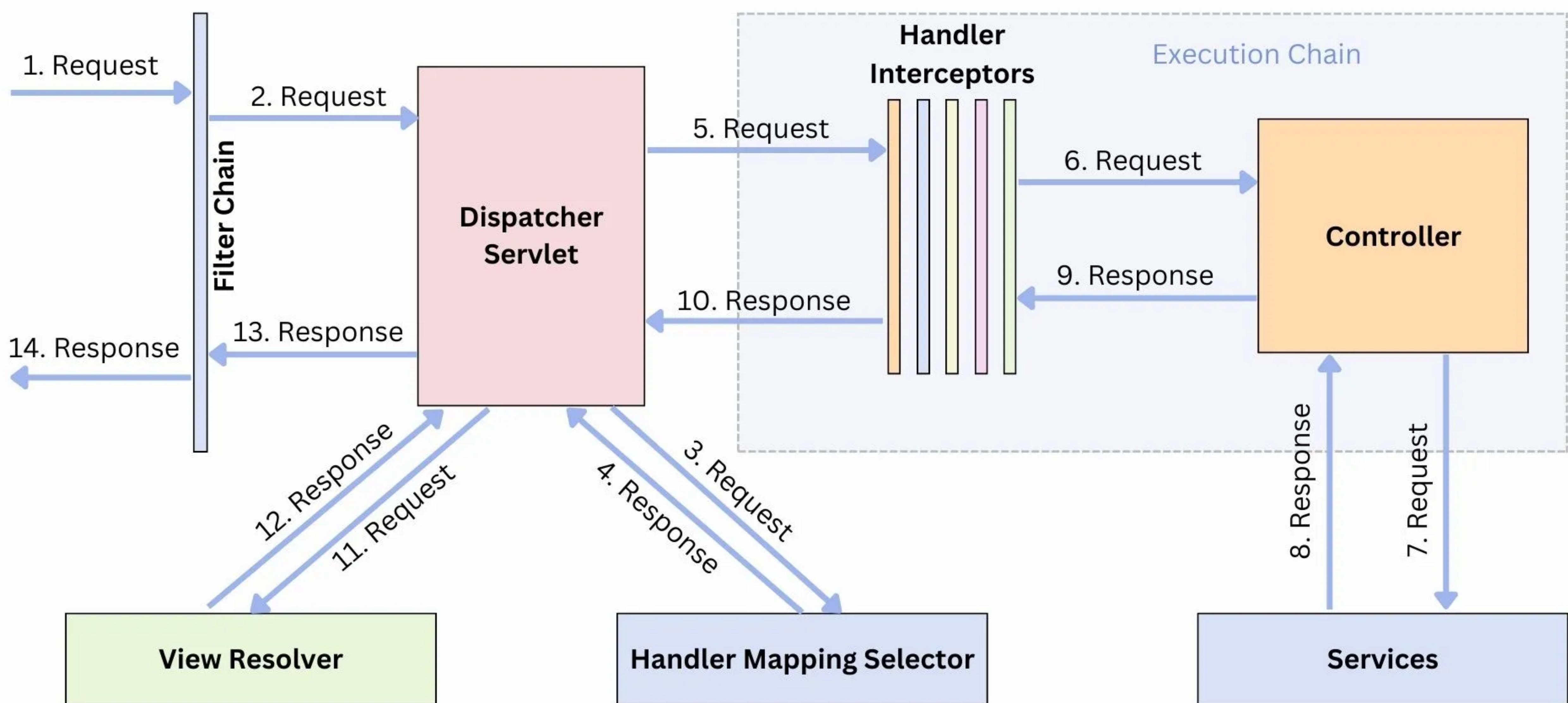


# Spring MVC Basic CheatSheet

- **Model** - application data, typically POJOs
- **View** - displays Model data, often generating frontend
- **Controller** handles requests, creates the corresponding Model, and passes it for display in the View.

In REST applications, **RestController** returns domain objects or collections directly. Usually response body is a JSON object



## Annotations

|                                                                                          |                                                                                                                                                      |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>@Controller</b>                                                                       | Marks a class as a Spring MVC controller, capable of handling HTTP requests.                                                                         |
| <b>@RequestMapping</b>                                                                   | Maps a method or class to a specific URL or pattern. Specifies which HTTP methods the method can handle.                                             |
| <b>@GetMapping</b><br><b>@PostMapping</b><br><b>@PutMapping</b><br><b>@DeleteMapping</b> | Shortcuts for mapping HTTP GET, POST, PUT, and DELETE requests, respectively, without using the @RequestMapping annotation.                          |
| <b>@RequestParam</b>                                                                     | Binds a request parameter to a method parameter.<br><br>Used to access query parameters or form data from HTTP requests.                             |
| <b>@PathVariable</b>                                                                     | Extracts values from URL path segments and binds them to method parameters.                                                                          |
| <b>@ModelAttribute</b>                                                                   | Binds a method parameter or method return value to a named model attribute. Used for populating data in the model before rendering a view.           |
| <b>@ResponseBody</b>                                                                     | Indicates that the return value of a method should be used as the HTTP response body, often used for RESTful services returning data in JSON or XML. |
| <b>@RequestBody</b>                                                                      | Binds the HTTP request body to a method parameter, typically used for receiving data in JSON or XML format.                                          |
| <b>@RestController</b>                                                                   | Combines <b>@Controller</b> and <b>@ResponseBody</b> to simplify the creation of RESTful web services.                                               |
| <b>@ExceptionHandler</b>                                                                 | Defines methods to handle exceptions thrown by the controller methods.                                                                               |
| <b>@ResponseStatus</b>                                                                   | Specifies the HTTP status code to be returned when a specific exception is thrown.                                                                   |
| <b>@SessionAttributes</b>                                                                | Specifies which model attributes should be stored in the session between requests.                                                                   |
| <b>@RequestHeader</b>                                                                    | Binds a request header value to a method parameter.                                                                                                  |
| <b>@CrossOrigin</b>                                                                      | Enables cross-origin resource sharing (CORS) for specific controller methods.                                                                        |
| <b>@ResponseStatus</b>                                                                   | Specifies the HTTP response status code and reason phrase to be returned by a controller method.                                                     |