

Building a REST API with Annotated Controllers

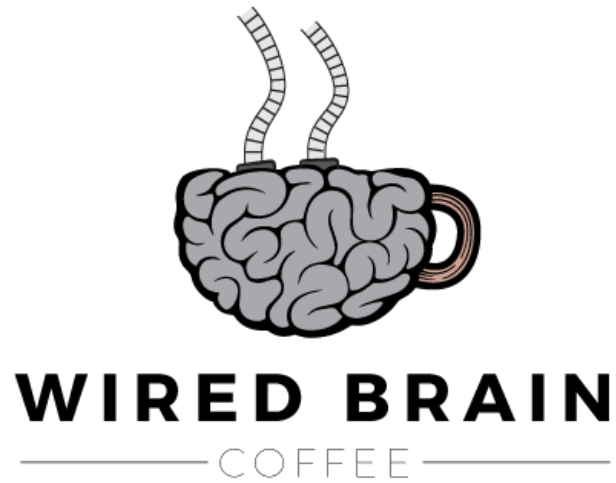


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Product Catalog

- Get all products
- Get a specific product
- Register a new product
- Update a product
- Delete a product
- Delete all products
- Events



Overview



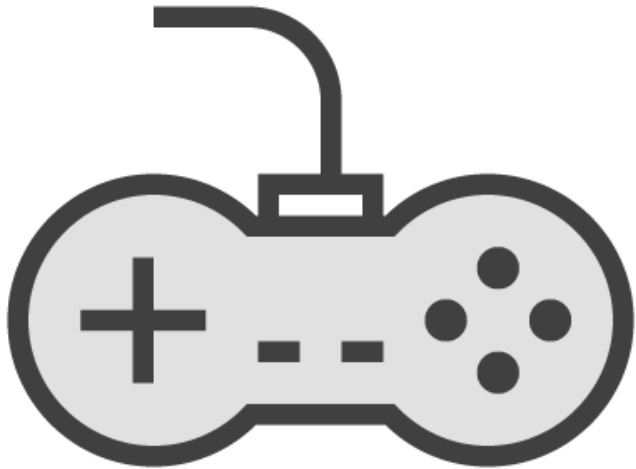
Spring WebFlux annotated controllers
Setting up the project with Spring Boot
Reactive Spring Data with MongoDB
Initializing the embedded database
Building the controller
Server-side events



Annotated Controllers



Controllers

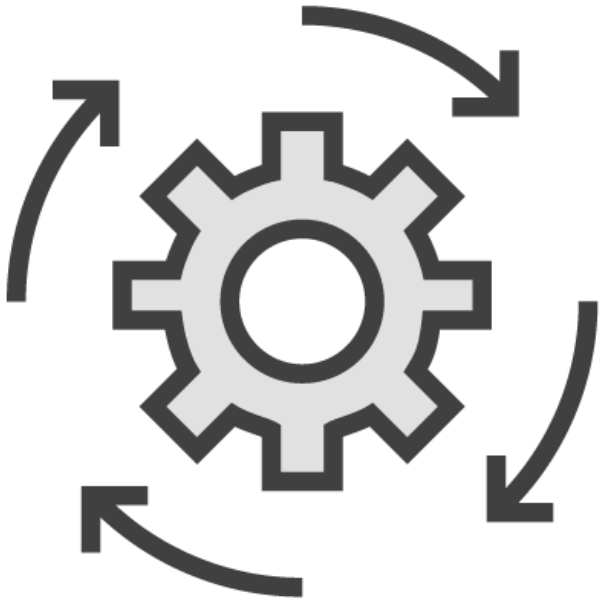


@Controller

@RestController



Request Mapping



@GetMapping

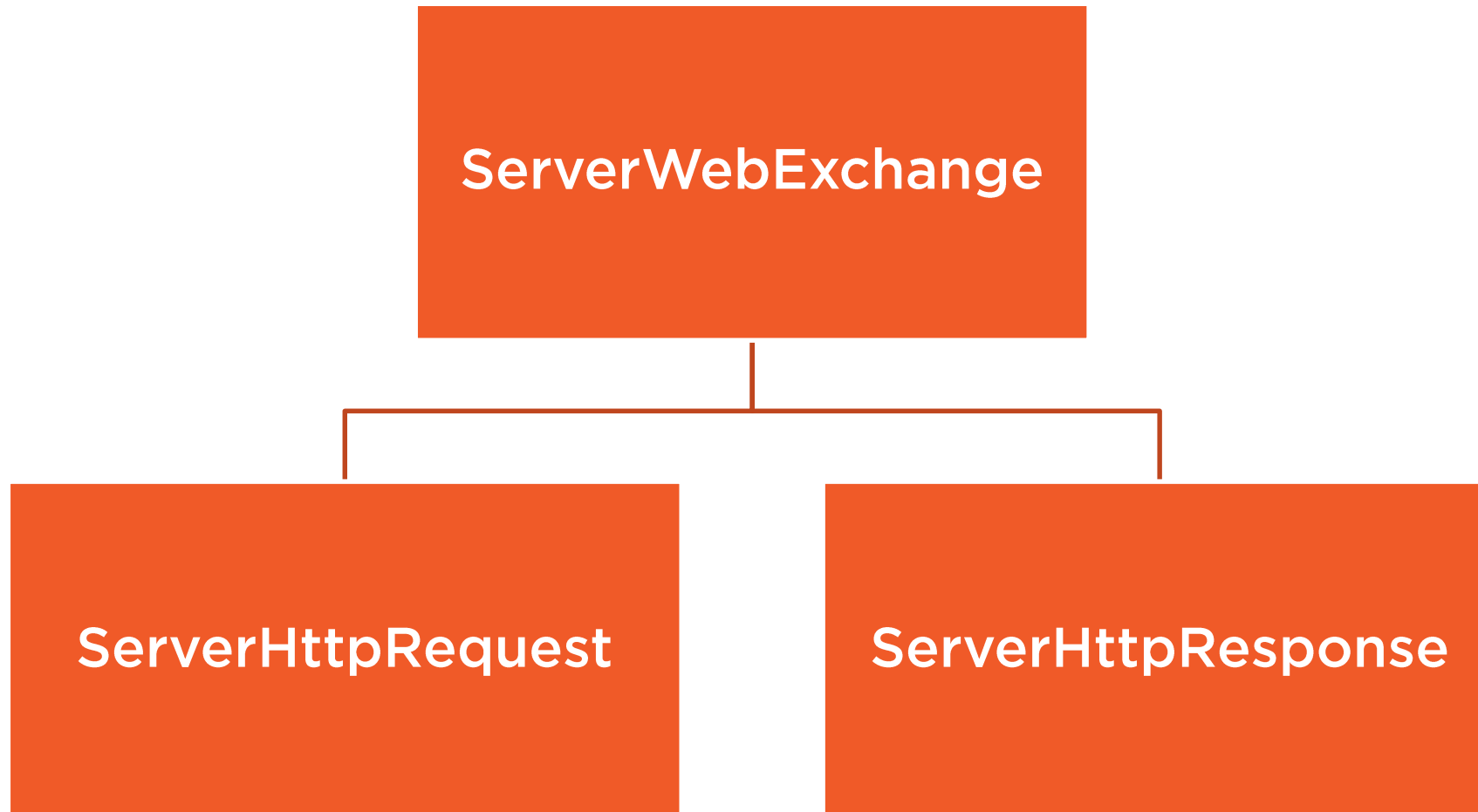
@PostMapping

@PutMapping

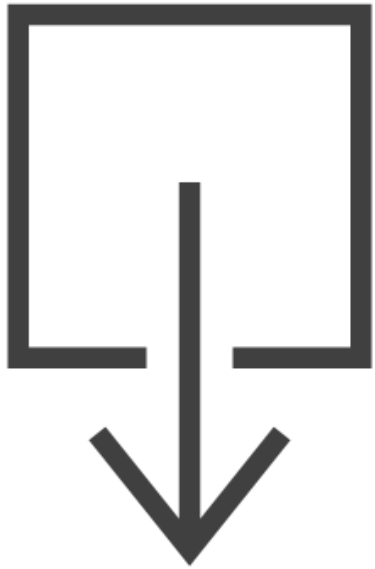
@DeleteMapping

@PatchMapping

Reactive Request and Response



Method Arguments with Reactive Support



WebSession

java.security.Principal

@RequestBody

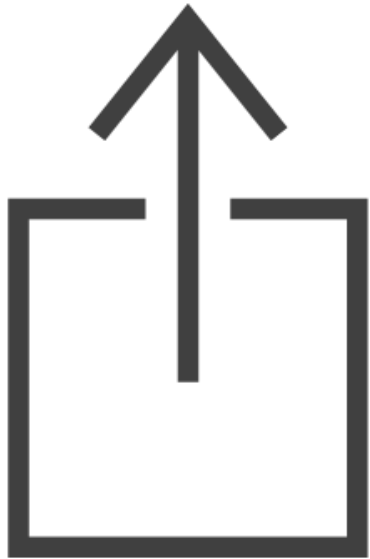
HttpEntity

@RequestPart

Reactive types are
supported for all return
values.



Return Values



ResponseEntity

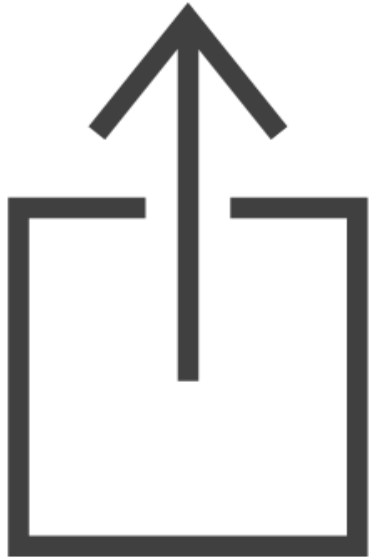
Object

ServerSentEvent

String

- @RestController
 - Mono<String>
- @Controller
 - View name

Return Values



void, Mono<Void>, or returning null

- Response handled
 - ServerHttpResponse
 - ServerWebExchange
 - @ResponseStatus
- @RestController
 - No response body
- @Controller
 - Default view name

Things to Remember



REST API with annotations

- Create
- Read
- Update
- Delete
- Server-side Events

Similar to Spring MVC

Non-blocking/asynchronous model

- Easier to scale

Spring Boot

Reactive Spring Data

