

More and more applications these days use the Client-Server Architecture. The Client or the Front-End, needs to communicate to a Server or the Back-End to save or retrieve the data. This communication is established with the help of the HTTP protocol, via an API.

A REST API is an Application Programming Interface that follows the REST architecture constraints. It is basically a convention for building these HTTP Web Services.

In this article, we will see how to build a REST API using Java and Spring Boot and Database.

Use case

We will take a pretty simple example for this tutorial. We want to build a backend application for Product management. So, a simple database schema will look like this.

Table: Product

Columns:

id: Long
product_category_id: Table
description: String
price: BigDecimal

Table: Product_category

Columns:

id: Long
description: String

Our Rest API will expose these end points

ENDPOINT	HTTP	ACTIONS	STATUS CODE
/products	POST	Create a new product	201
/products	GET	Retrieve all products	200
/products/:id	GET	Retrieve one product by ID	200
/products/update/:id	PUT	Update a product entirely	200
/products/:id	DELETE	Delete a product by ID	204
/products	DELETE	Delete all products	204