**RESTful Web Service Resource Naming Guidelines:**

* Below are the guidelines to follow while defining a RESTful Web Service URL:
* Each resource should have a unique and specific URL.
* To get all resources, provide the resource name in plural.
* To get a specific resource, provide the resource name in plural followed with a slash and the parameter.
* To create a resource, the URL should be the resource name in plural, and the data to create the resource should be defined in the request payload (body).
* To update a resource, the URL should be the resource name in plural, and the updated data should be sent in the payload.
* To delete a resource, the URL should be the resource name in plural followed by a slash and the specific resource identifier.
* If the resource name contains multiple words, use hyphens instead of underscores. For example, if the resource is "menu item", define the URL as "menu-item".

**Example with Country as the Resource:**

For the resource “country”, here are the RESTful Web Service URL and method combinations:

* GET <http://sample.api.com/app-name/countries>  
  This is used to get all countries. Annotation used: @GetMapping
* GET http://sample.api.com/app-name/countries/{code}  
  This is used to get a specific country by code. Annotation used: @GetMapping("/{id}")
* POST <http://sample.api.com/app-name/countries>  
  This is used to create a new country. The country data should be sent in the request body. Annotation used: @PostMapping
* PUT <http://sample.api.com/app-name/countries>  
  This is used to update an existing country. The updated country data should be included in the request body. Annotation used: @PutMapping
* DELETE http://sample.api.com/app-name/countries/{code}  
  This is used to delete a specific country by code. Annotation used: @DeleteMapping("/{id}")

For a particular resource, the base URL should remain consistent across all HTTP methods. Therefore, in the CountryController class, it is a best practice to define the base path at the class level using the following annotation:

@RequestMapping("/countries")

**Method-Specific Annotation Definitions:**

* To get all resources:  
  @GetMapping
* To get a specific resource:  
  @GetMapping("/{id}")
* To create a resource:  
  @PostMapping  
  Note: The resource data must be sent in the body of the request.
* To update a resource:  
  @PutMapping  
  Note: The updated data must be sent in the body of the request.
* To delete a resource:  
  @DeleteMapping("/{id}")