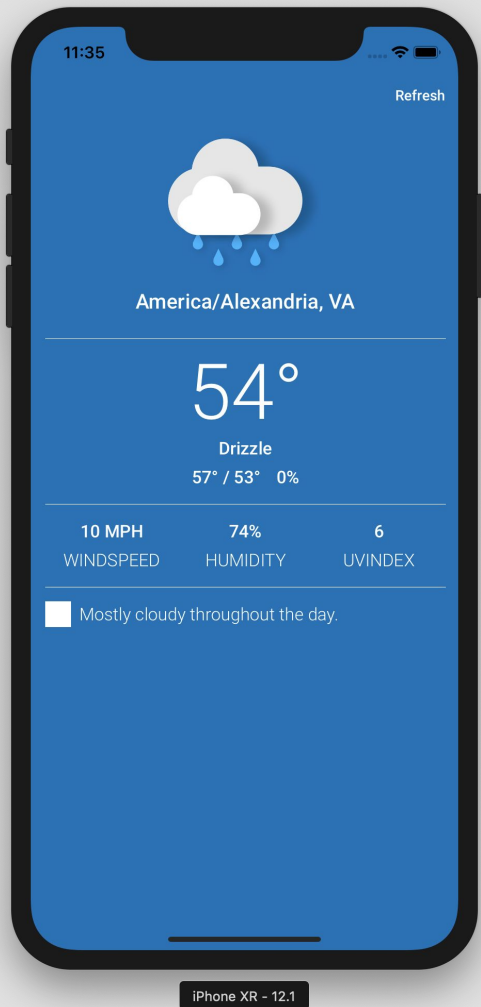
Learn More!

August 14th & 15th, 2019

androidsummit.org

August 9, 2019

iosdevcampdc.com

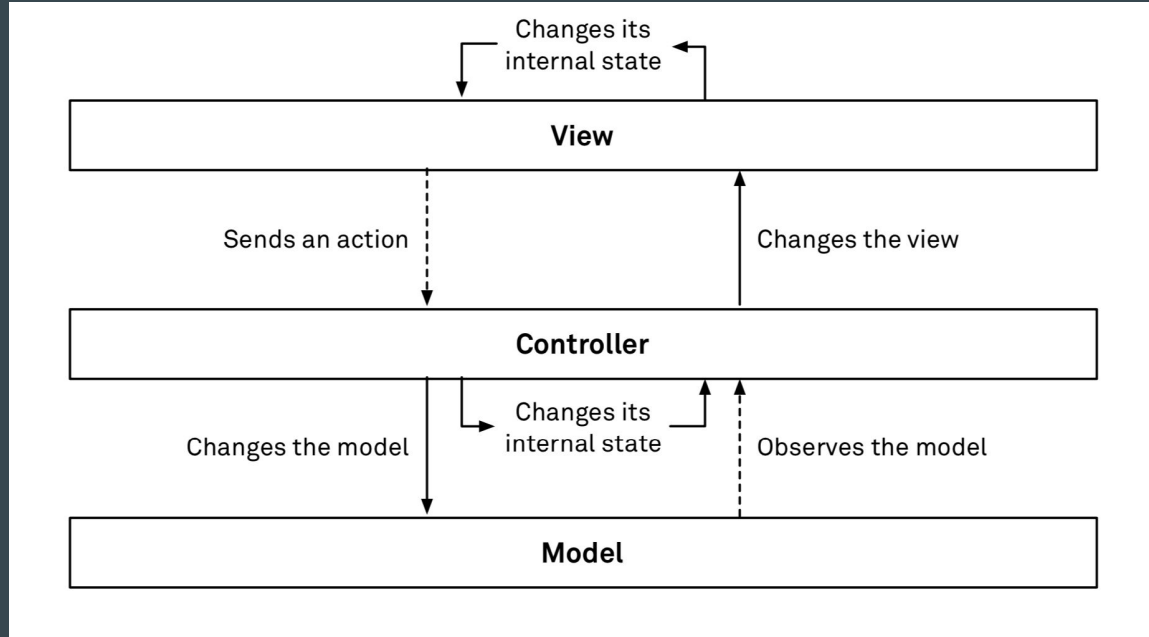Contact neel.mistry@capitalone.com for more details

App Architecture: What is it?

- A "strategy" for designing app functionality
- Sometimes referred to as a "Design Pattern"

App Architecture: Model-View-Controller (MVC)

App Architecture: Model-View-ViewModel (MVVM)