

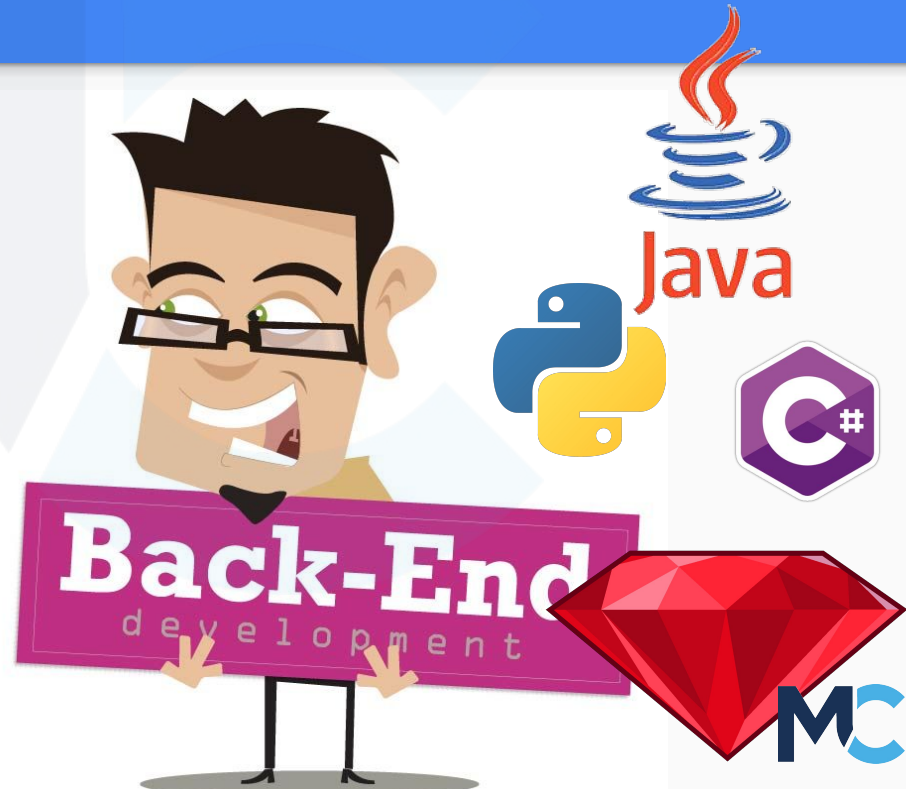


JAVA FULL STACK DEVELOPER

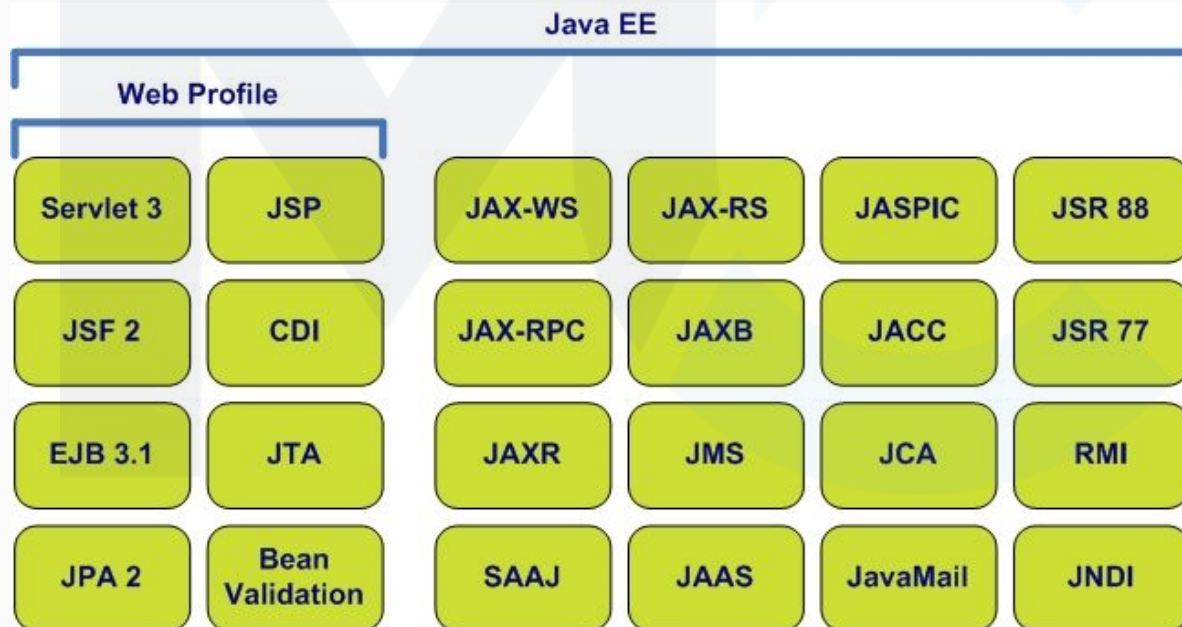
MitoCode Network



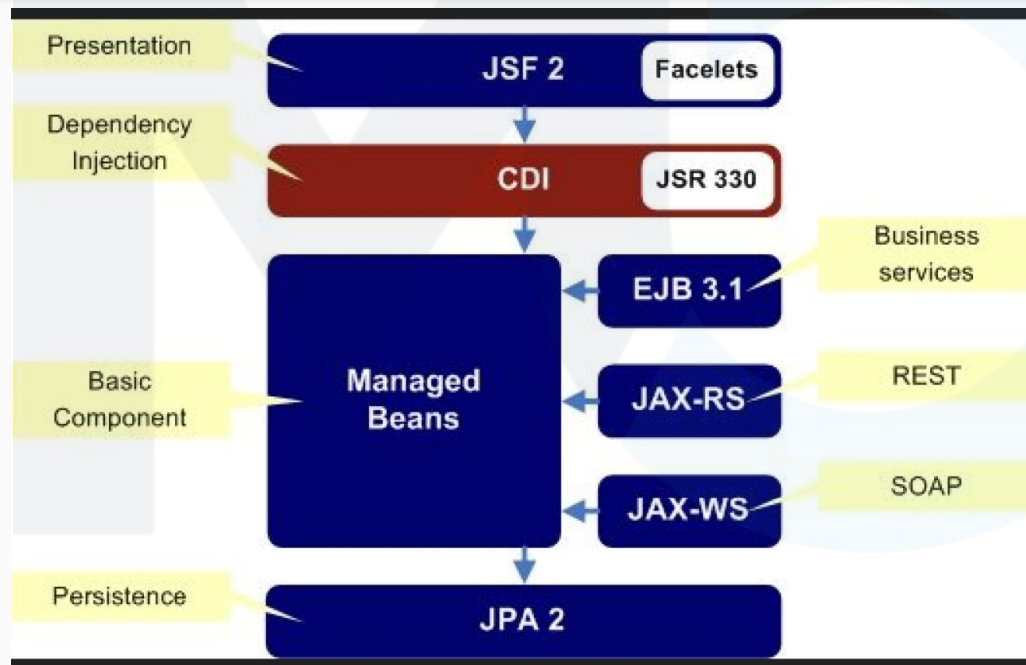
¿Back-end vs Front-end?



Hablemos de Java (Java EE | Jakarta)



Hablemos de Java (Java EE | Jakarta)



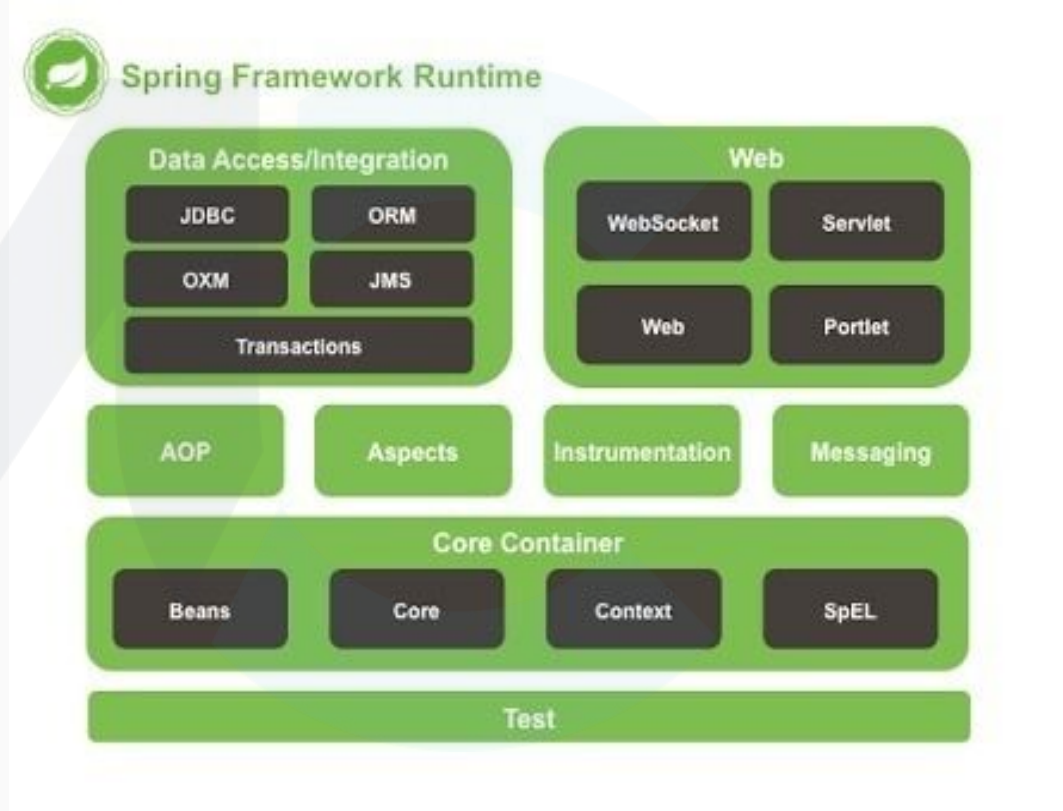
Hablemos de Spring



spring



Spring Framework



Spring Projects

 **spring** by Pivotal

PROJECTS


GUIDES

BLOG

C

Main Projects

From configuration to security, web apps to big data – whatever the infrastructure needs of your application may be, there is a **Spring Project** to help you build it. Start small and use just what you need – **Spring is modular by design**.

 SPRING IO PLATFORM Provides a cohesive, versioned platform for building modern applications. It is a modular, enterprise-grade distribution that delivers a curated set of dependencies.	 SPRING BOOT Takes an opinionated view of building Spring applications and gets you up and running as quickly as possible.	 SPRING FRAMEWORK Provides core support for dependency injection, transaction management, web apps, data access, messaging and more.
 SPRING CLOUD DATA FLOW An orchestration service for composable data microservice applications on modern runtimes.	 SPRING CLOUD Provides a set of tools for common patterns in distributed systems. Useful for building and deploying microservices.	 SPRING DATA Provides a consistent approach to data access – relational, non-relational, map-reduce, and beyond.
 SPRING INTEGRATION Supports the well-known <i>Enterprise Integration Patterns</i> via lightweight messaging and declarative adapters.	 SPRING BATCH Simplifies and optimizes the work of processing high-volume batch operations.	 SPRING SECURITY Protects your application with comprehensive and extensible authentication and authorization support.

Comparativa

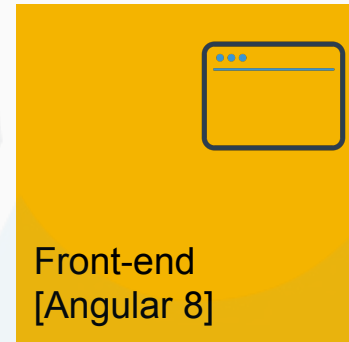
Java EE vs. Spring Framework Features/APIs



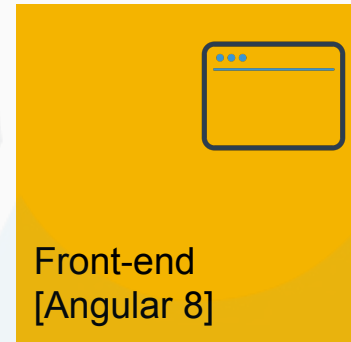
* Similar patterns for validation, remoting, security, scheduling, XML binding, JMX, JCA, JavaMail, caching

* Spring also supports EJB 3.1, but not CDI

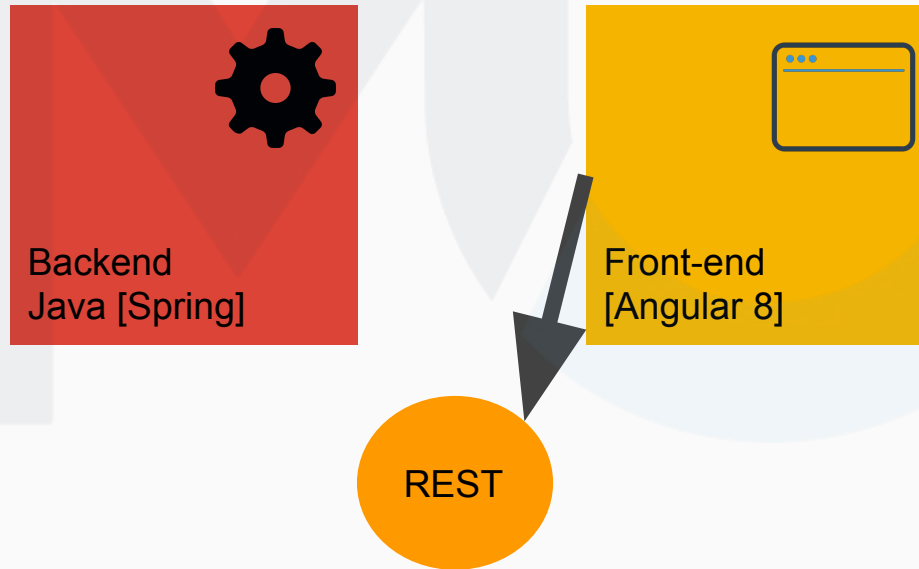
¿Dónde nos centraremos en el curso?



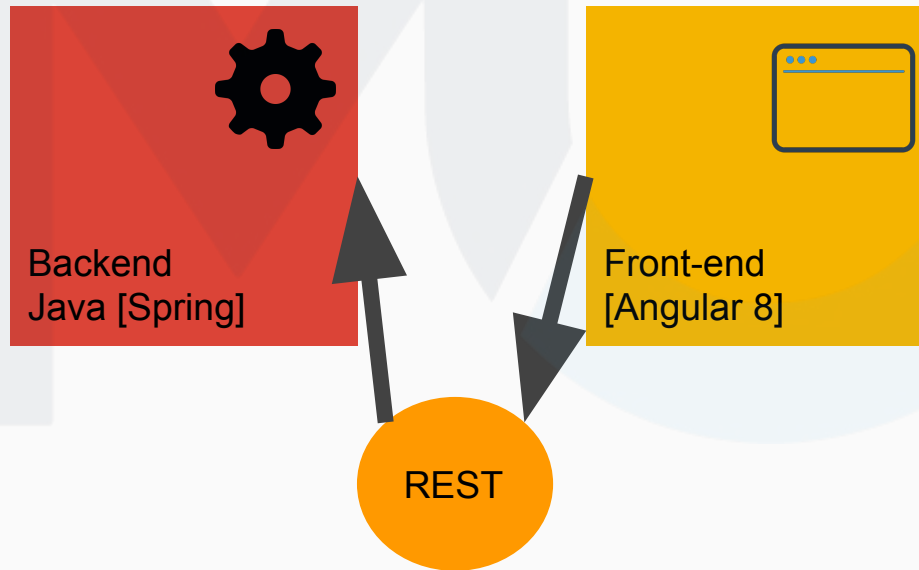
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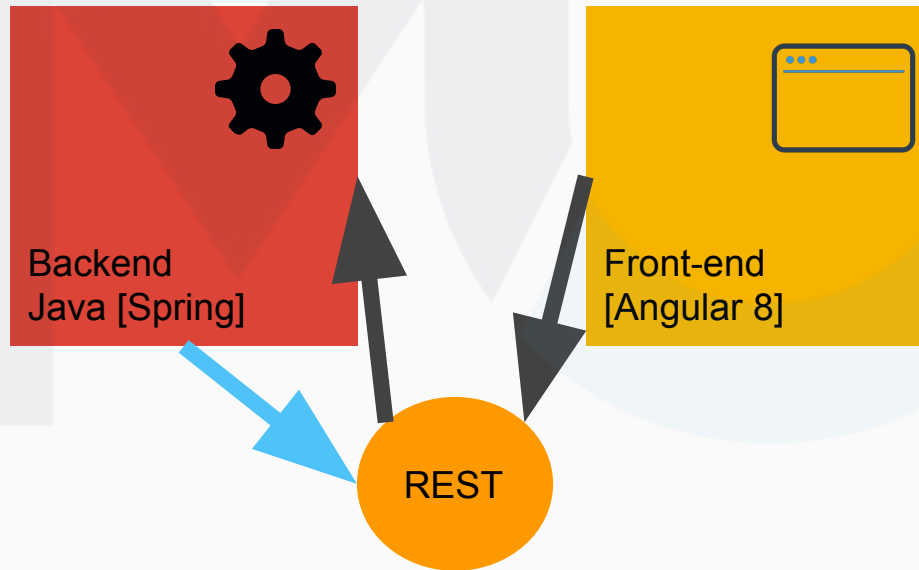
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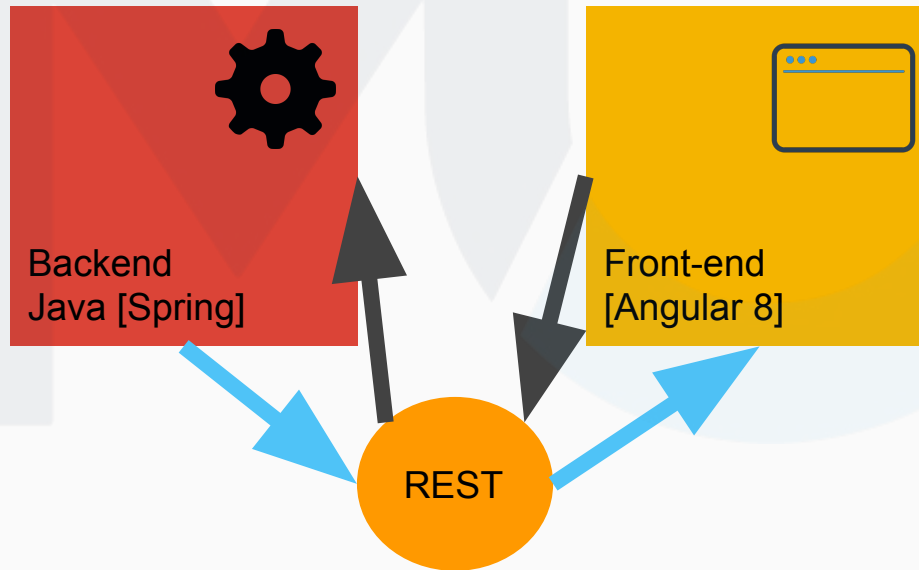
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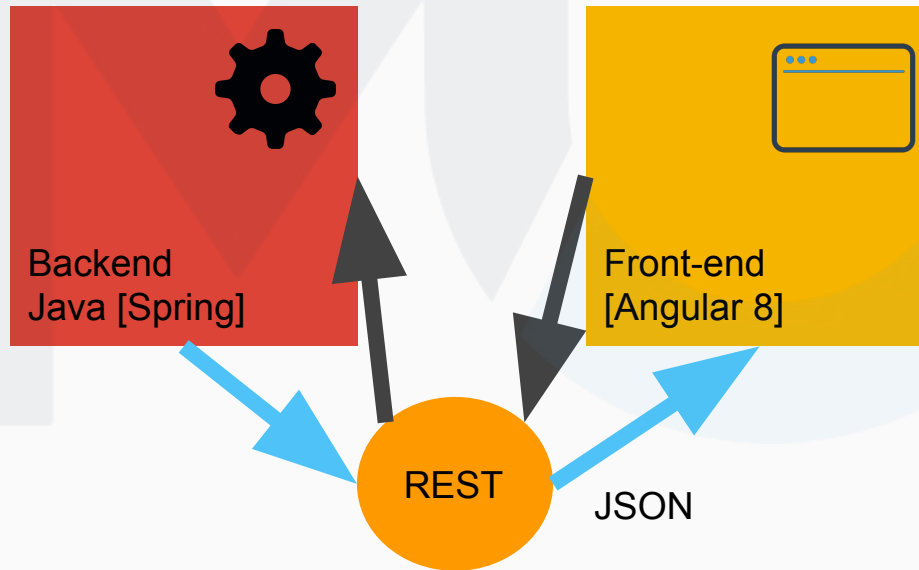
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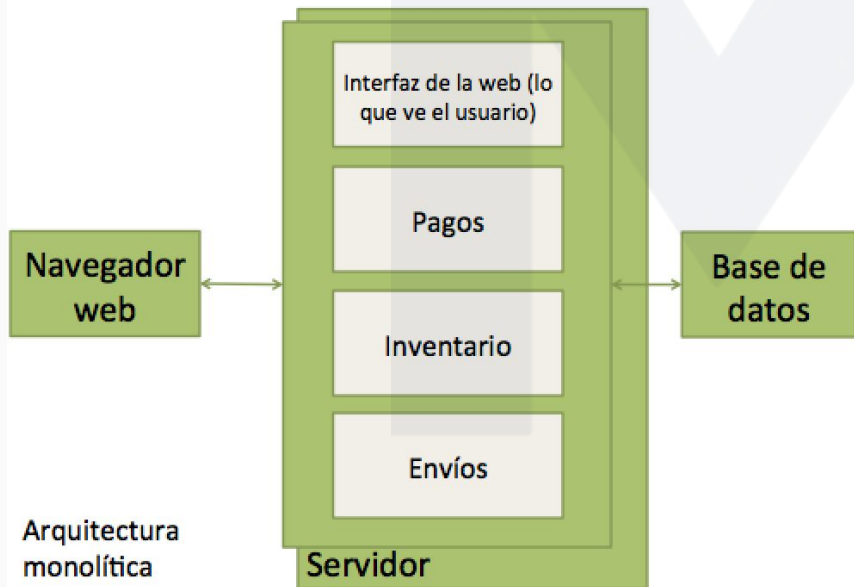
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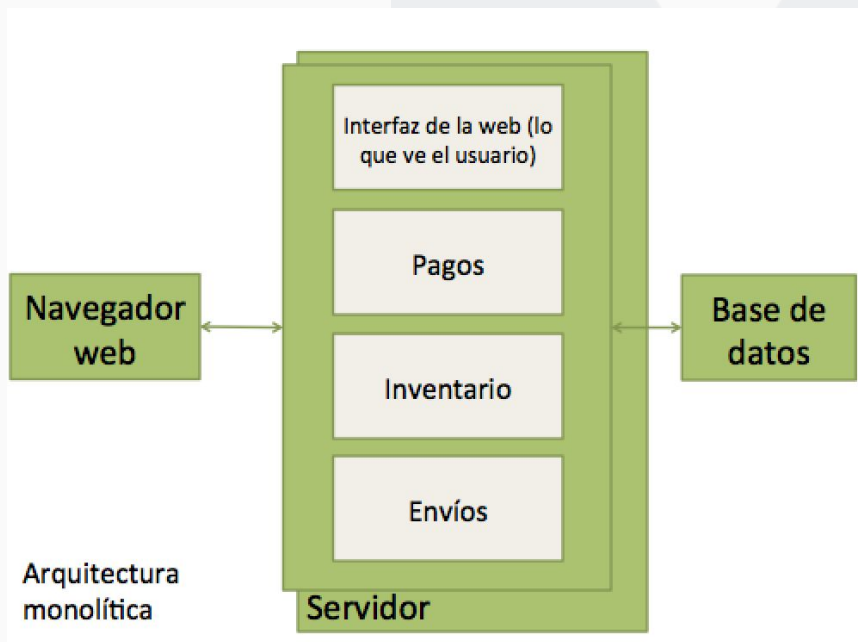
Objetivos del curso

- Crear un backend con Spring [Boot]
 - Servicios REST
 - Protección por JWT
 - Spring Data JPA Repository
 - JSON
 - Enfoque Monolítico
 - Enfoque Microservicios
- Crear un frontend con Angular 8
 - Angular Material
 - Seguridad y comunicación con servicios
- Puesta en producción., despliegue en DigitalOcean

Arquitectura 1 [Monolito]

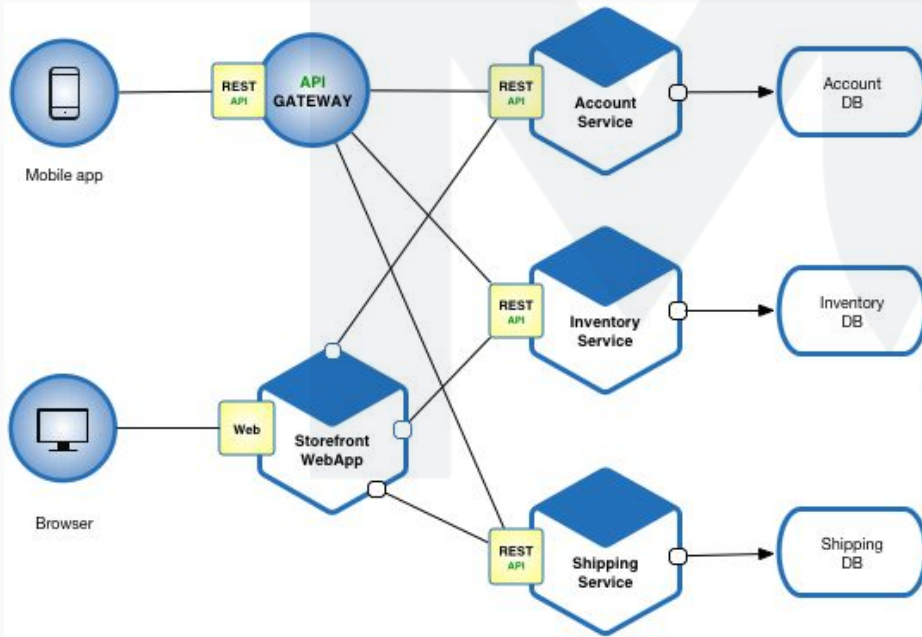


Arquitectura 1 [Monolito]

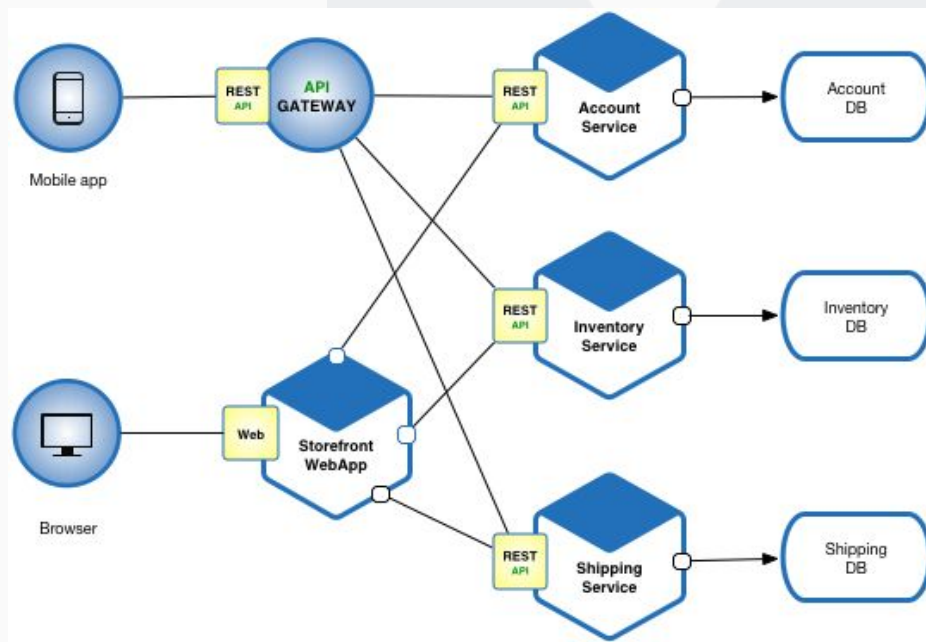


- Simple desarrollo
- Simple de probar
- Simple de desplegar
- Simple de escalar

Arquitectura 2 [Microservicios]

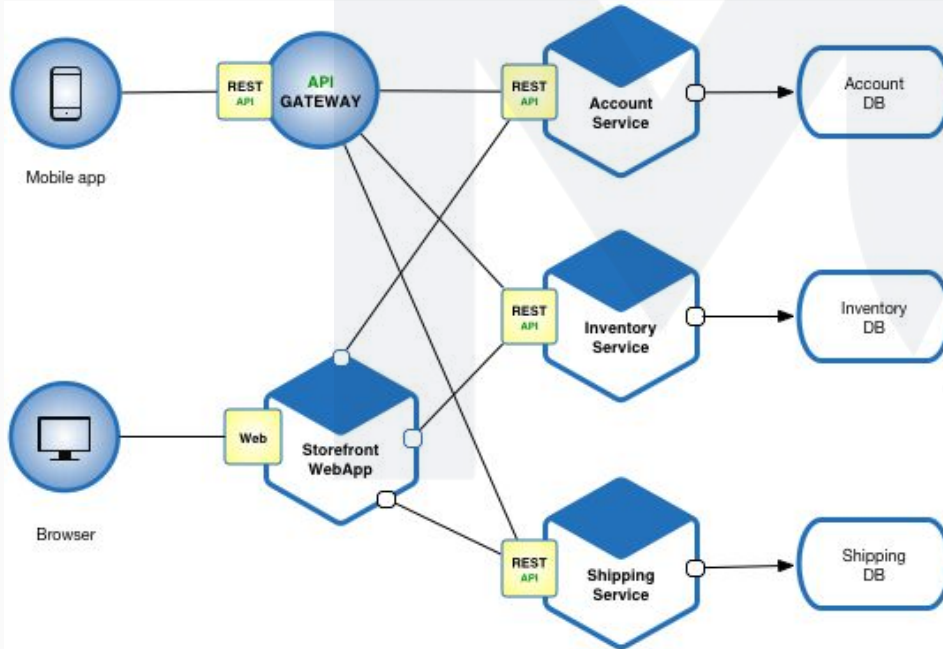


Arquitectura 2 [Microservicios] - Ventajas



- Simple mantenimiento
- Equipo multi-lenguaje (diversidad tecnológica)
- Desarrollos en paralelo

Arquitectura 2 [Microservicios] - Desventajas



- Complejidad de configuración
- Complejidad de seguridad
- Complejidad de gestionar errores