

APLICATII WEB CU SUPORT JAVA

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Aplicatii Web cu Suport Java, sem.I, 2024-2025

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Introducere in Spring

- Introducere
- Modelul componentelor Spring
- Compunerea sistemelor complexe
- Testarea aplicatiilor Spring cu Postman

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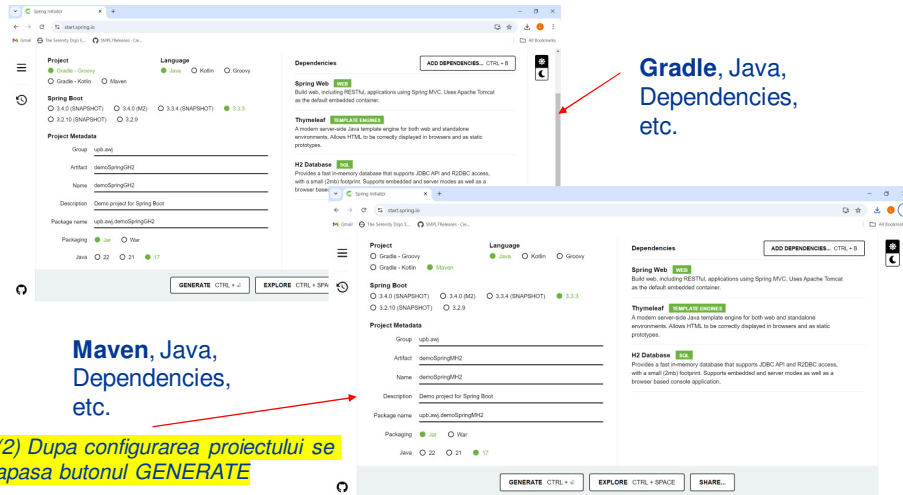
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Spring Initializer

- Introducere in Spring Boot

(1) Se acceseaza link-ul start.spring.io

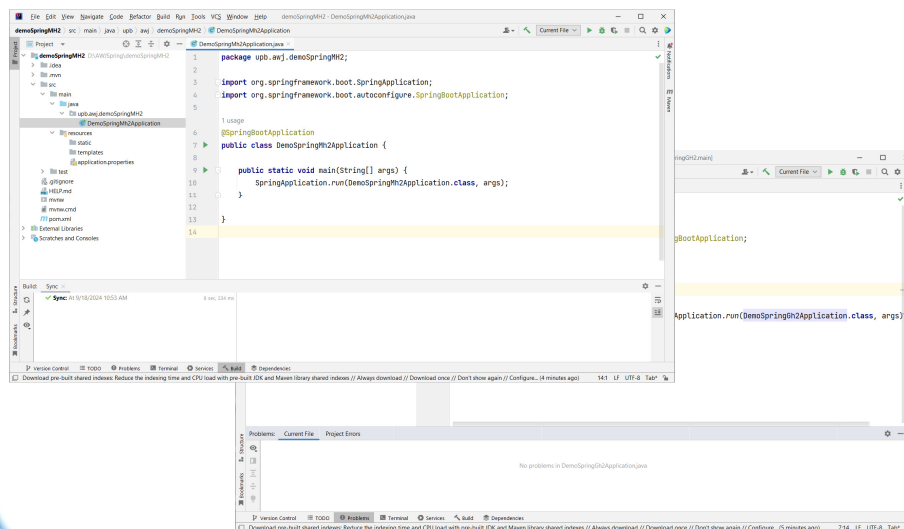


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(3) Se deschide proiectul generat in IntelliJ



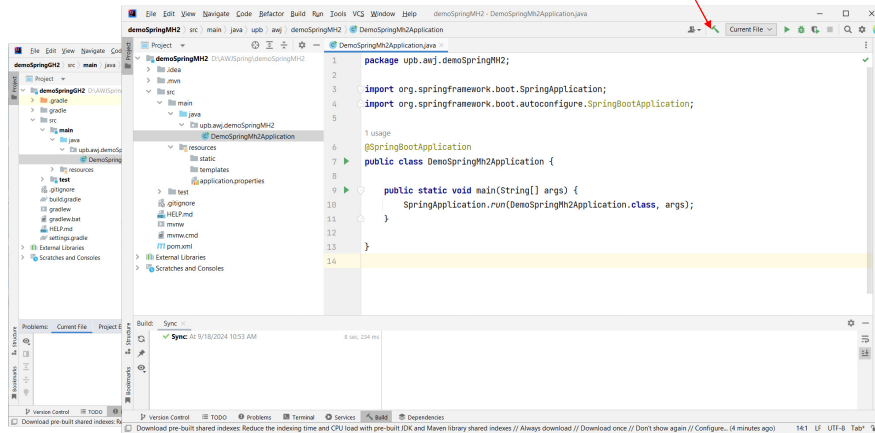
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• Introducere in Spring Boot

(4) Se realizeaza Build



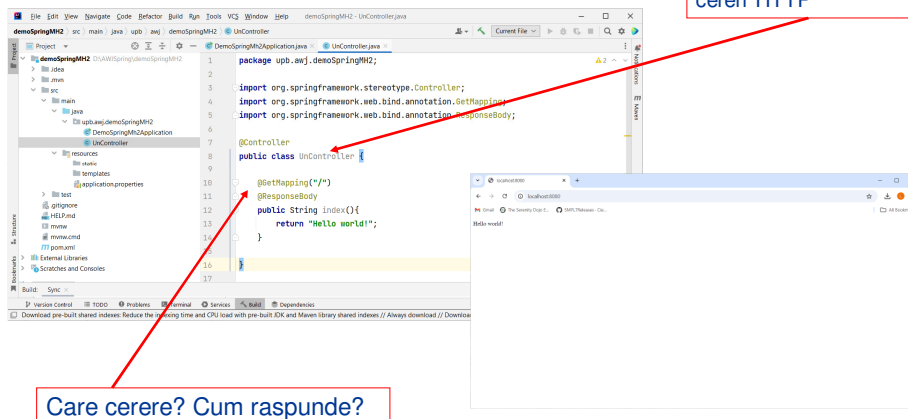
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Controller Spring

(5) Se adauga proiectului clasa Controller

- Clasa este responsabila cu preluarea cererilor

Clasa responsabila de cereri HTTP



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Despre HTTP

Structura unui URL

http://acs.student.website.com://1234/alta/cale?param=valoare&p2=v2

Protocol

Hostname

Port

Ruta

Parametrii

- Metode HTTP: GET, POST, PUT, DELETE,etc

- Mai multe detalii la

- <https://developer.mozilla.org/en-US/docs/Web/HTTP/Methods>

- Request / Response

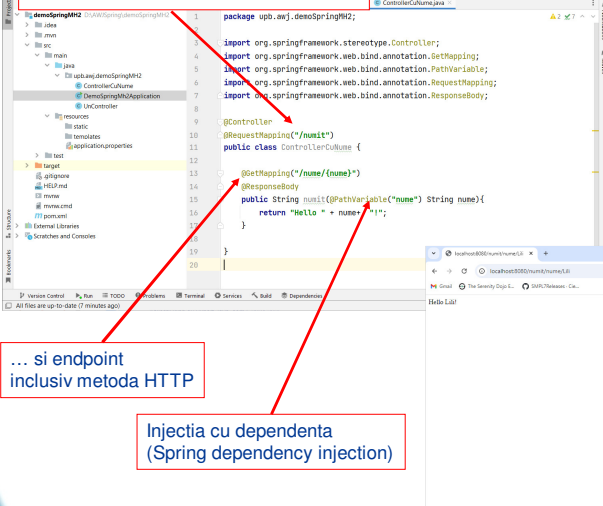
Header

Body

Diferite Rute si Variabile de Ruta

Se inregistreaza ruta specifica a controllerului

Aplicatia web trebuie sa se execute oriunde "everywhere"



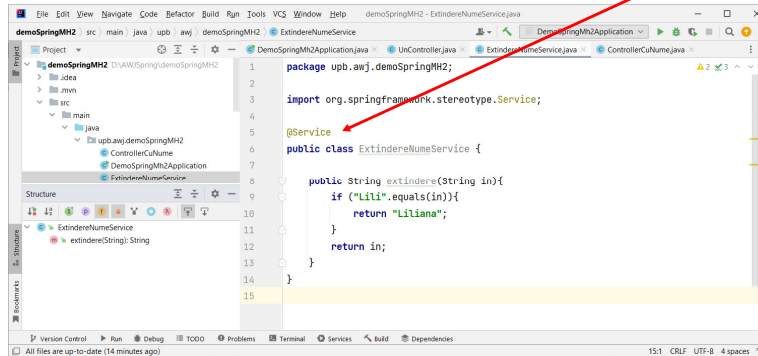
... si endpoint inclusiv metoda HTTP

Injectia cu dependenta (Spring dependency injection)

Alte adnotari care pot fi utilizate pentru a accesa detalii din request:
@RequestParam,
@RequestBody sau
@RequestHeader
Recomandare de studiat:
Documentatie Spring!

Compunerea sistemelor complexe prin servicii

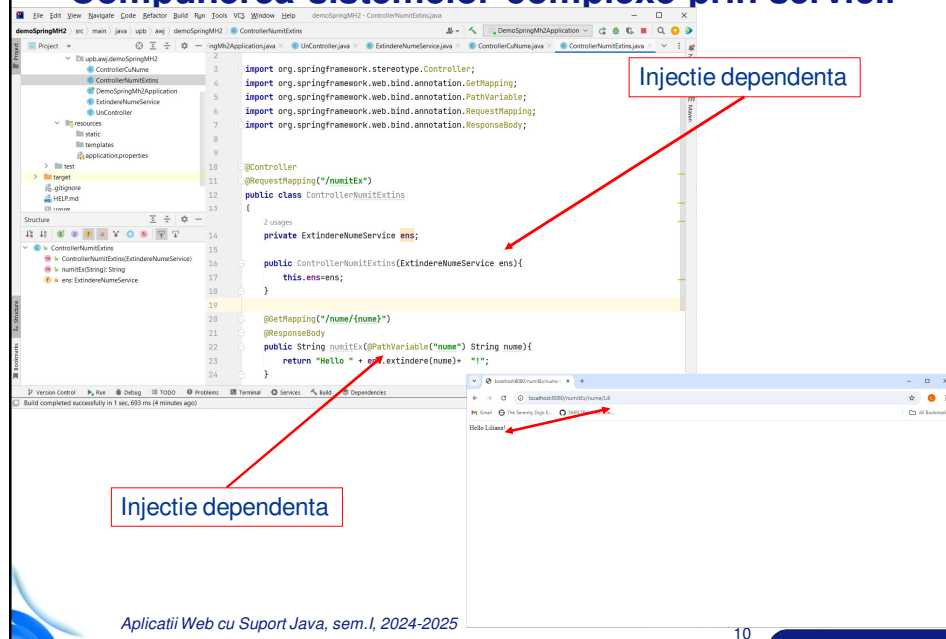
Spring se va ocupa de instantiere



Compunerea sistemelor complexe prin servicii

Injectie dependenta

Injectie dependenta



Modelul de Componente Spring (=Injectie Dependenta)

- @Component
 - @Controller/ @RestController
 - @Repository
 - @Service
 - – Spring va crea un obiect bean al clasei care are acelasi nume cu al clasei (incepe cu litera mica)
- @Autowired //ApplicationContext.getBean(Class<?>)
- @Configuration
 - @Bean
 - @Scope(value=ConfigurableBeanFactory.X