

Annotations

1. @RestController

- Combines @Controller + @ResponseBody.
 - Tells Spring to treat the class as a web controller where **every method returns a response body**, typically JSON.
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2. @Service

- Marks a class as a **service component**.
 - Used to define business logic. Spring creates an object of this class and manages it as a **Spring Bean**.
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3. @Controller

- Marks the class as a **web controller**.
 - Used in MVC architecture. Methods typically return **view names**.
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4. @Repository

- Marks the class as a **DAO (Data Access Object)** layer component.
- Used to handle database operations.
- Spring provides exception translation (e.g., SQL exceptions into Spring exceptions).

5. @Autowired

- Automatically **injects** the required dependency (like a service or repository) into a class.

6. @RequestBody

- Binds the **HTTP request body** to a method parameter in a controller.
- Mostly used with POST/PUT to accept JSON input and map it to a POJO.

7. @RequestMapping

- Maps **HTTP requests** to handler methods.
- Can be used at the class level (base URL) or method level with method type (GET, POST, etc.).

8. @GetMapping

- Shortcut for `@RequestMapping(method = RequestMethod.GET)`
- Maps a GET request.

9. @PutMapping

- Shortcut for `@RequestMapping(method = RequestMethod.PUT)`
- Maps a PUT request (used for updates).

10. `@PostMapping`

- Shortcut for `@RequestMapping(method = RequestMethod.POST)`
- Maps a POST request (used for creating data).

11. `@DeleteMapping`

- Shortcut for `@RequestMapping(method = RequestMethod.DELETE)`
- Maps a DELETE request.