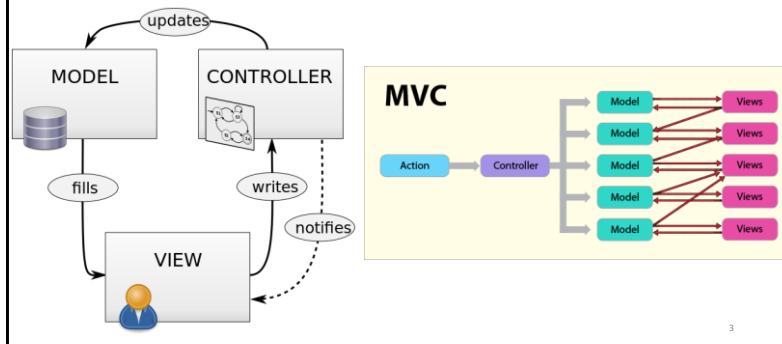# Architectural patterns

1

Architectural pattern

- General, reusable solution to a commonly occurring problem in software architecture within a given context.
  - Performance
  - High availability
- Some architectural patterns have been implemented within software frameworks
  - 3-layer/3-tier pattern: DotNetNuke
  - MVC pattern: Laravel, ASP.NET MVC
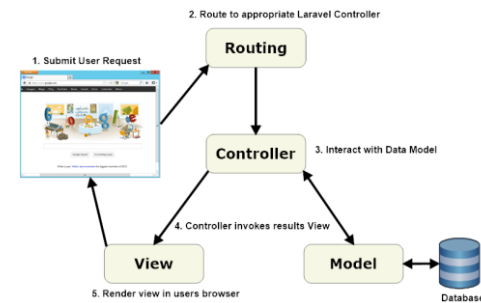 - Microservices: Spring Boot, vert.x
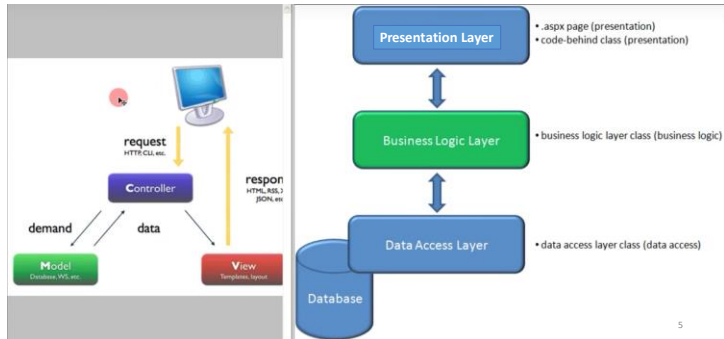
2

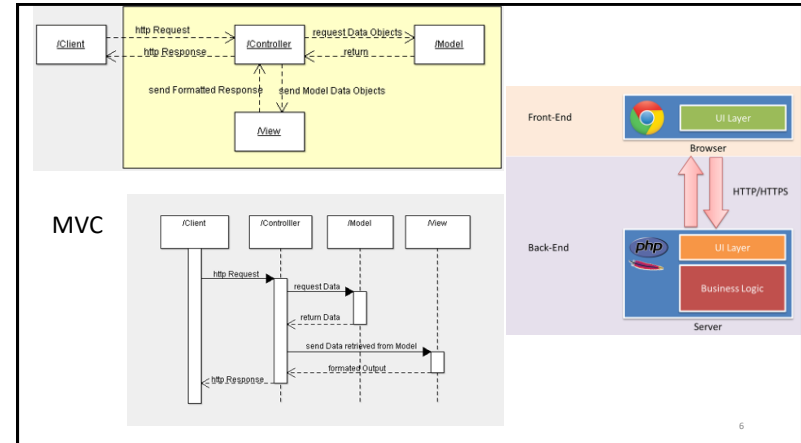## Classic MVC architecture (active) **Problems?**

3

Passive MVC architecture

4

MVC vs 3-tier Architecture
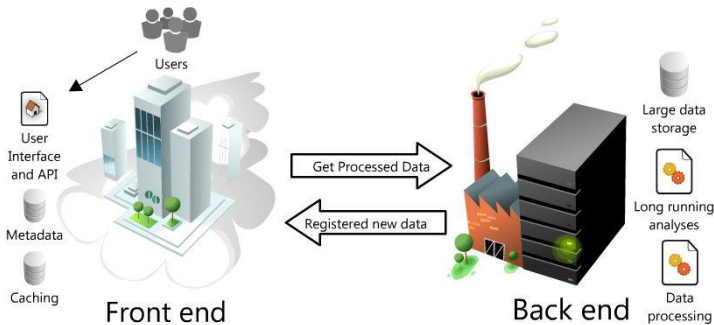

5

MVC

6

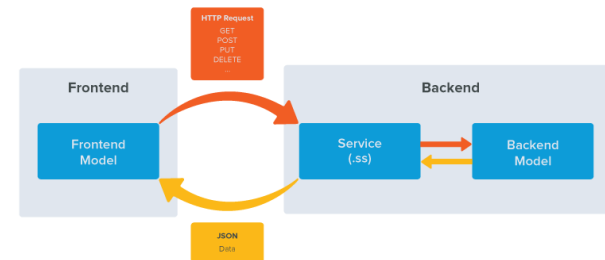## Front-end and Back-end

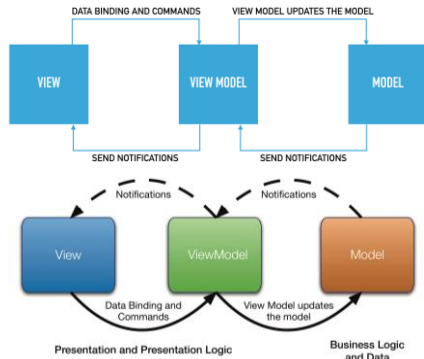Front end   Back end

7

Front end and Back end

• May have different architectural patterns
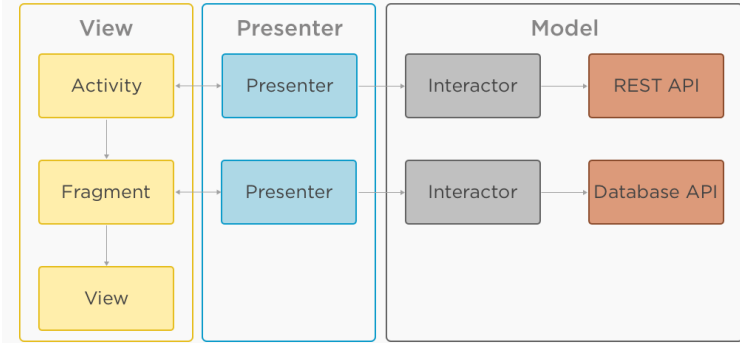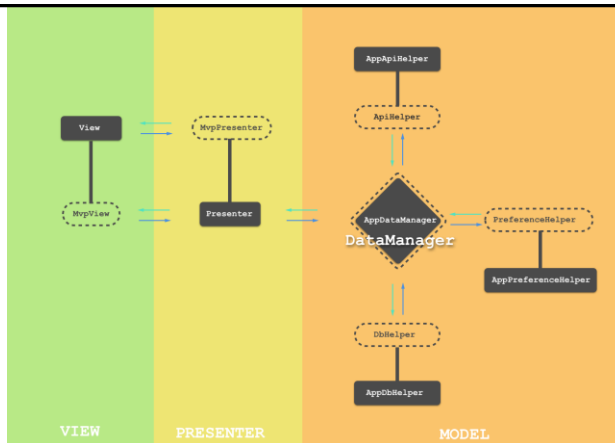

8

2

MVVM Architecture

9
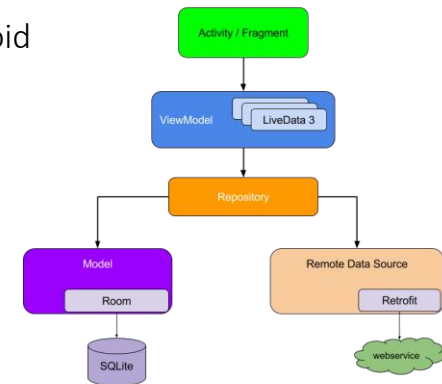

MVP architectural pattern in Android

10

MVP in Android
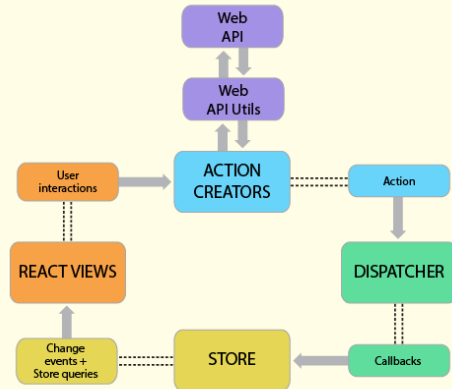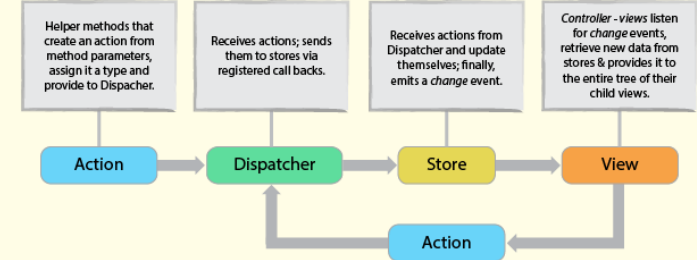
11

MVP in Android
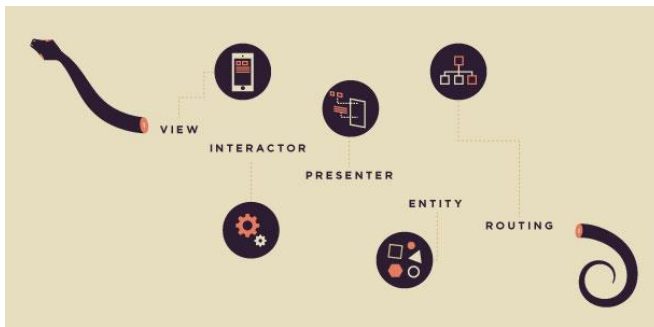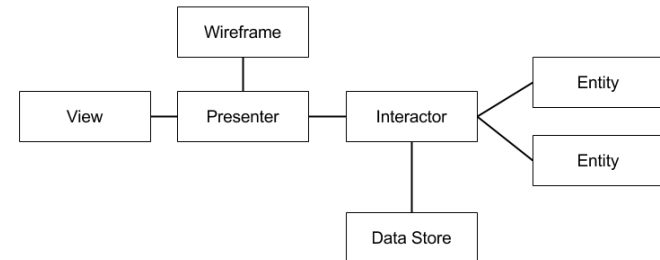
12

Flux
architecture
(React)

13

Flux architecture (React)

14

VIPER architecture (iOS)

15

VIPER architecture (iOS)

16