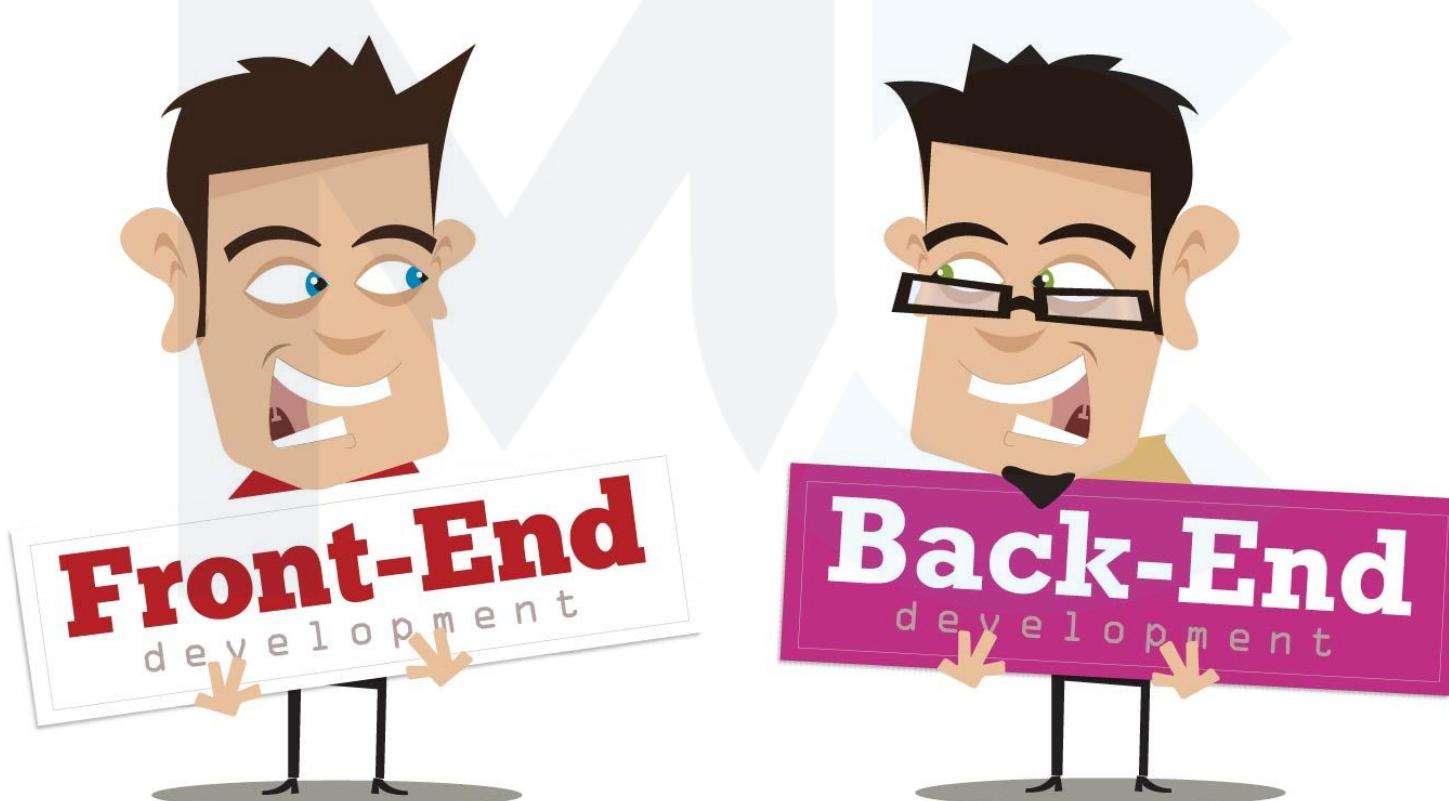


# **JAVA FULL STACK DEVELOPER**

**MitoCode Network**

Edición 2022

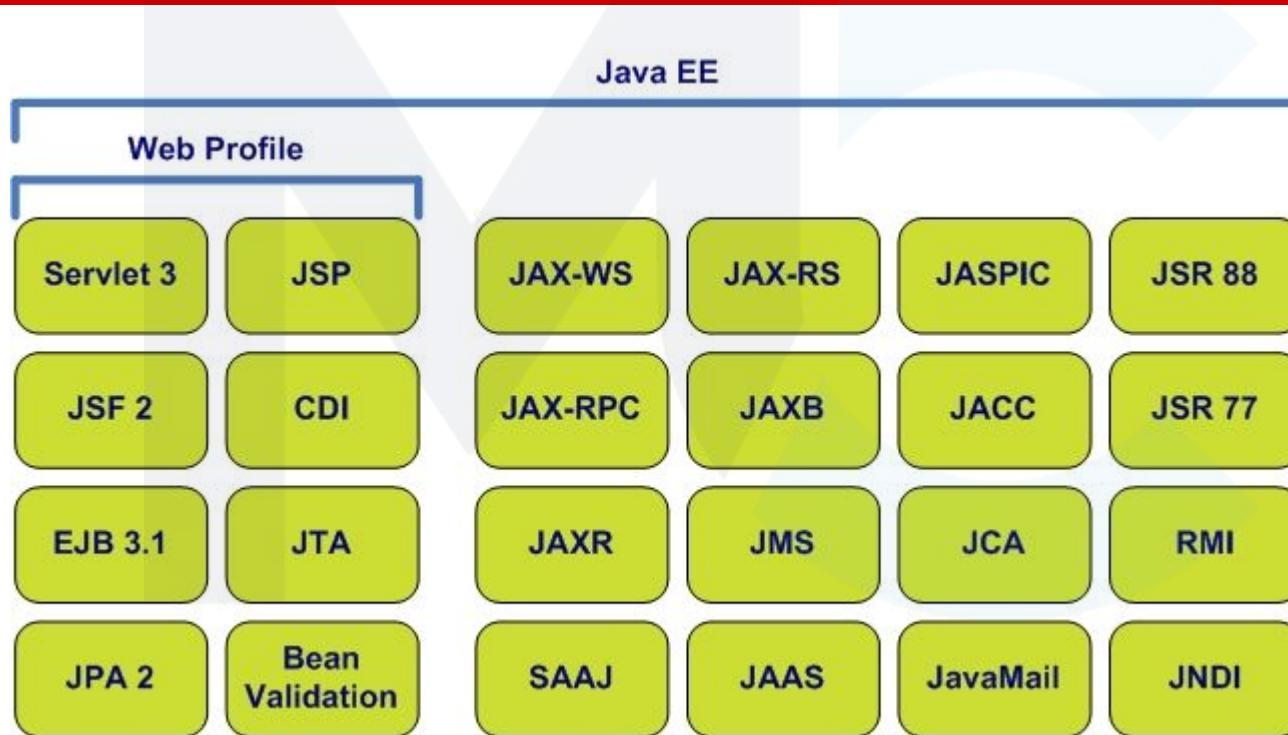
# ¿Back-end vs Front-end?



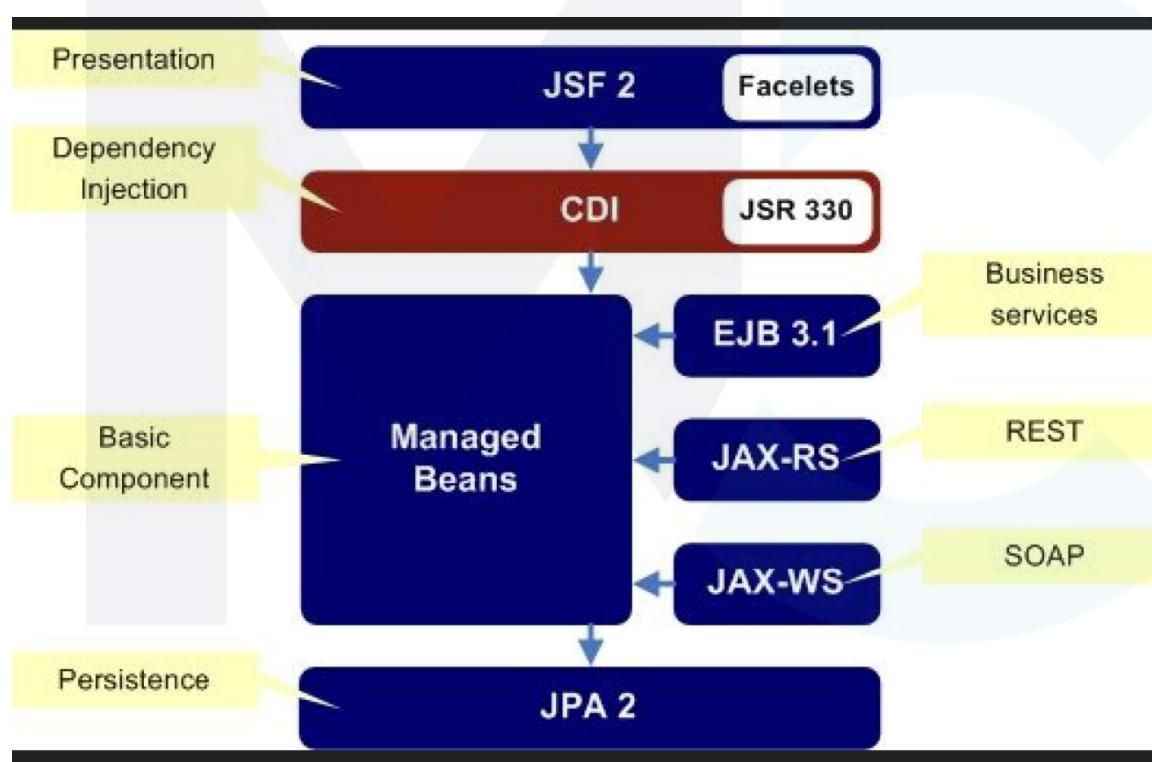
# ¿Back-end vs Front-end?



# Hablemos de Java (Java EE | Jakarta)



# Hablemos de Java (Java EE | Jakarta)



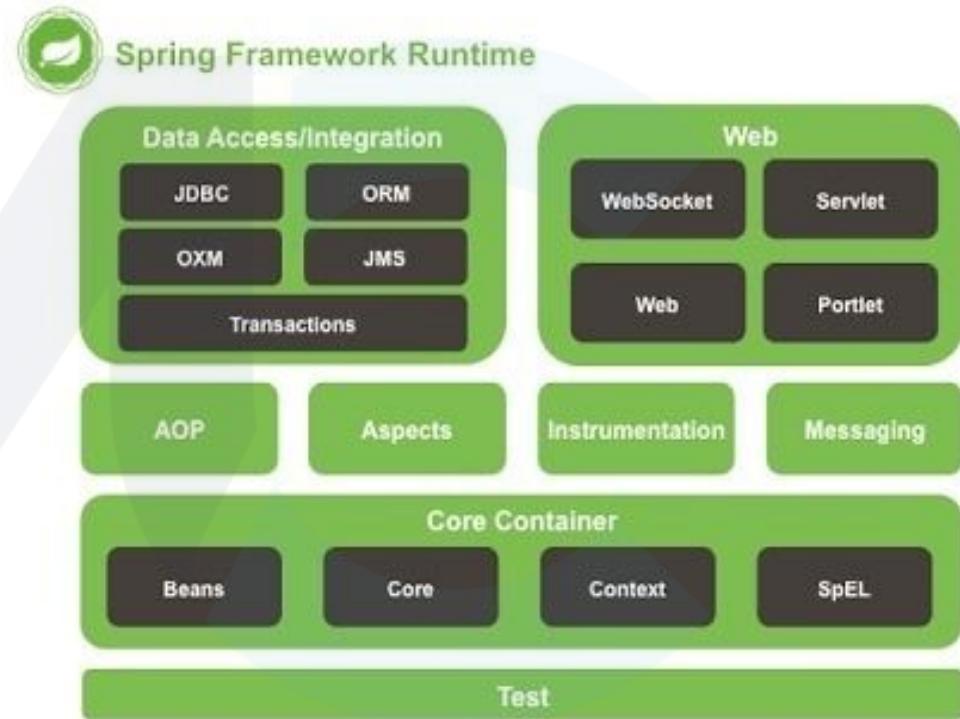
# Hablemos de Spring



spring



# Spring Framework



# Spring Projects

## 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 *Enterprise Integration Patterns* 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

	Java EE			Spring Framework					
Dependency Injection	JSR 250	JSR 330	CDI	JSR 250	JSR 330	Spring IoC Container			
AOP	Interceptor	Decorator		Spring AOP	AspectJ				
Persistence	JPA 2			JPA 2	Hibernate	JDBC	iBATIS	TopLink	JDO
Transactions	JTA	EJB 3.1		JTA	JDBC	JPA	Hibernate	TopLink	JDO
Presentation Framework	JSF 2			JSF 2	Struts	Spring MVC	Tapestry	WebWork	
Web Services	JAX-WS	JAX-RS		JAX-WS	XFire	Spring MVC REST	JAX-RPC		
Messaging	JMS	EJB 3.1		JMS					
Testing	CDI	EJB 3.1	JPA 2	JUnit	TestNG				

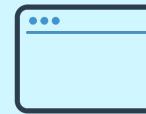
\* Similar patterns for validation, remoting, security, scheduling, XML binding, JMX, JCA, JavaMail, caching

\* Spring also supports EJB 3.1, but not CDI

# ¿Dónde nos centraremos en el curso?

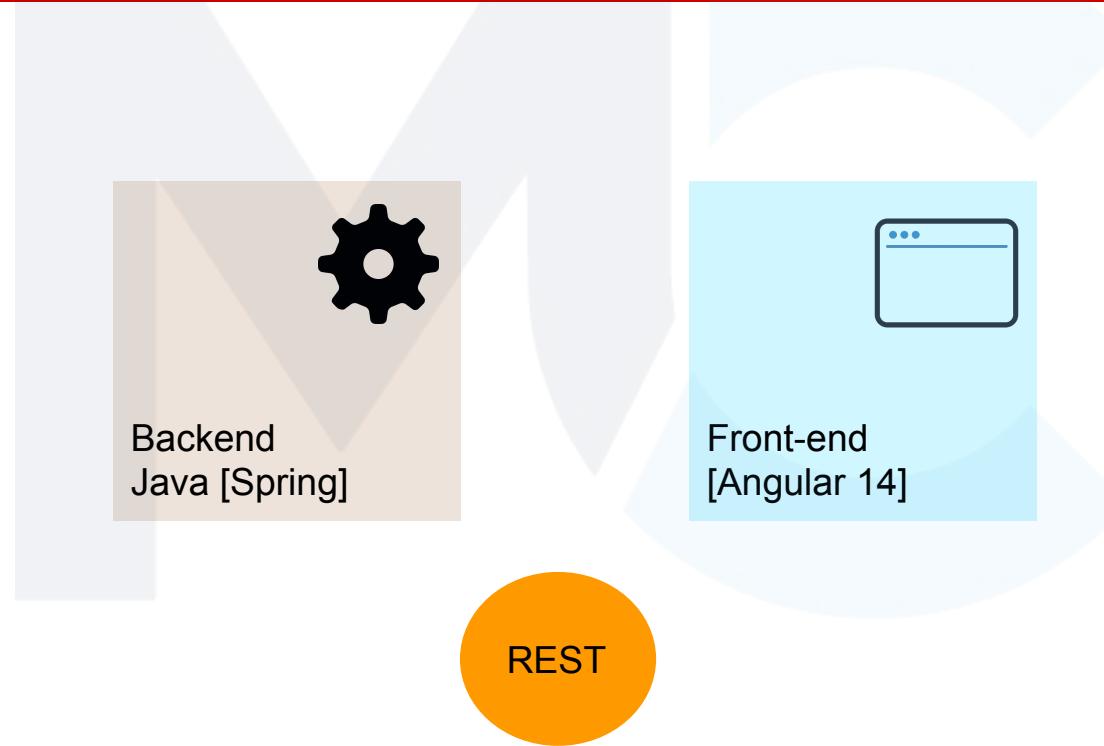


Backend  
Java [Spring]

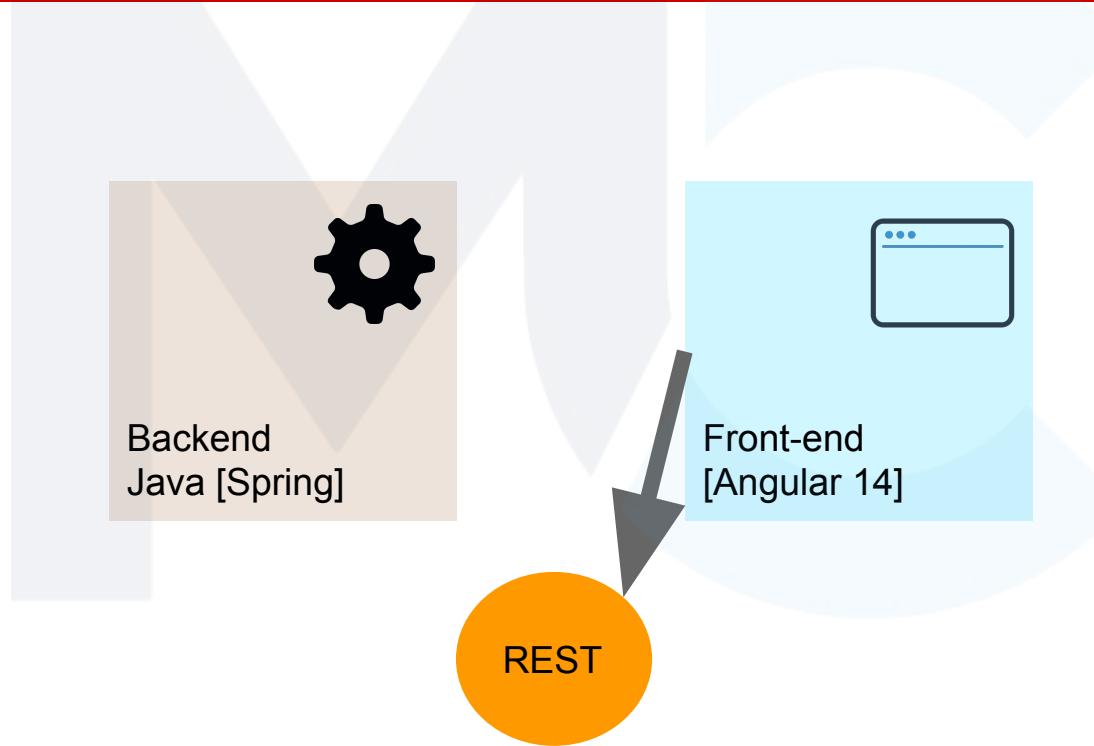


Front-end  
[Angular 14]

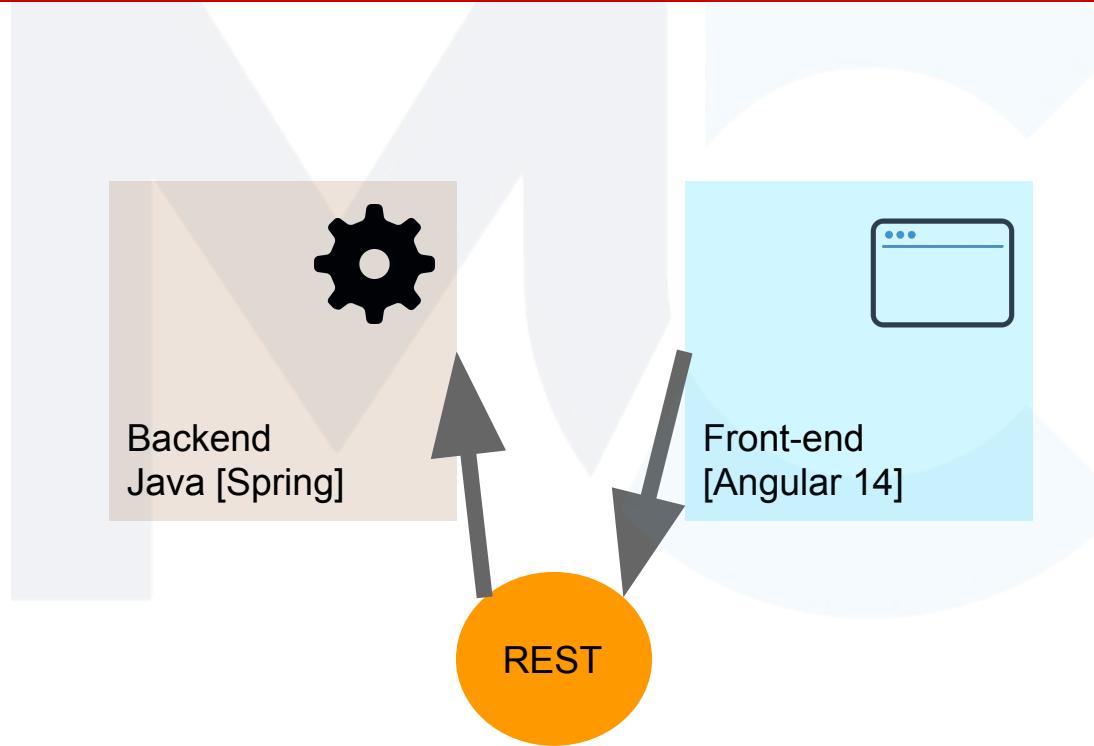
# ¿Dónde nos centraremos en el curso?



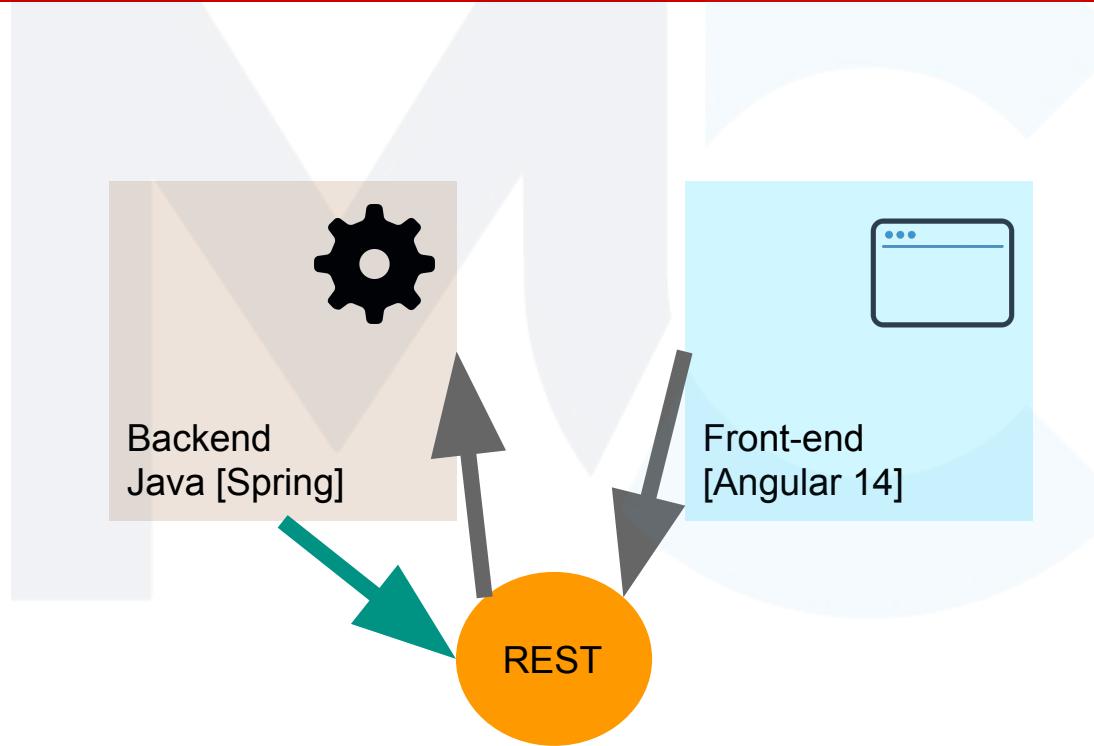
# ¿Dónde nos centraremos en el curso?



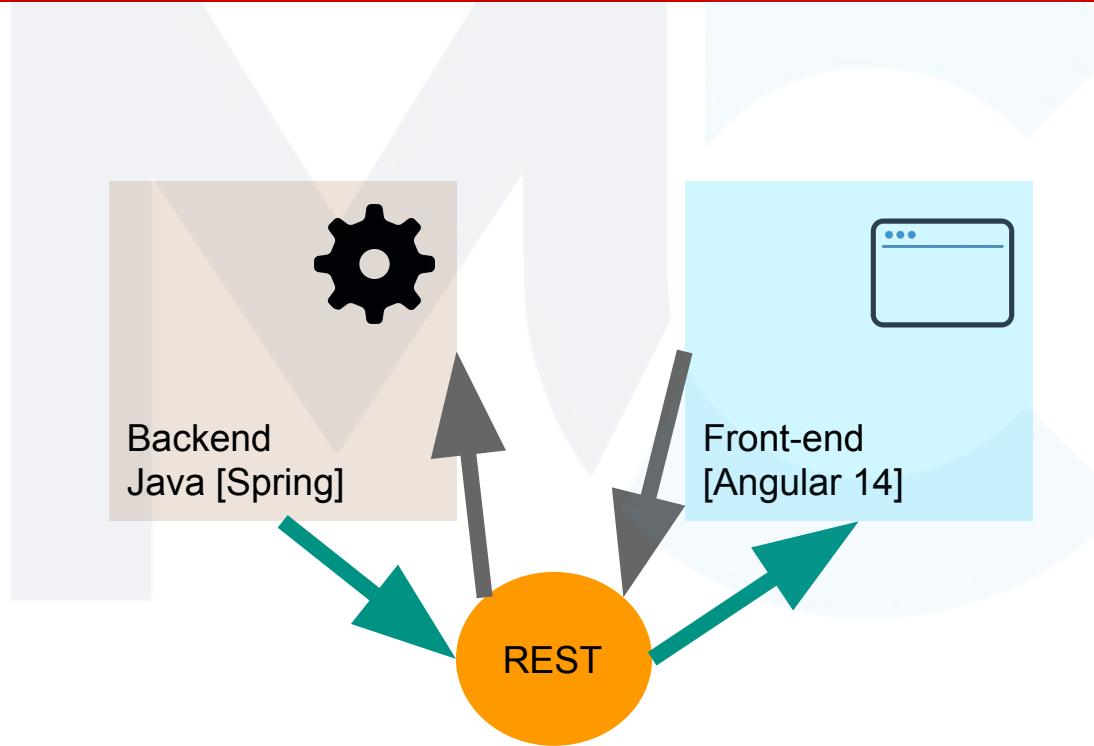
# ¿Dónde nos centraremos en el curso?



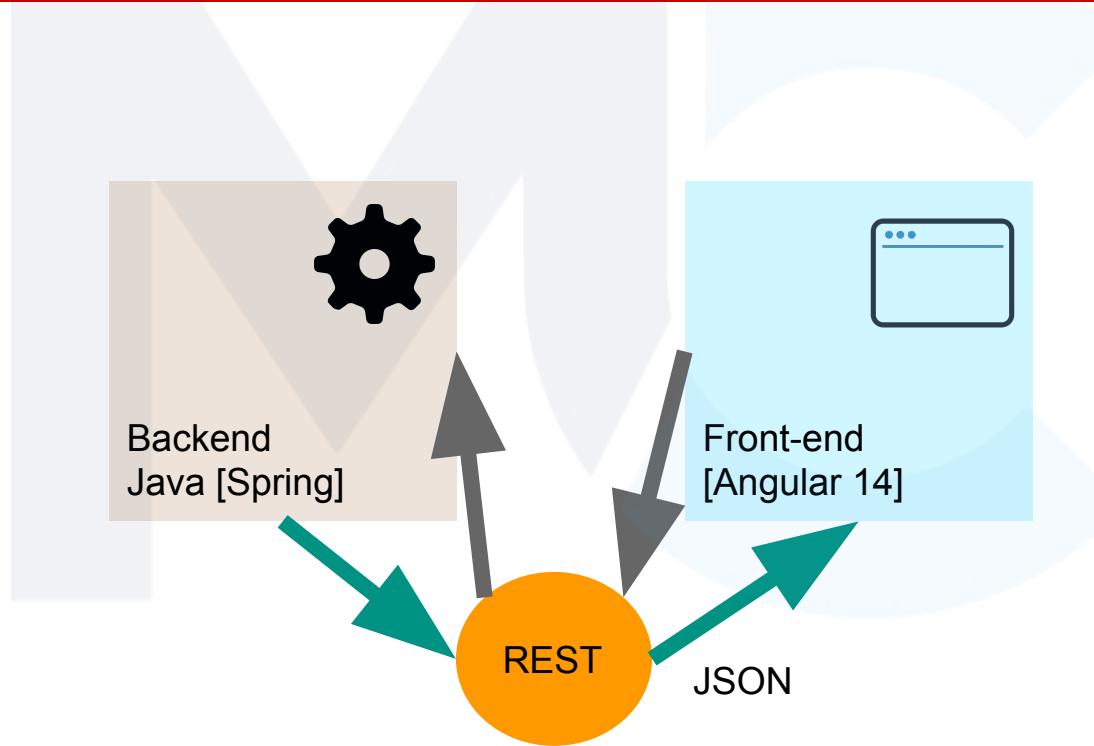
# ¿Dónde nos centraremos en el curso?



# ¿Dónde nos centraremos en el curso?



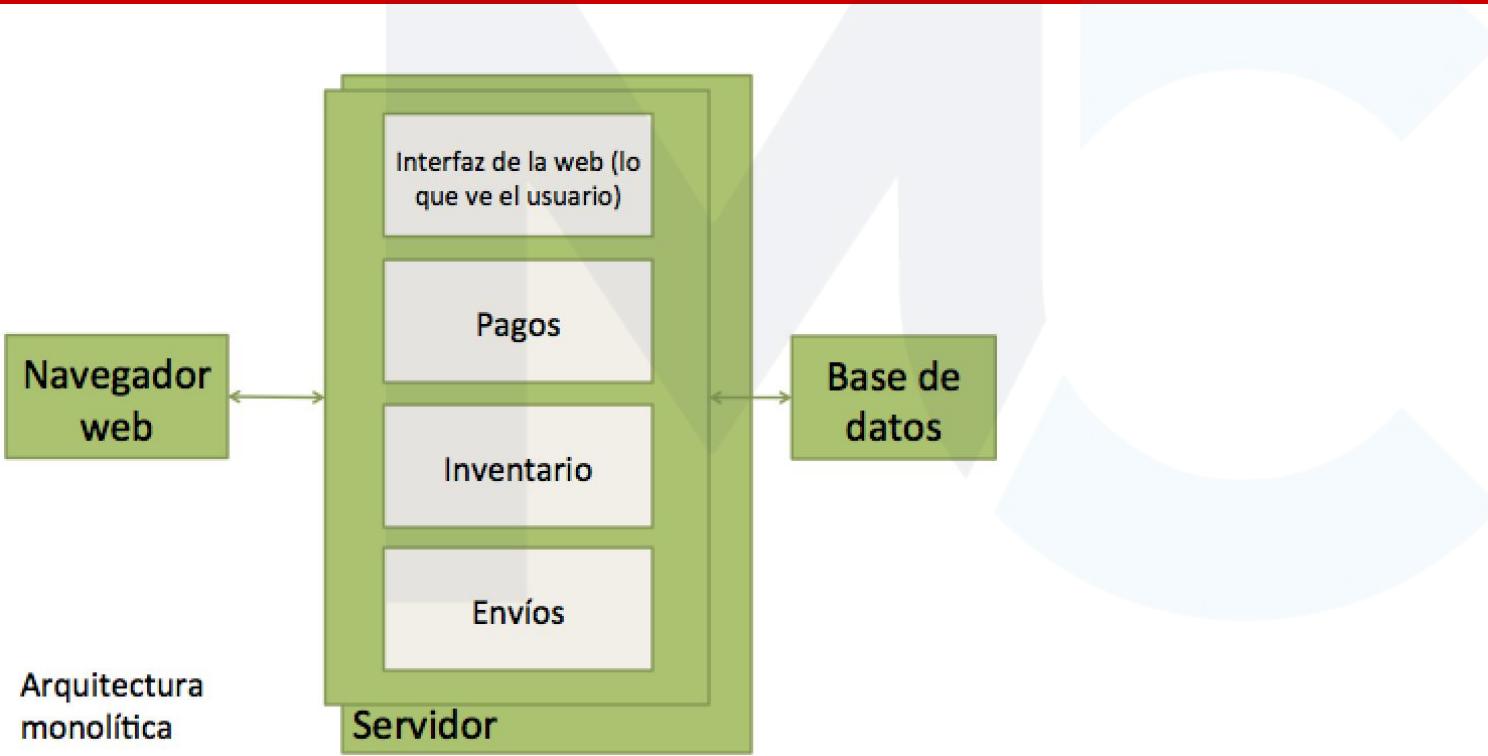
# ¿Dónde nos centraremos en el curso?



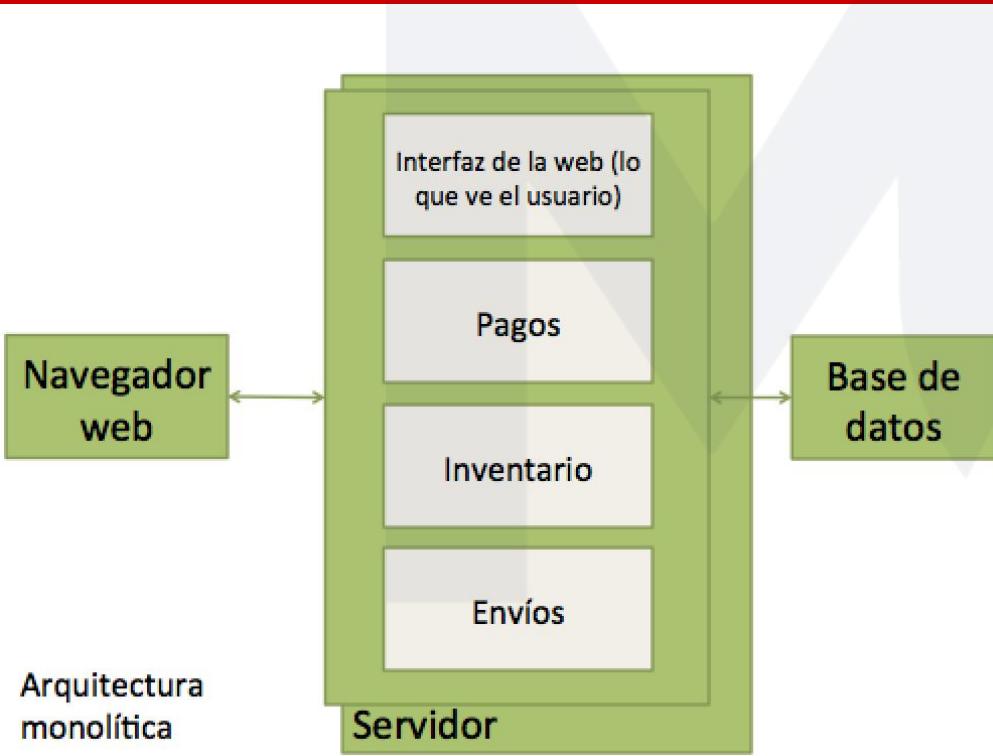
# Objetivos del curso

- 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 14
  - Angular Material
  - Seguridad y comunicación con servicios
- Puesta en producción.

# Arquitectura 1 [Monolito]

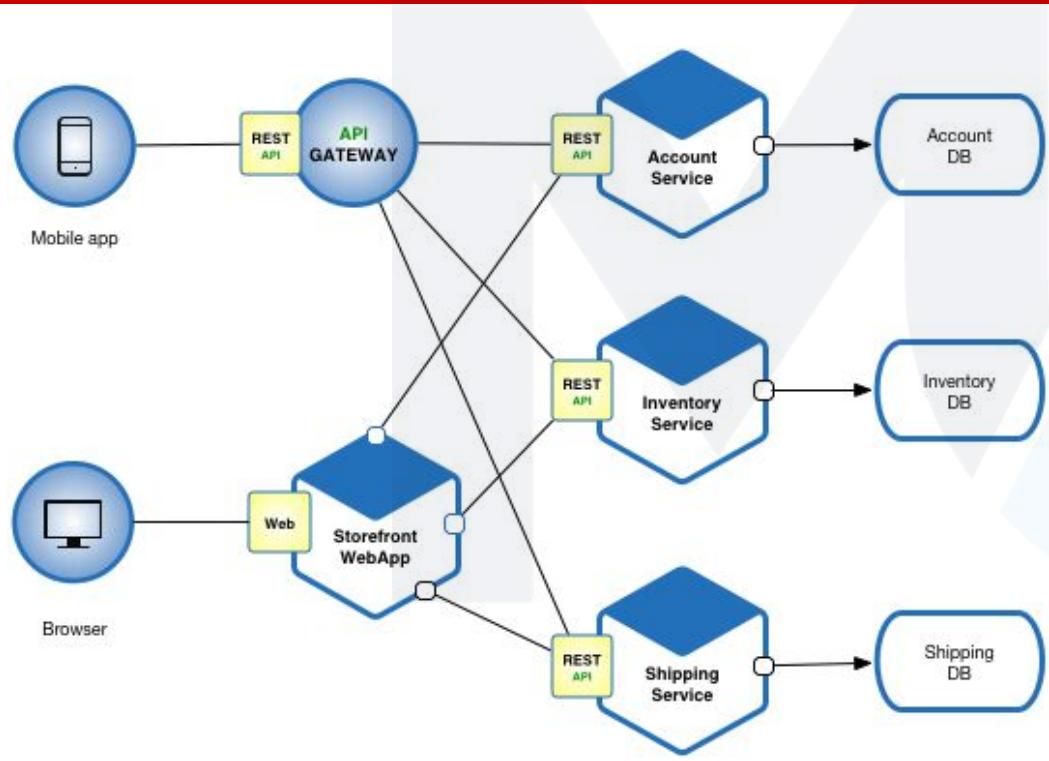


# Arquitectura 1 [Monolito]

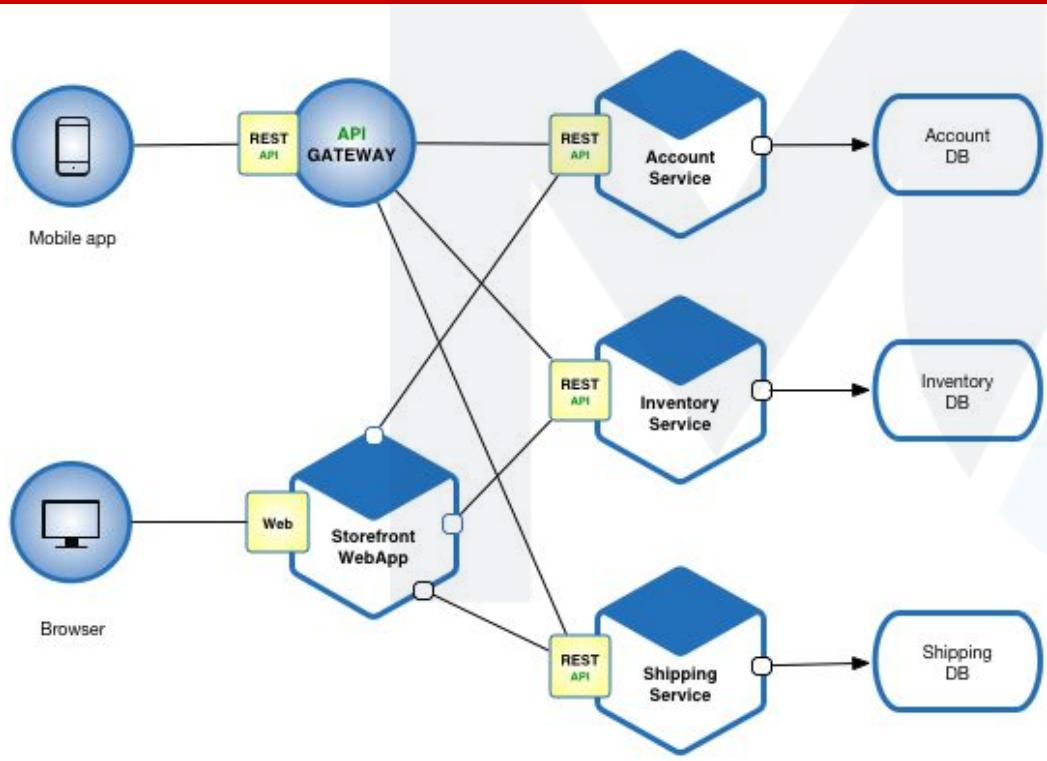


- Simple desarrollo
- Simple de probar
- Simple de desplegar
- Simple de escalar

# Arquitectura 2 [Microservicios]

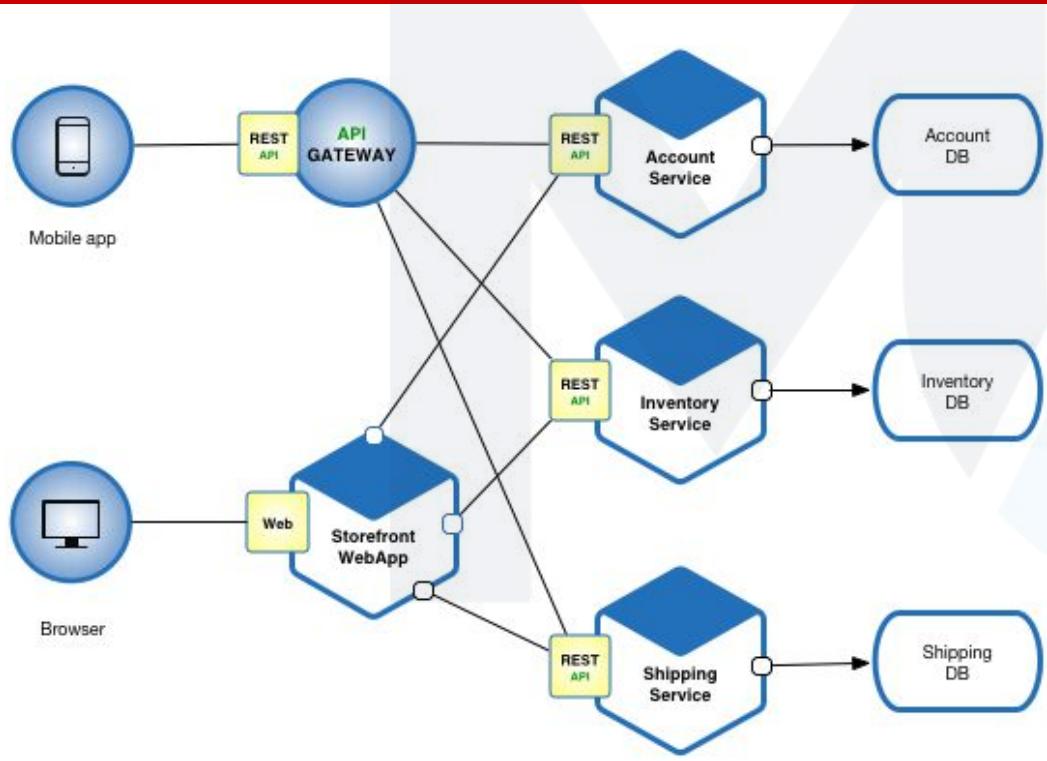


# Arquitectura 2 [Microservicios] - Ventajas



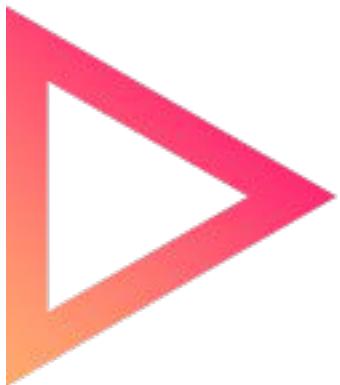
- Simple mantenimiento
- Equipo multi-lenguaje (diversidad tecnológica)
- Desarrollos en paralelo

# Arquitectura 2 [Microservicios] - Desventajas



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

¡Empecemos!



PRESS  
START