Spring Boot Main annotations

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1. @SpringBootApplication //=@EnableAutoConfiguration + @ComponentScan + @Configuration

2. @ComponentScan –scan for bean in parent and its child package of springbootapplication class

3. @EanbleAutoConfiguration – enables Spring Boot to auto-configure the application context. Therefore, it automatically creates and registers beans based on both the included jar files in the classpath and the beans defined by us.

4. @Configuration –with the help of @Bean , it create bean and pass on where bean is required.

e.g if we want to use RestTemplate – we need to define bean for it in some config class

Stereotype annotation

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1. @Component

2. @Service

3. @RestController / @Controller

4. @Repository

Spring Core related Annotations:

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@Configuration

@Bean

@Autowired

@Qualifier --

AnnotationServiceImplV1/ AnnotationServiceImplV2 implements AnnotationService

And we autowire AnnotationService and hence spring find two bean :-

Field annotationService in com.springbootannotations.controller.AnotationsController required a single bean, but 2 were found:

- annotationServiceImplV1: defined in file [D:\My Works\Eclipse-workspace\springboot-annotations\springboot-annotations\target\classes\com\springbootannotations\service\AnnotationServiceImplV1.class]

- annotationServiceImplV2: defined in file [D:\My Works\Eclipse-workspace\springboot-annotations\springboot-annotations\target\classes\com\springbootannotations\service\AnnotationServiceImplV2.class]

Action:

Consider marking one of the beans as @Primary, updating the consumer to accept multiple beans, or using @Qualifier to identify the bean that should be consumed

@Lazy 🡪> to avoid creation of bean until we autowire it or use it .

@Value – to fetch value from application.properties @Value(${key})

@PropertySource

@ConfigurationProperties

@Profile

@Scope

REST API related Annotations:

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@RestController

@RequestMapping

@GetMapping

@PostMapping

@PutMapping

@DeleteMapping

@RequestBody

@PathVariable

@RequestParam

@ControllerAdvice & @ExceptionHandler

Spring Data JPA related annotations:

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@Entity

@Table

@Column

@Transactional

Entity class relationships

@OnetoOne

@OnetoMany

@ManytoOne

@ManytoMany