

Architectural patterns

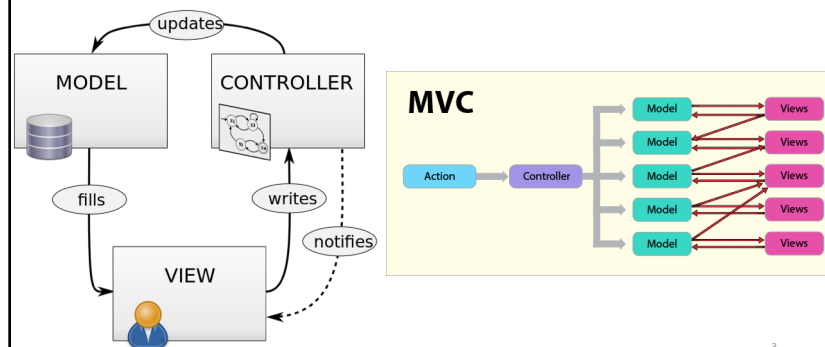
NGUYEN Thi Thu Trang

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

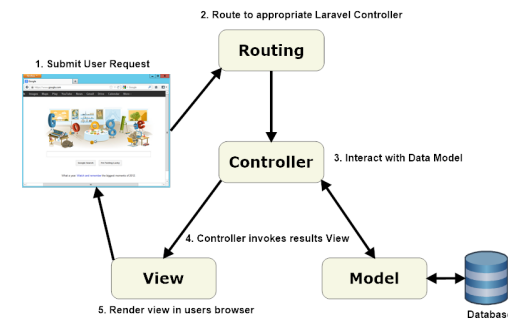
Classic MVC architecture (active)

Problems?



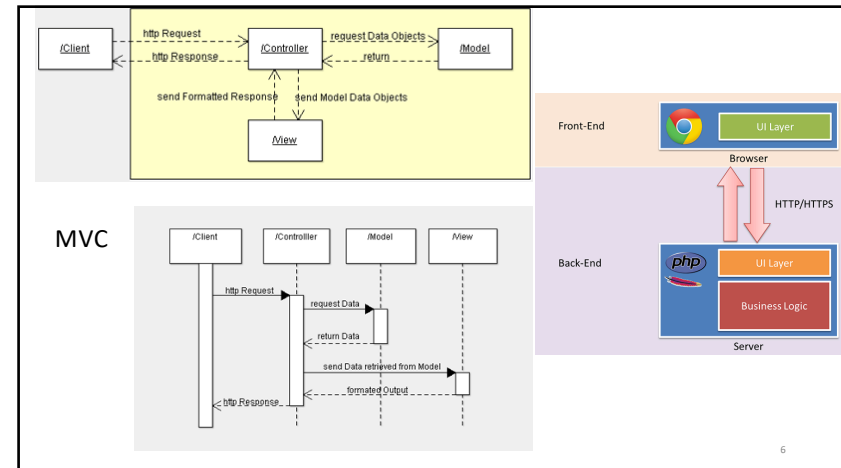
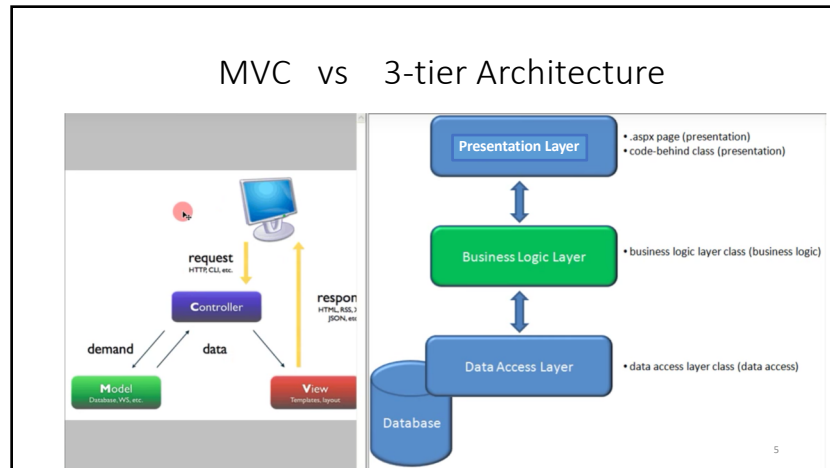
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Passive MVC architecture

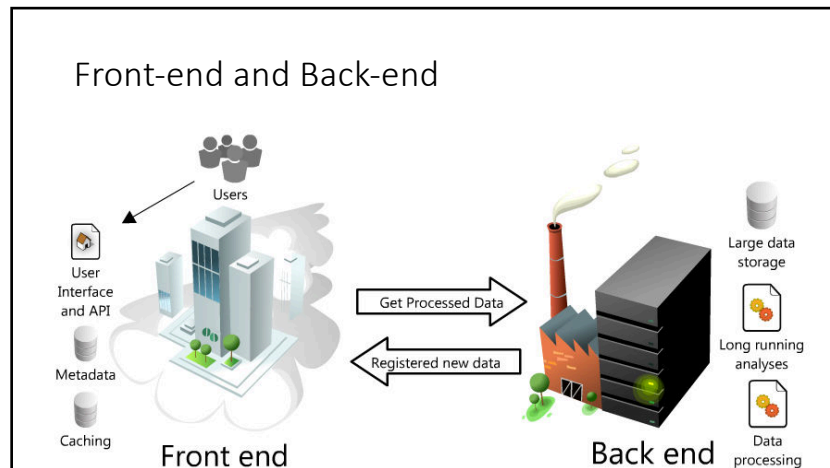


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MVC vs 3-tier Architecture

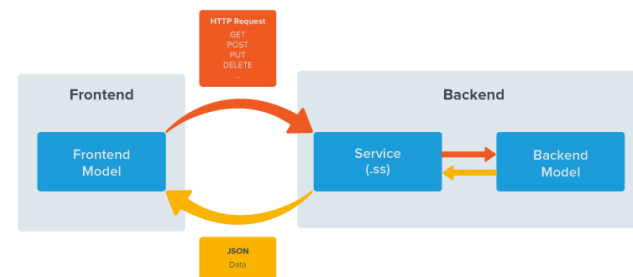


Front-end and Back-end

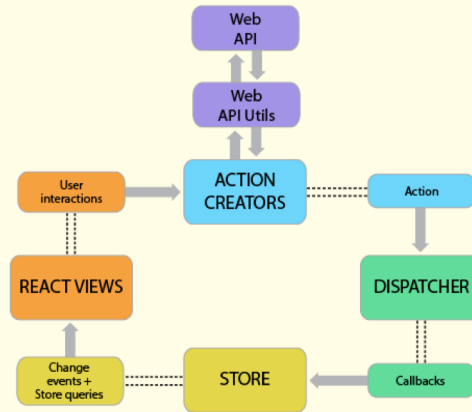


Front end and Back end

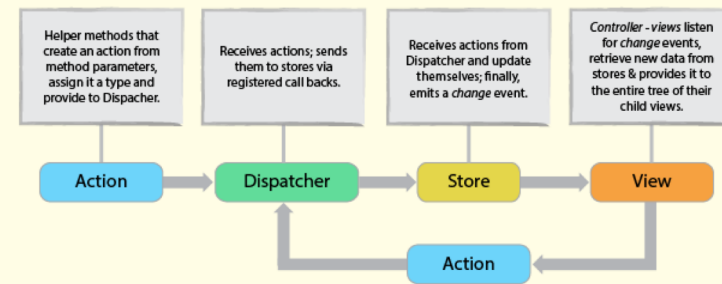
- May have different architectural patterns



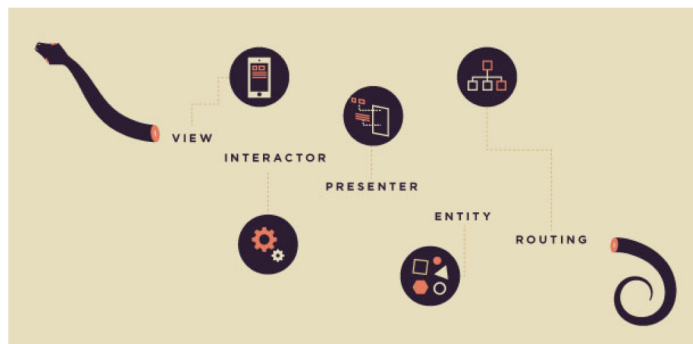
Flux architecture (React)



Flux architecture (React)



VIPER architecture (iOS)



VIPER architecture (iOS)

