

Architectural patterns

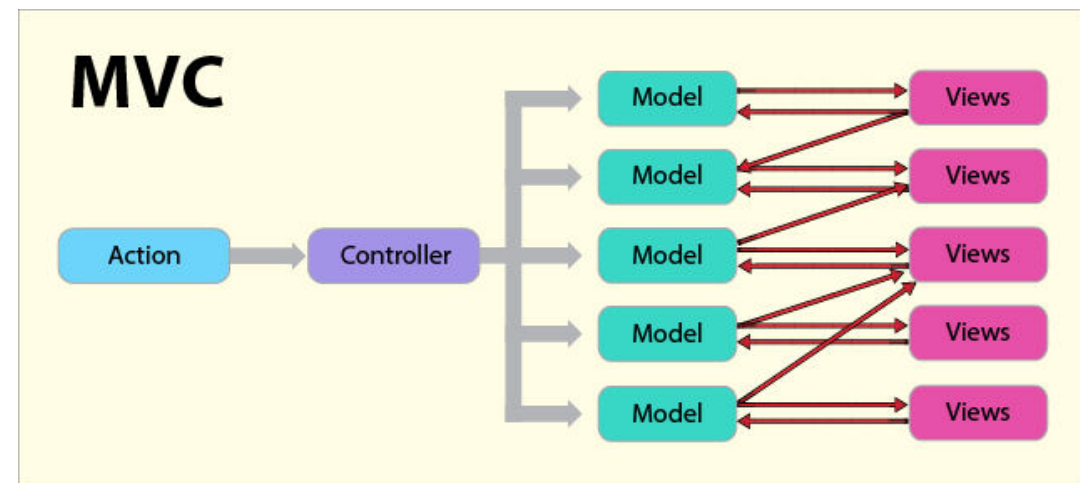
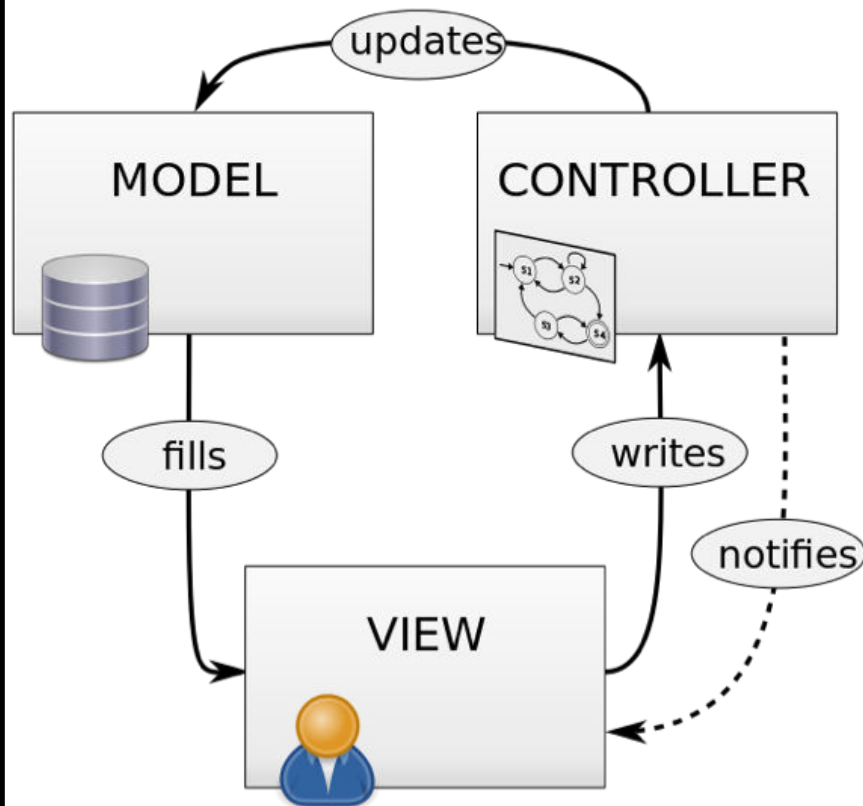
NGUYEN Thi Thu Trang

Architectural pattern

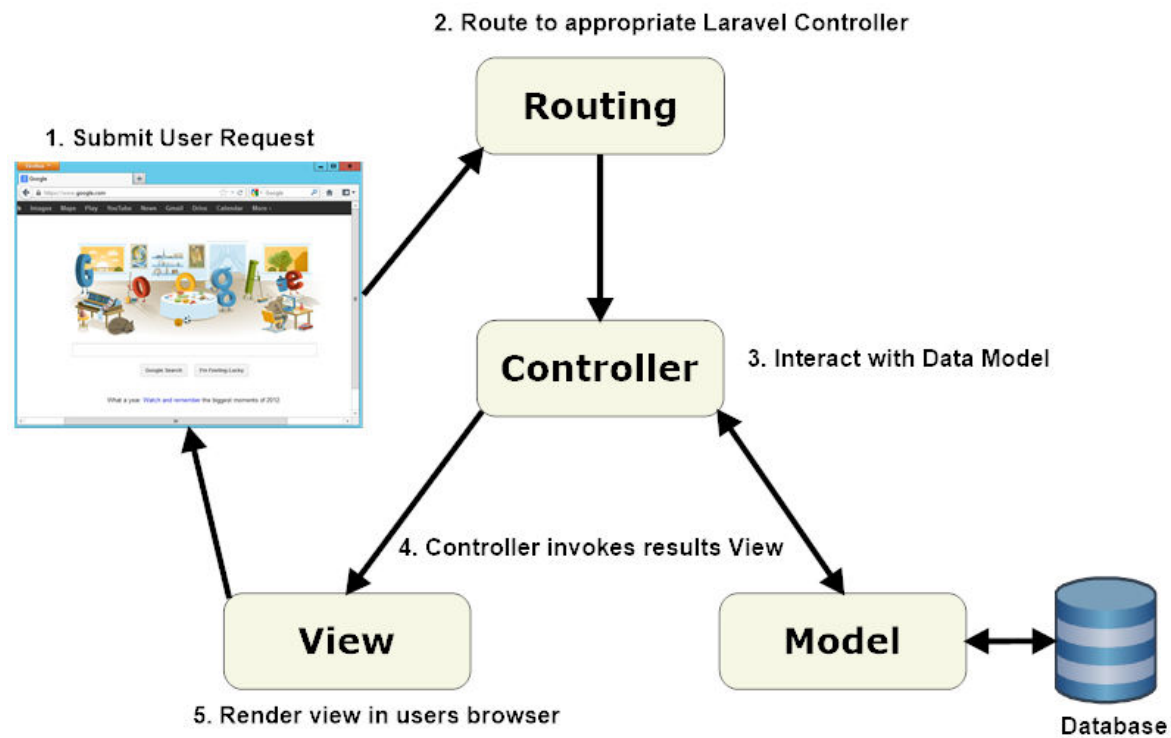
- General, reusable solution to a commonly occurring problem in software architecture within a given context.
 - Performance
 - High availability
- Some architectural patterns have been implemented within software frameworks
 - 3-layer/3-tier pattern: DotNetNuke
 - MVC pattern: Laravel, ASP.NET MVC
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

Classic MVC architecture (active)

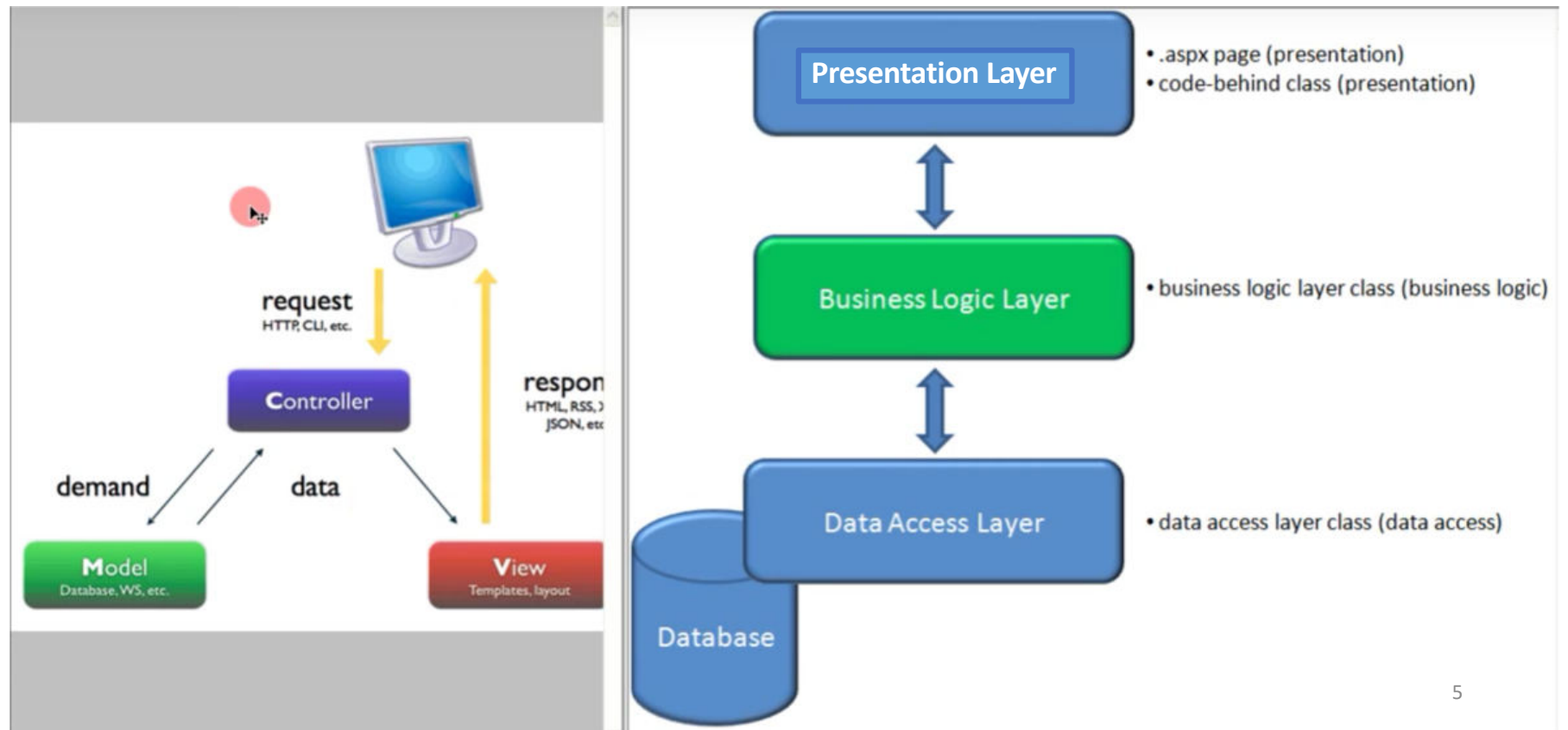
Problems?

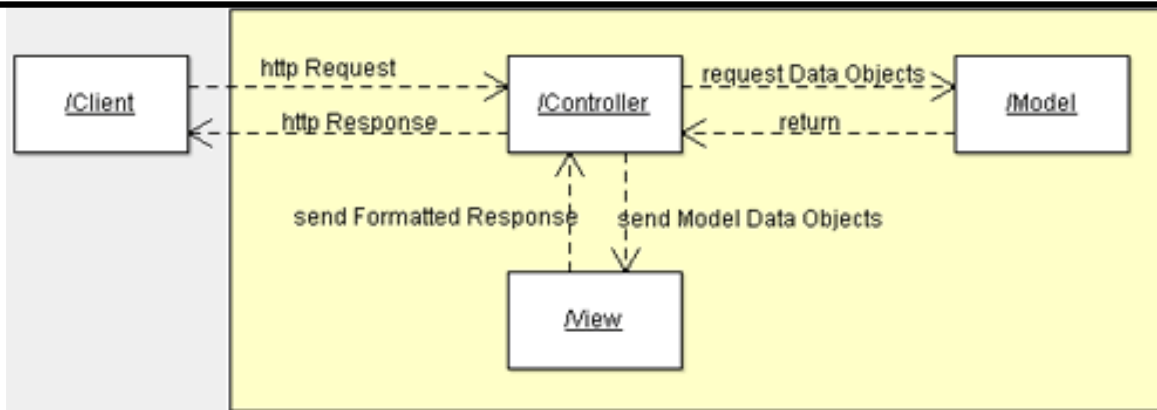


Passive MVC architecture

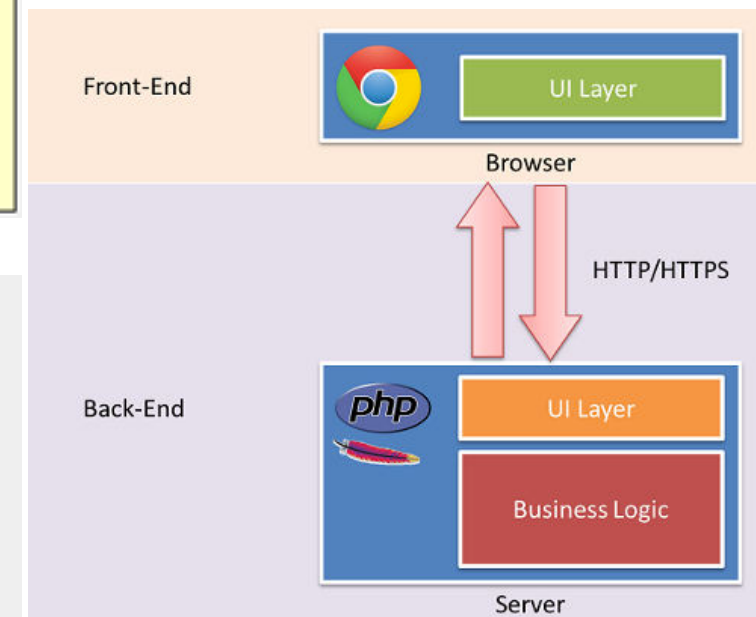
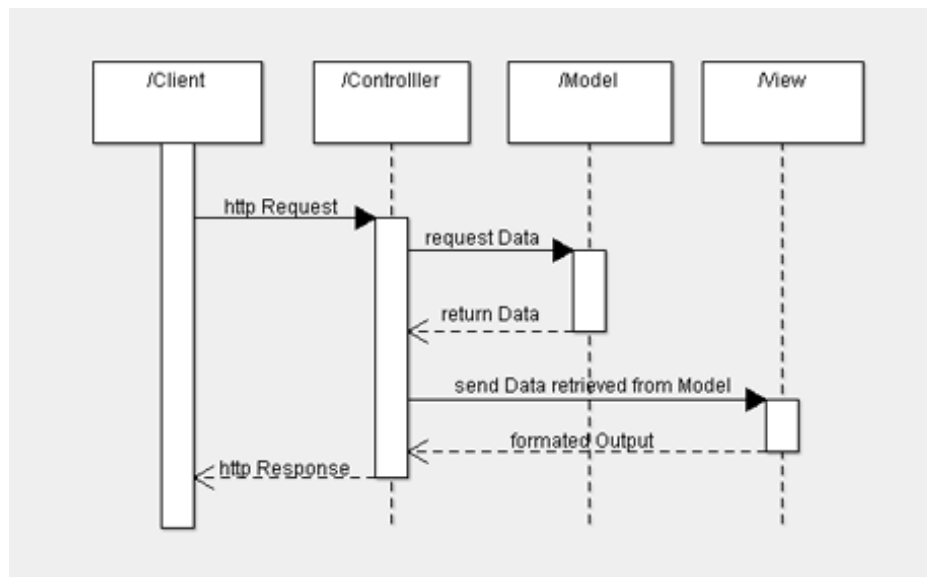


MVC vs 3-tier Architecture

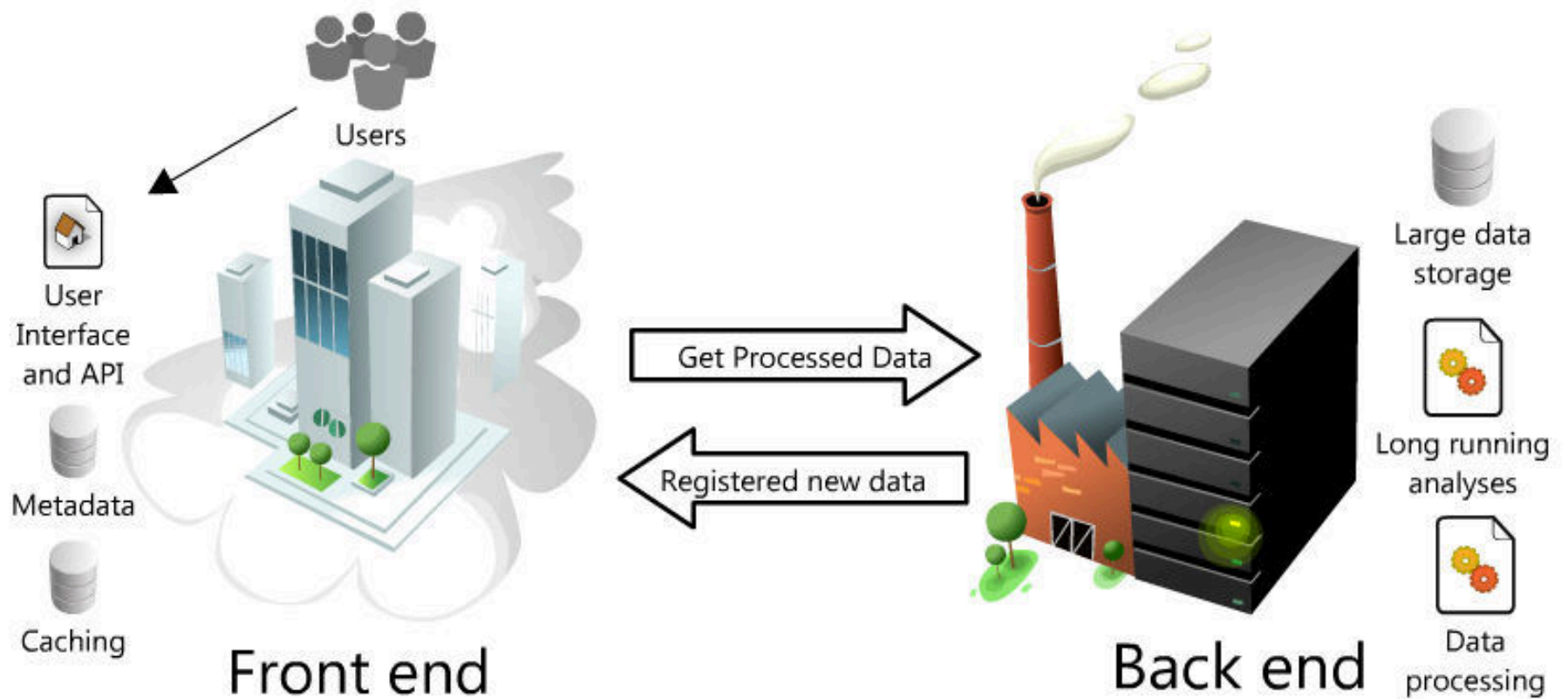




MVC

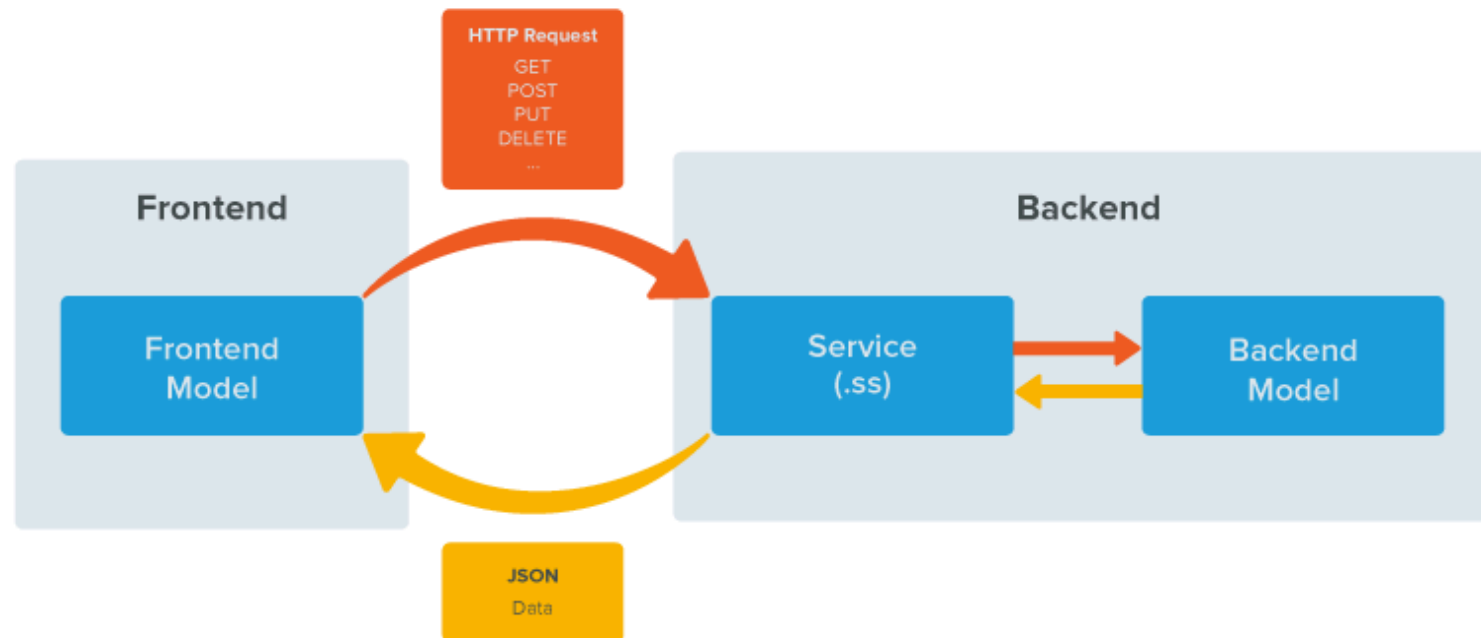


Front-end and Back-end

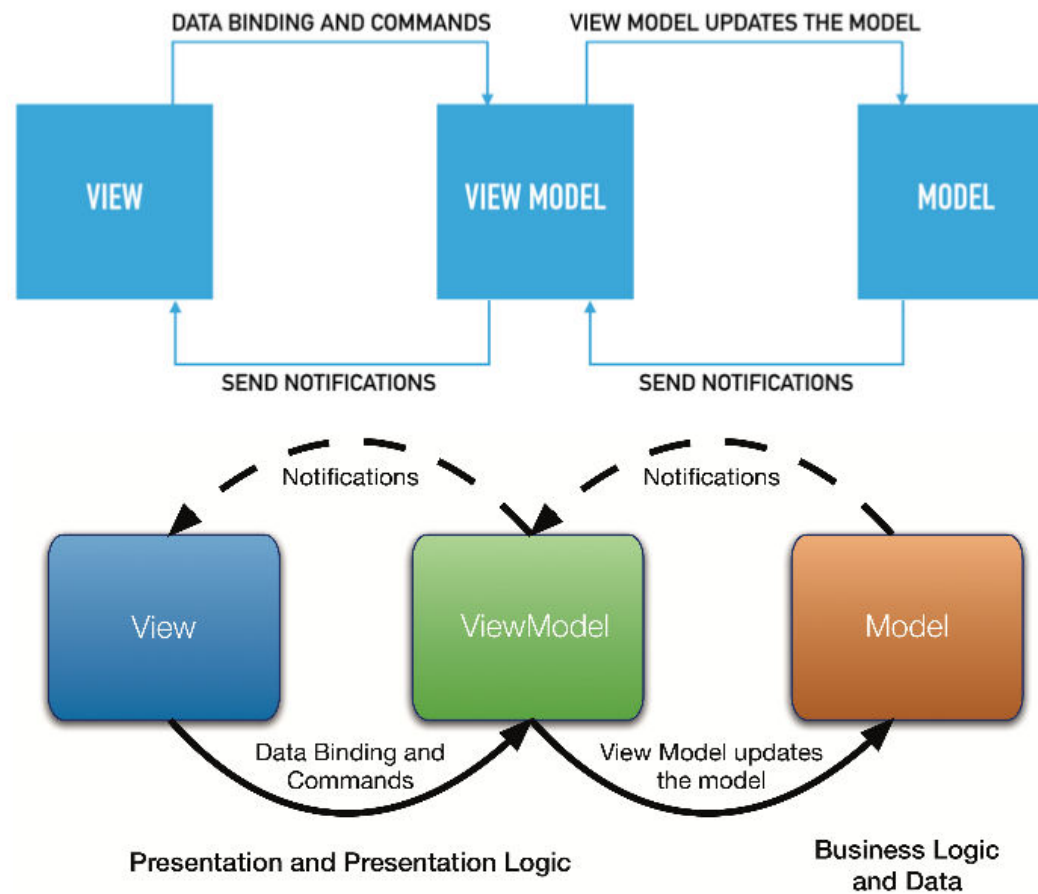


Front end and Back end

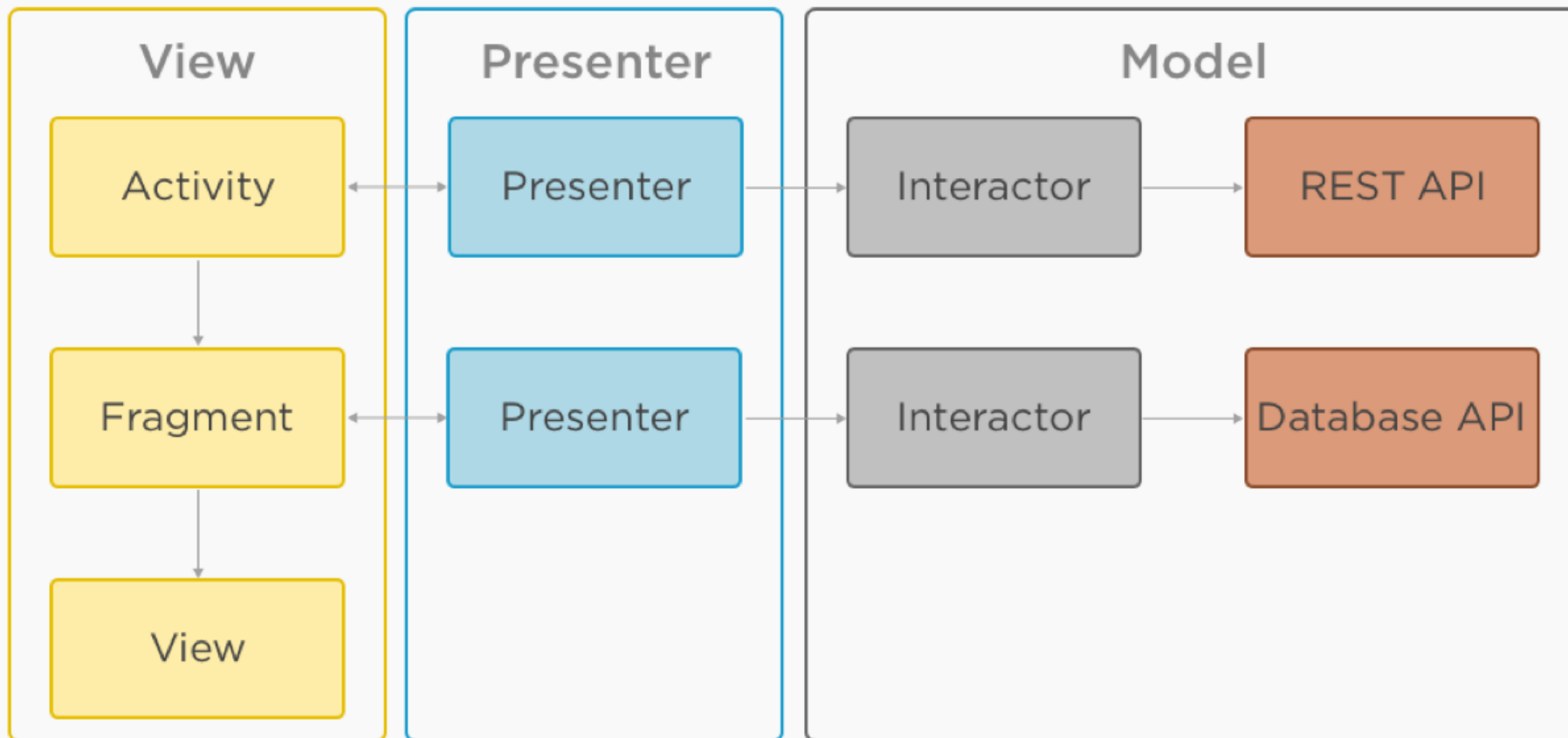
- May have different architectural patterns



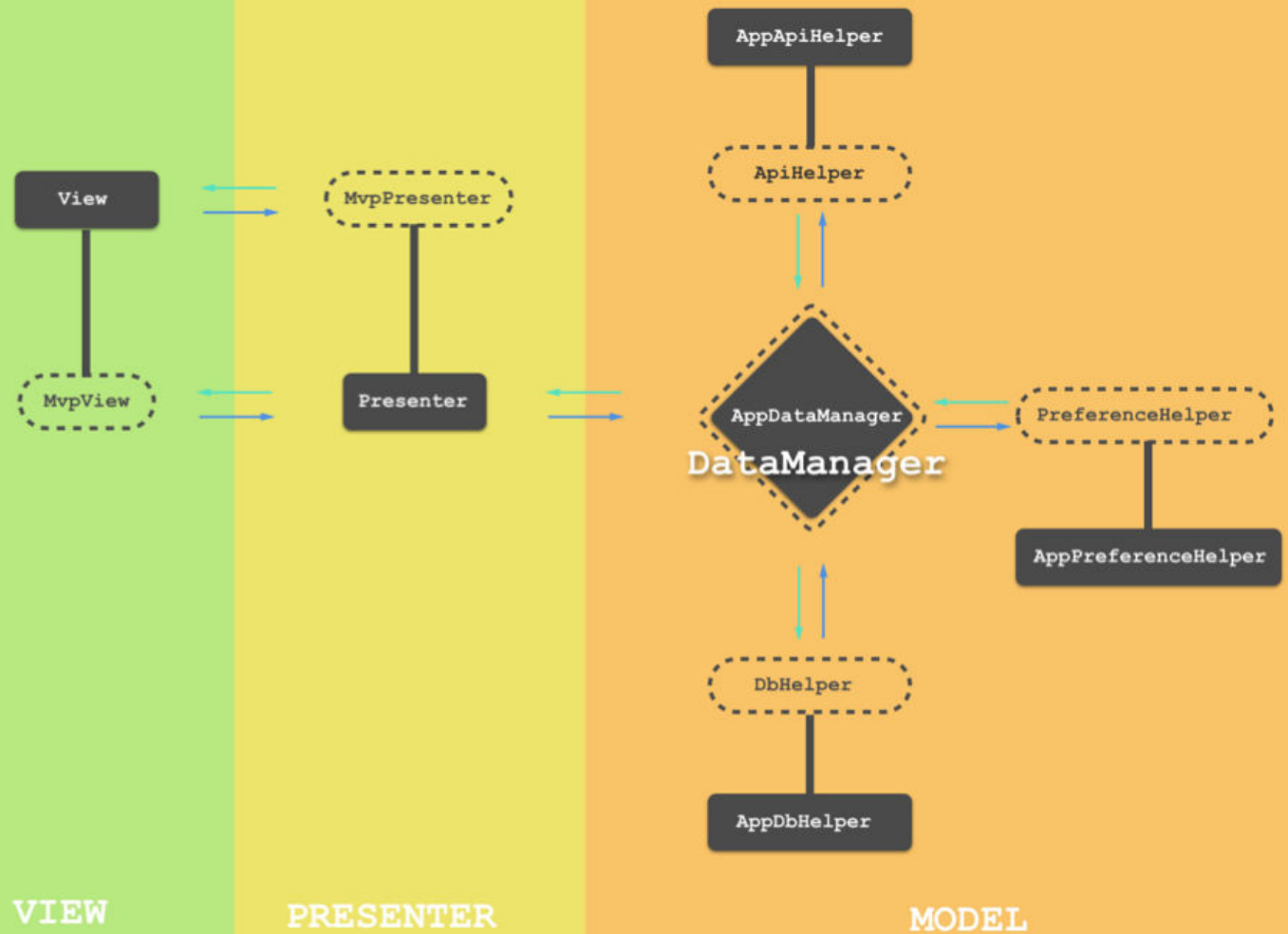
MVVM Architecture



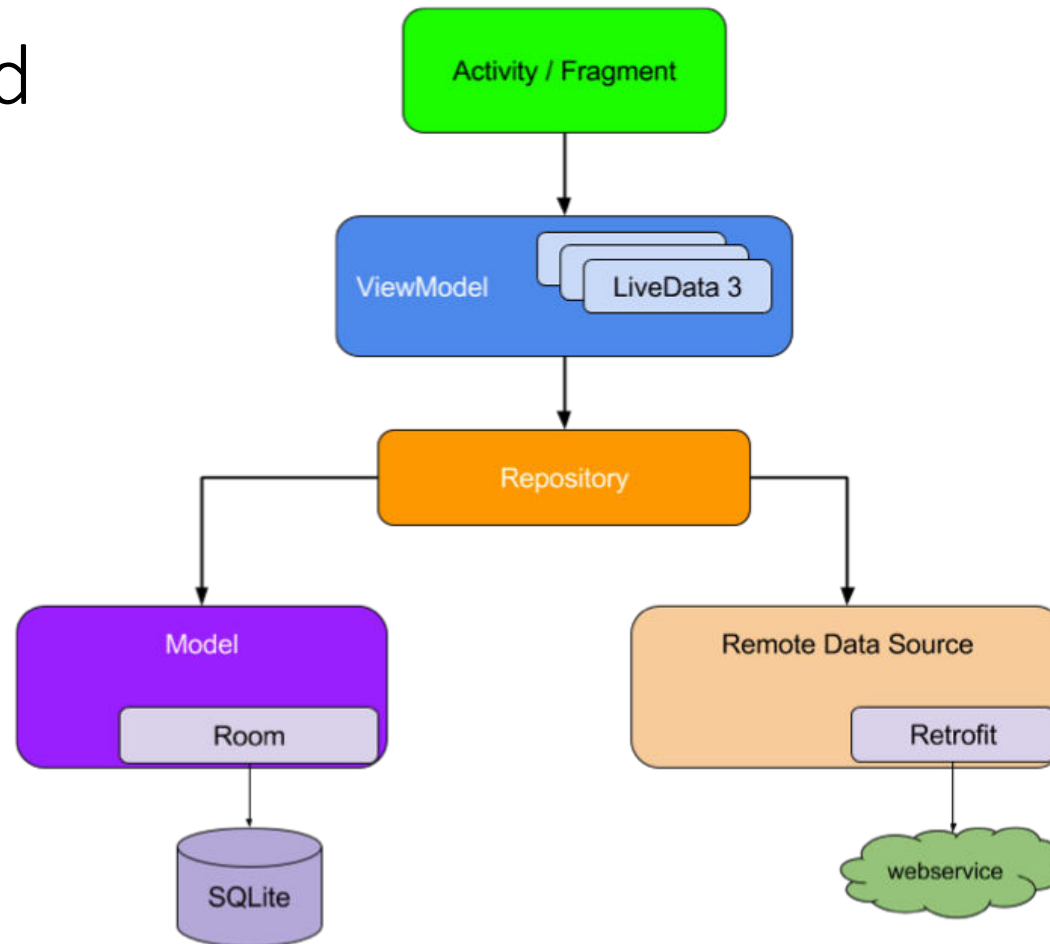
MVP architectural pattern in Android



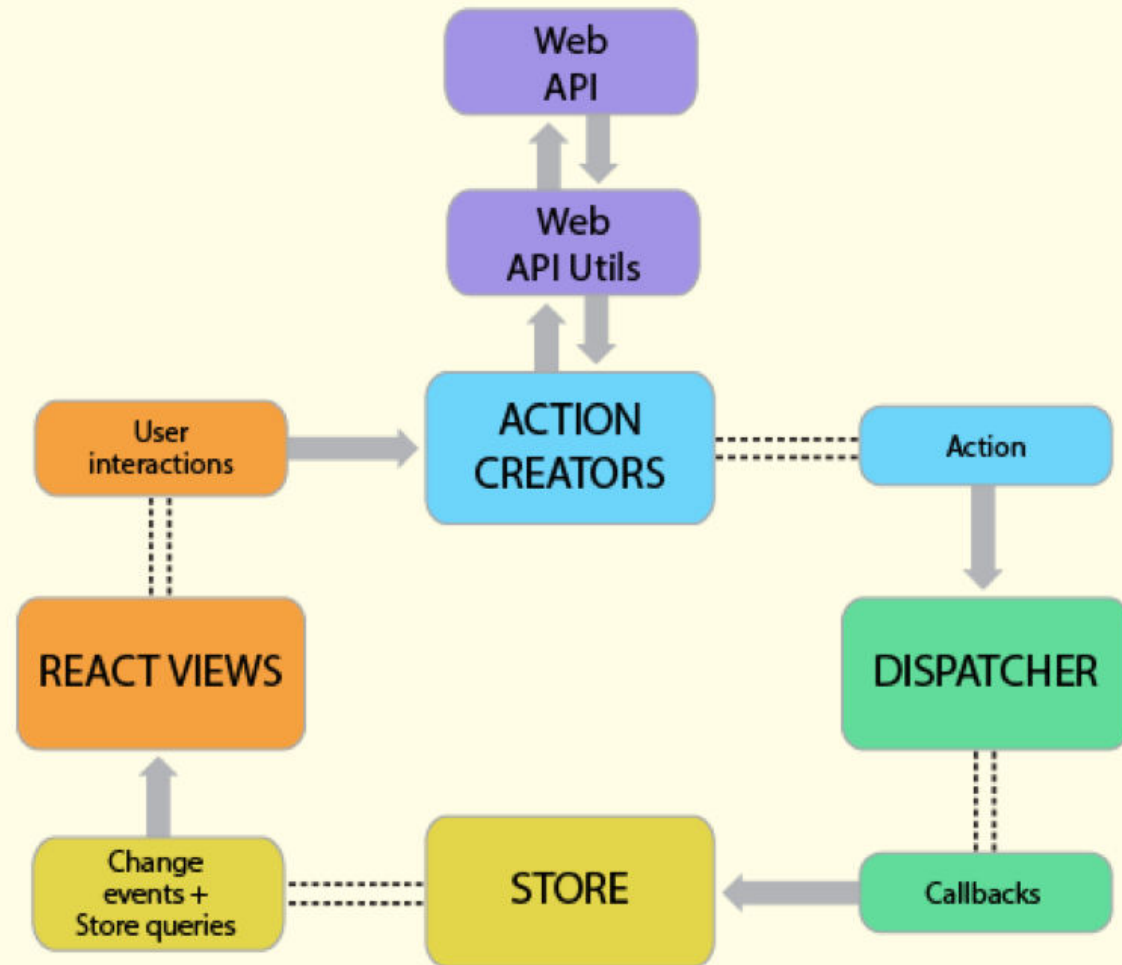
MVP in Android



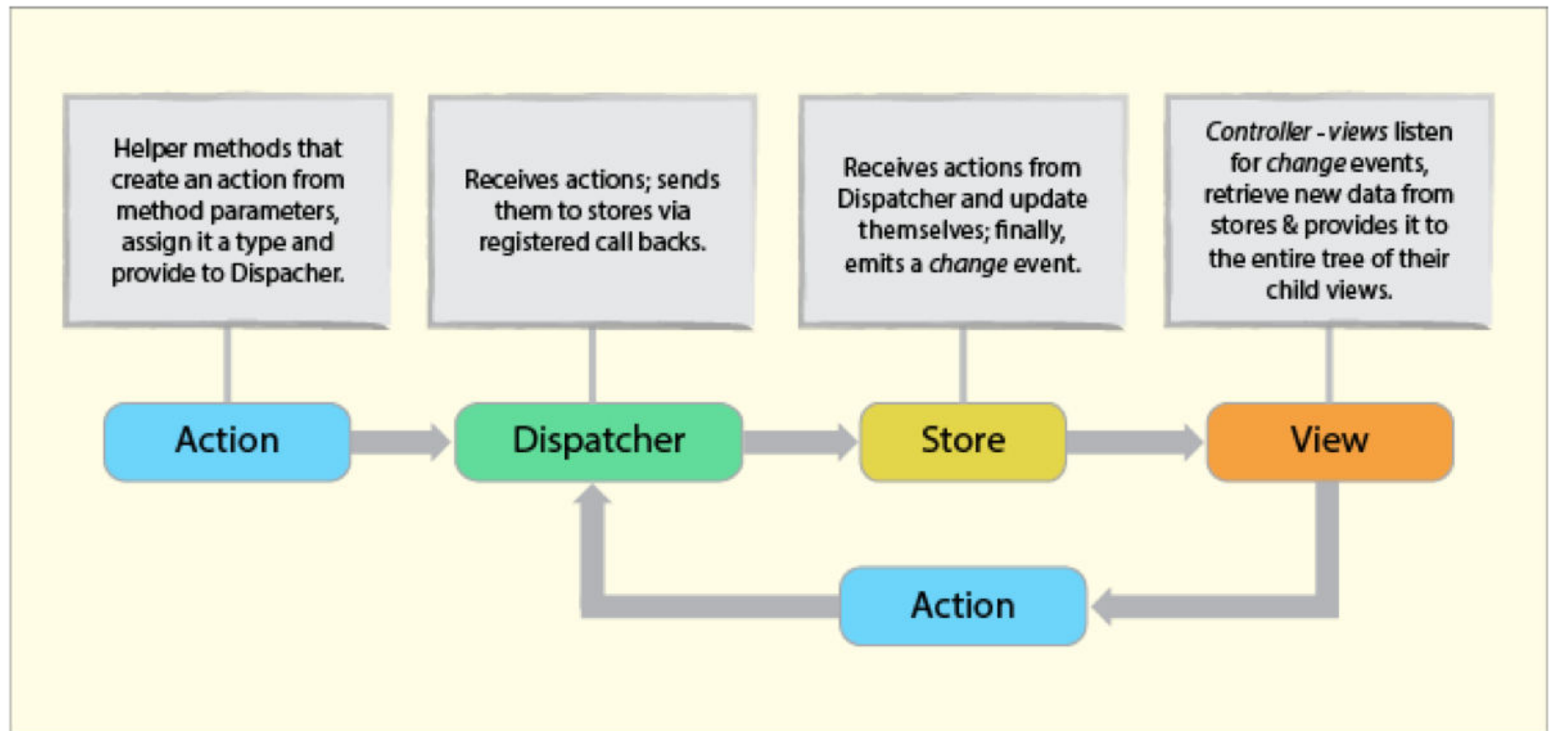
MVP in Android



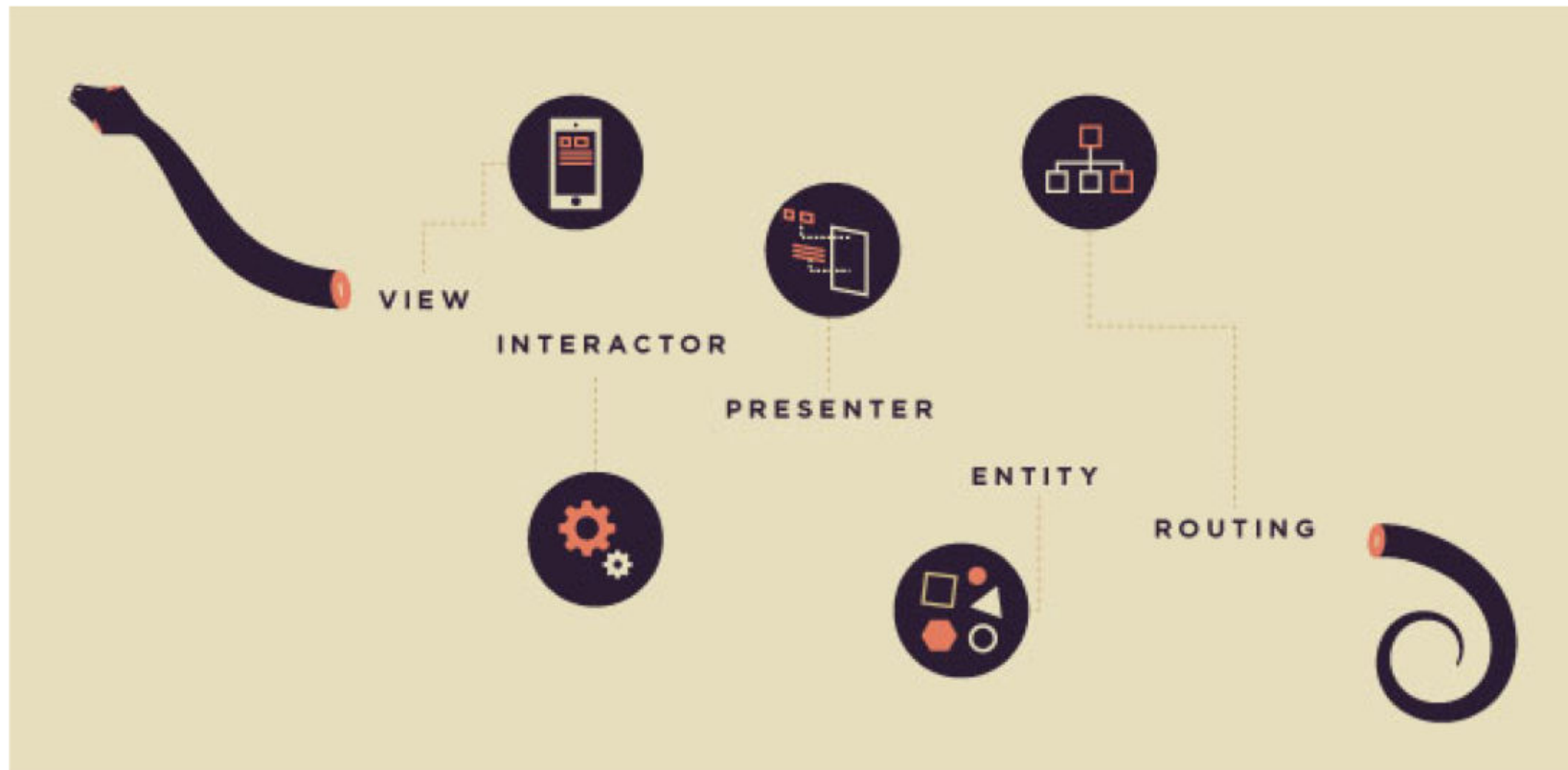
Flux architecture (React)



Flux architecture (React)



VIPER architecture (iOS)



VIPER architecture (iOS)

