INSERTAR PRODUCTO

Método HTTP: POST

URL: http://localhost:8080/inventario/restws/productos/insertar

Trama que recibe: JSON

```java
@Path("insertar")
@POST
// consumes es para el formato que recibe
@Consumes(MediaType.APPLICATION_JSON)
public void insertarP(Producto producto) {

    productos.add(producto);
    System.out.println("producto insertado: "+producto);

}
```

Postman interface:

- Home | Workspaces ∨ | API Network | Upgrade ∨
- Overv ✕ | GET clientes/b | POST clientes, ● | GET clientes/r | GET inventario | POST http://lo ● | No environment ∨
- HTTP http://localhost:8080/reto38/restws/inventario/insertar | Save ∨ | Share
- POST ∨ | http://localhost:8080/reto38/restws/inventario/insertar | Send ∨
- Docs | Params | Authorization | Headers (8) | Body ● | Scripts | Tests | Settings | Cookies
- ○ none | ○ form-data | ○ x-www-form-urlencoded | ● raw | ○ binary | ○ GraphQL | JSON ∨ | Beautify
- Body | Cookies | Headers (3) | Test Results | 204 No Content · 362 ms · 112 B
- Raw ∨ | ▷ Preview | Visualize ∨
- 1

Tomcat console:

```
24-Nov-2025 09:20:38.145 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying
web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\krakedev]
24-Nov-2025 09:20:38.156 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
 of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\krakede
v] has finished in [11] ms
24-Nov-2025 09:20:38.156 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying
web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\manager]
24-Nov-2025 09:20:38.176 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
 of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\manager
] has finished in [20] ms
24-Nov-2025 09:20:38.176 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying
web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\ROOT]
24-Nov-2025 09:20:38.188 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
 of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\ROOT] h
as finished in [12] ms
24-Nov-2025 09:20:38.190 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler
 ["http-nio-8080"]
24-Nov-2025 09:20:38.206 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [254
5] milliseconds
24-Nov-2025 09:20:44.963 WARNING [http-nio-8080-exec-2] org.glassfish.jersey.server.wadl.WadlFeature.c
onfigure JAXBContext implementation could not be found. WADL feature is disabled.
Inventario inicial cargado con 5 productos.
producto insertado: Producto [codigo=LIBRO438J, nombre=Arte de la guerra, categoria=com.krekedev.inven
tario.entidades.Categoria@663fec, precio=19.99, stock=10]
```

ACTUALIZAR PRODUCTO

Método HTTP: PUT

URL: http://localhost:8080/inventario/restws/productos/actualizar

Trama que recibe: JSON

```
    @Path("actualizar")
    @PUT
    @Consumes(MediaType.APPLICATION_JSON)
    public void actualizarP(Producto producto) {
```

```java
        System.out.println("producto actualizado: "+producto);


    }
```

Postman UI

Home Workspaces ∨ API Network

Overview GET cliente ✕ POST clientes ● GET clientes/n GET inventario PUT inventario ● + ∨ No environment ∨

reto38 / inventario/insertar   Save ∨   Share 🔗

PUT ∨   http://localhost:8080/reto38/restws/inventario/actualizar   Send ∨

Docs Params Authorization Headers (8) Body ● Scripts Tests Settings   Cookies

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON ∨   Schema Beautify

```json
1  {
2    "codigo": "LIBRO438J",
3    "nombre": "Arte de la guerra",
4    "categoria": {
5       "codigo": 5,
6       "nombre": "libros"
7    },
8    "precio": 19.99,
9    "stock": 10
10  }
11
```

Body Cookies Headers (3) Test Results 🕐   204 No Content · 8 ms · 112 B 🌐 Save Response ⚬⚬⚬

Cloud View Q Console   Runner Vault

Tomcat console

```
of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\krakede
v] has finished in [11] ms
24-Nov-2025 09:20:38.156 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying
web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\manager]
24-Nov-2025 09:20:38.176 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
 of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\manager
] has finished in [20] ms
24-Nov-2025 09:20:38.176 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying
web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\ROOT]
24-Nov-2025 09:20:38.188 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
 of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\ROOT] h
as finished in [12] ms
24-Nov-2025 09:20:38.190 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler
 ["http-nio-8080"]
24-Nov-2025 09:20:38.206 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [254
6] milliseconds
24-Nov-2025 09:20:44.963 WARNING [http-nio-8080-exec-2] org.glassfish.jersey.server.wadl.WadlFeature.c
onfigure JAXBContext implementation could not be found. WADL feature is disabled.
Inventario inicial cargado con 5 productos.
producto insertado: Producto [codigo=LIBRO438J, nombre=Arte de la guerra, categoria=com.krekedev.inven
tario.entidades.Categoria@663fec, precio=19.99, stock=10]
Inventario inicial cargado con 5 productos.
producto actualizado: Producto [codigo=LIBRO438J, nombre=Arte de la guerra, categoria=com.krekedev.inv
entario.entidades.Categoria@41e77803, precio=19.99, stock=10]
```

RECUPERAR TODOS

Método HTTP: GET

URL: http://localhost:8080/inventario/restws/productos/consultar

Trama que retorna: JSON

```java
@Path("recuperarTodos")
@GET
@Produces(MediaType.APPLICATION_JSON)
public ArrayList<Producto> recuperarTodosP() {
    ArrayList<Producto> productos_retorno=productos;
    return productos_retorno;

}
```

⌂ Overview | GET clientes/busca | POST clientes/insi ● | GET clientes/meto | GET clientes/actu ● | + ∨   ⊠ No environment ∨

HTTP testkrakedev / **clientes/actualizar**   💾 Save ∨   Share ⊘

| GET ∨ | http://localhost:8080/reto38/restws/inventario/recuperarTodos | **Send** ∨ |

≡ Docs   **Params**   Authorization   Headers (8)   Body ●   Scripts   Tests   Settings   **Cookies**

Query Params

Key	Value	Description	••• Bulk Edit
Key	Value	Description	

Body   Cookies   Headers (5)   Test Results   🕐   200 OK · 1.08 s · 748 B · ⊕ | 🔳 Save Response •••

{ } JSON ∨   ▷ Preview   🖼 Visualize   ∨   ⇥ ≡ 🔍 ⧉ 🔗

```
 1  [
 2      {
 3          "codigo": "LIMP01",
 4          "nombre": "Limpiamax",
 5          "categoria": {
 6              "codigo": 1,
 7              "nombre": "Limpieza"
 8          },
 9          "precio": 9.99,
10          "stock": 50
11      },
12      {
13          "codigo": "ENTR01",
14          "nombre": "PlayBox",
15          "categoria": {
16              "codigo": 2,
17              "nombre": "Entretenimiento"
18          },
19          "precio": 299.99,
20          "stock": 10
21      },
22      {
23          "codigo": "ALIM01",
24          "nombre": "Arroz Premium",
25          "categoria": {
26              "codigo": 3,
27              "nombre": "Alimentación"
28          },
29          "precio": 1.99,
30          "stock": 200
31      },
32      {
33          "codigo": "ALIM02",
34          "nombre": "Aceite Vegetal",
```

INSERTAR CATEGORIA

Método HTTP: POST

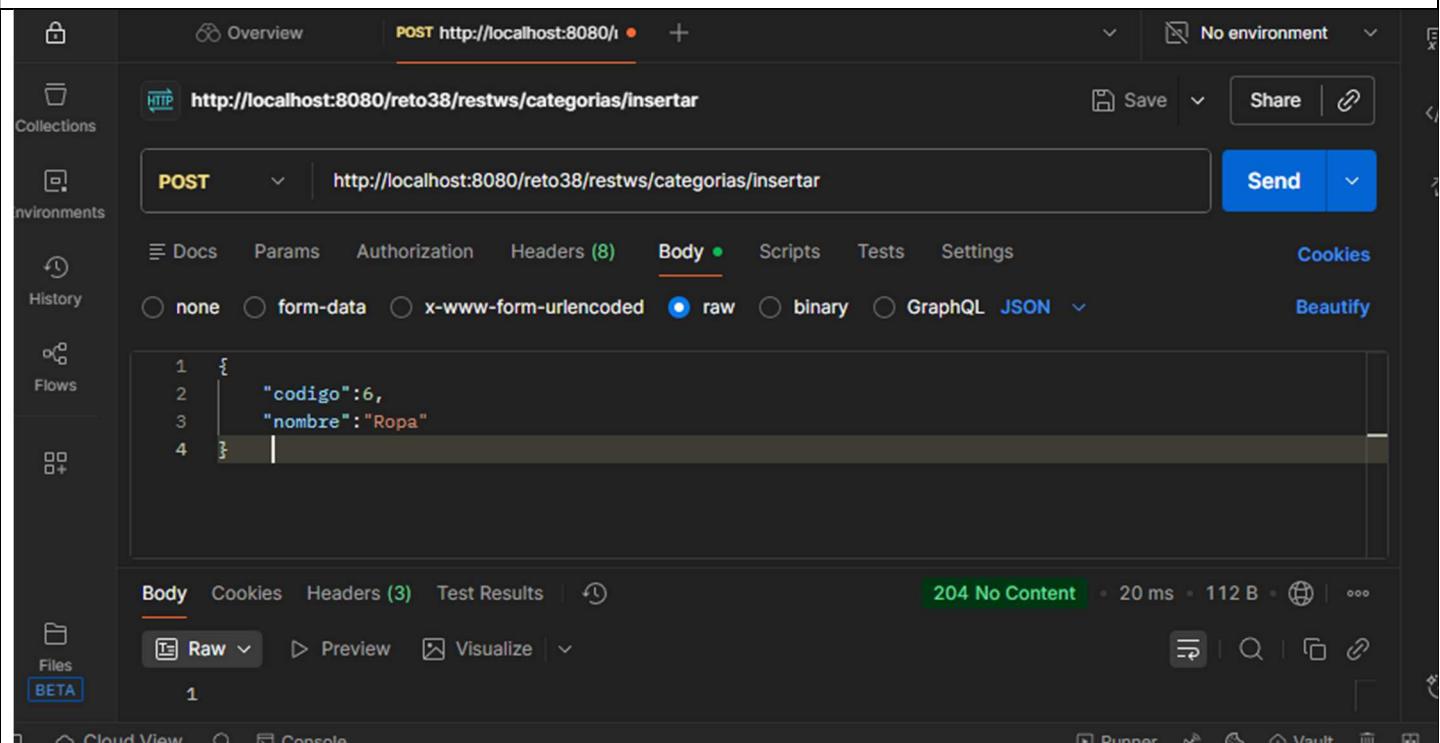URL: http://localhost:8080/inventario/restws/categorias/insertar

Trama que retorna: JSON

```
    @Path("insertar")
    @POST
    @Consumes(MediaType.APPLICATION_JSON)
    public void insertarCat(Categoria categoria) {
```

```java
        System.out.println("insertar categoria: " +categoria);

    }
```


Overview   POST http://localhost:8080/   +   No environment

http://localhost:8080/reto38/restws/categorias/insertar   Save   Share

POST   http://localhost:8080/reto38/restws/categorias/insertar   Send

Docs   Params   Authorization   Headers (8)   Body   Scripts   Tests   Settings   Cookies

none   form-data   x-www-form-urlencoded   raw   binary   GraphQL   JSON   Beautify

```json
1   {
2       "codigo":6,
3       "nombre":"Ropa"
4   }
```

Body   Cookies   Headers (3)   Test Results   204 No Content · 20 ms · 112 B

Raw   Preview   Visualize

1

Cloud View   Console   Runner   Vault

Tomcat   ×   +

```
of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\docs] h
as finished in [18] ms
24-Nov-2025 09:47:23.349 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying
web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\krakedev]
24-Nov-2025 09:47:23.358 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
 of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\krakede
v] has finished in [9] ms
24-Nov-2025 09:47:23.358 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying
web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\manager]
24-Nov-2025 09:47:23.378 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
 of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\manager
] has finished in [20] ms
24-Nov-2025 09:47:23.380 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying
web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\ROOT]
24-Nov-2025 09:47:23.391 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment
 of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 11.0\webapps\ROOT] h
as finished in [11] ms
24-Nov-2025 09:47:23.393 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler
 ["http-nio-8080"]
24-Nov-2025 09:47:23.410 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [256
6] milliseconds
24-Nov-2025 09:47:33.021 WARNING [http-nio-8080-exec-1] org.glassfish.jersey.server.wadl.WadlFeature.c
onfigure JAXBContext implementation could not be found. WADL feature is disabled.
insertar categoria: Categoria [codigo=6, nombre=Ropa]
```