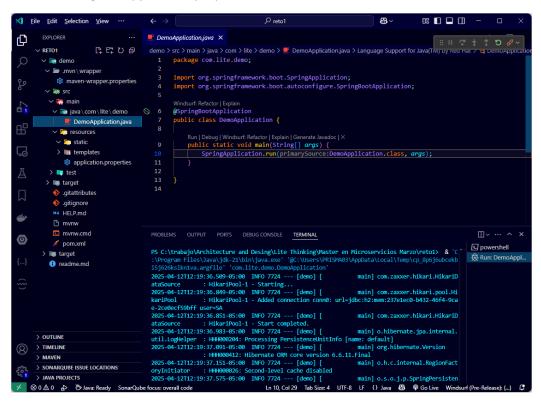
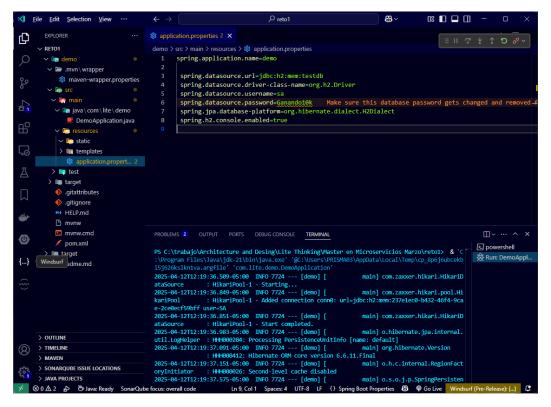
1. Crear Provecto



2. Configurar application.properties



3. Crea la entidad producto



4 Crear un repositirio

```
Product.java 1 • ProductRepositoryPort.java X ProductContro
  EXPLORER
        다 타 간 🗗 > java > com > lite > demo > domain > ports > out > 🖳 ProductRepositoryPort.java > Language Support 101 วลงล
∨ RETO1
                                package com.lite.demo.domain.ports.out;
 🗸 🚾 demo
  ✓ Imvn\wrapper
                                import org.springframework.data.jpa.repository.JpaRepository;
     maven-wrapper.p...
  import com.lite.demo.domain.model.Product;
    🗸 🖙 main
    ∨ 🔃 java\com\... 🌘
                                Windsurf: Refactor | Explain
     > IIII application S 7
                                 public interface ProductRepositoryPort extends JpaRepository<Product, Long> {

✓  domain

✓ Image model

          Product... 1

✓ Image ports\out

          ProductRep...
     > 🖿 infra
    DemoApplicati...

✓ resources

✓ Image: Static

      > Im templates
        applicatio... 2
```

```
ProductController.java 1 X ■ GlobalExceptionHandler.java 1 • ■ ProductNotFoundException.java 1 ▷ ∨ 🗓 …
                                                                @RestController
 .mvn\wrapper
                                                                @RequestMapping("/products")
  maven-wrapper.properties
                                                                public class ProductController {
                                                                      <code>@Autowired</code> Remove this field injection and use constructor injection instead.
private ProductRepositoryPort productRepository;
    iava\com\lite\demo

∨ Image application

        CRUDProduct.iava
                                                                      @GetMapping
public List<Product> getAllProducts() {
    return productRepository.findAll();
   ∨ ≔ domain
         Product.java
       ports\out
                                                                      Windsurf: Refactor | Explain | Generate Javadoc | × @GetMapping("/{id}")
           ProductRepositoryPort.java
                                                                       public Product getProductById(@PathVariable Long id) {
                                                                            {\tt return\ productRepository.findById}(id).{\tt orElseThrow}(() {\tt -> \ new}

■ GlobalExceptionHandler.java

                                                                             ProductNotFoundException(id));
                                                                      \label{thm:windsurf:Refactor} $$ Windsurf: Refactor | Explain | Generate Javadoc | \times $$ @PostMapping $$ public Product createProduct(@RequestBody Product product) $$ $$ $$ $$
       DemoApplication.java
                                                                         return productRepository.save(product);
    tatic 📻
   > 📭 templates
     application.properties
 test
                                                                       @PutMapping("/{id}")
                                                                       public Product updateProduct(@PathVariable Long id, @RequestBody Product productDetails)
Product product = productRepository.findById(id).orElseThrow(() -> new ProductNotFoundEx
product.setName(productDetails.getName());
 target
  🎨 .gitattributes
  .gitignore
                                                                           product.setPrice(productDetails.getPrice());
 ## HELP.md
                                                                            product.setQuantity(productDetails.getQuantity());
                                                                             return productRepository.save(product);
 / pom.xml
 target
                                                                       Windsurf: Refactor | Explain | Generate Javadoc | × @DeleteMapping("/{id}")
readme.md
                                                                        public String deleteProduct(@PathVariable Long id) {
    Product product = productRepository.findById(id).orElseThrow(() -> new ProductNotFoundException(id));
                                                                            productRepository.delete(product);
return "Product " + id + " deleted successfully!";
 NARQUBE ISSUE LOCATIONS
VA PROJECTS
```

package com.lite.demo.infra.rest;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired; import org.springframework.web.bind.annotation.DeleteMapping; import org.springframework.web.bind.annotation.GetMapping; import org.springframework.web.bind.annotation.PathVariable; import org.springframework.web.bind.annotation.PostMapping; import org.springframework.web.bind.annotation.PutMapping; import org.springframework.web.bind.annotation.RequestBody; import org.springframework.web.bind.annotation.RequestMapping; import org.springframework.web.bind.annotation.RequestMapping; import org.springframework.web.bind.annotation.RequestController;

import com.lite.demo.domain.model.Product; import com.lite.demo.domain.ports.out.ProductRepositoryPort;

```
import com.lite.demo.infra.exception.ProductNotFoundException;
```

```
@RestController
@RequestMapping("/products")
public class ProductController {
  @Autowired
  private ProductRepositoryPort productRepository;
  @GetMapping
  public List<Product> getAllProducts() {
    return productRepository.findAll();
  }
  @GetMapping("/{id}")
  public Product getProductById(@PathVariable Long id) {
    return productRepository.findById(id).orElseThrow(() -> new
    ProductNotFoundException(id));
  }
  @PostMapping
  public Product createProduct(@RequestBody Product product) {
  return productRepository.save(product);
  }
  @PutMapping("/{id}")
  public Product updateProduct(@PathVariable Long id, @RequestBody Product productDetails) {
  Product product = productRepository.findById(id).orElseThrow(() -> new
ProductNotFoundException(id));
    product.setName(productDetails.getName());
    product.setPrice(productDetails.getPrice());
    product.setQuantity(productDetails.getQuantity());
    return productRepository.save(product);
```

```
@DeleteMapping("/{id}")
public String deleteProduct(@PathVariable Long id) {
    Product product = productRepository.findById(id).orElseThrow(() -> new
    ProductNotFoundException(id));
    productRepository.delete(product);
    return "Product " + id + " deleted successfully!";
}
```

}

6. Excepciones

```
demo > src > main > java > com > lite > demo > infra > exception > 
GlobalExceptionHandlerjava > Language Support for Java(
package com_lite_demo.infra.exception; File path "demo\src\main\java\com\lite\demo\infra\"
File path "demo\src\main\java\com\lite\demo\infra\"
RETO1

✓ Imvn\wrapper

      mayen-wrapper.properties
                                                                                   import org.springframework.http.HttpStatus;
import org.springframework.web.bind.annotation.ExceptionHandler;
import org.springframework.web.bind.annotation.ResponseStatus;
import org.springframework.web.bind.annotation.RestControllerAdvice;
                                                                                     Windsurf: Refactor | Explain
@RestControllerAdvice
public class GlobalExceptionHandler {
             CRUDProduct.java

✓ I domain

✓ III model

                Product.java
                                                                                           Windsurf Refactor | Explain | Generate Javadoc | X

@ExceptionHandler(ProductNotFoundException.class)

@ResponseStatus(HttpStatus.NDT_FOUND)

public String handleProductNotFoundException(ProductNotFoundException ex) {

    return ex.getMessage();

}

✓ Image ports \ out

               ProductRepositoryPort.java
         ■ GlobalExceptionHandler.java 1
■ ProductNotFoundException.ja... 1
          v ា rest
           DemoApplication.java

✓ □ static

        > III templates
          application.properties
    > 📑 test
   > 🐼 target
       .gitattributes
                                                                         PROBLEMS 3 OUTPUT PORTS DEBUG CONSOLE TERMINAL
      mvnw.cmd
                                                                      OPS C:\trabajo\Architecture and Desing\Lite Thinking\Master en Microservicios Marzo\reto1>
      Imx.mog 🔌
 > 🕼 target
    readme.md
```

```
>> src > main > java > com > lite > demo > infra > exception > 
ProductNotFoundException; File path "demo\src\main\java\com\lite\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\life\demo\li
RETO1

∨ I mvn\wrapper

                                                                                                                                                                                                                                          Windsuff Refactor | Explain

public class ProductNotFoundException extends RuntimeException{
public ProductNotFoundException(long id) {
    super("Product not found with id: " + id);
}
                   maven-wrapper.properties

✓ iava\com\lite\demo

                   ✓ I application

CRUDProduct.java
                       v 🛅 model

✓ Imports\out

                                             ProductRepositoryPort.java
                      ∨ 📨 infra

✓ m exception

                                DemoApplication.java

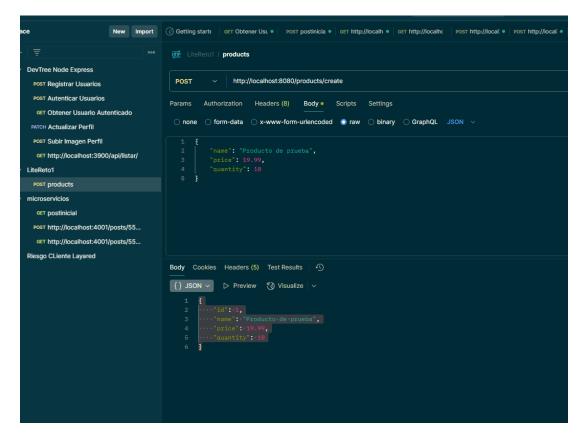
✓ resources

√ m static

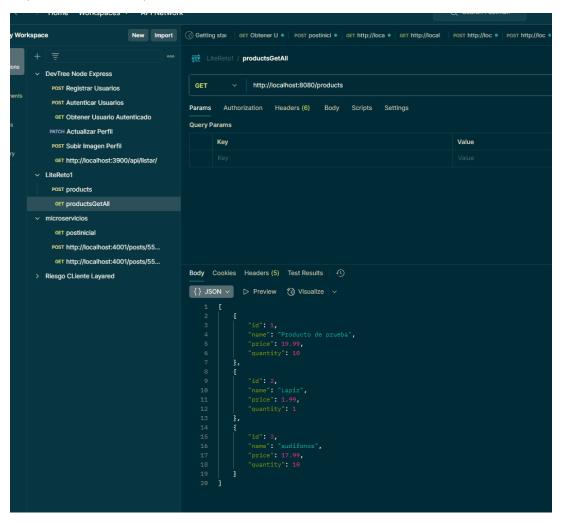
                      > lim templates
                                application.properties
           > 📭 test
       > 🐻 target
                   gitattributes
                                .gitignore
                                                                                                                                                                                                                 PROBLEMS 3 OUTPUT PORTS DEBUG CONSOLE TERMINAL
```

7 probar microservicios

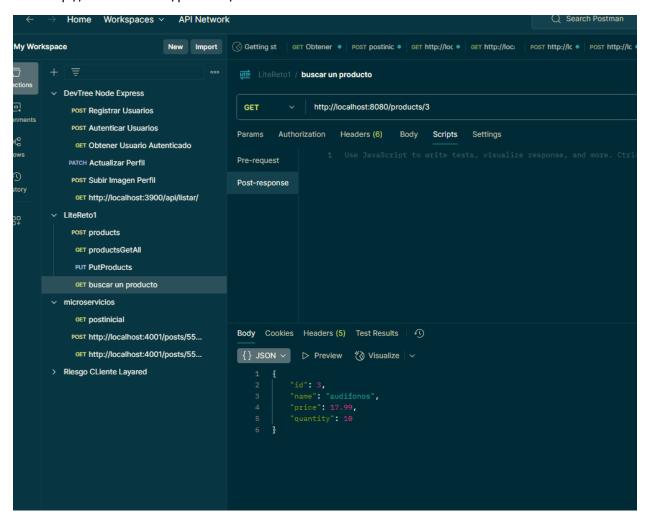
Post:



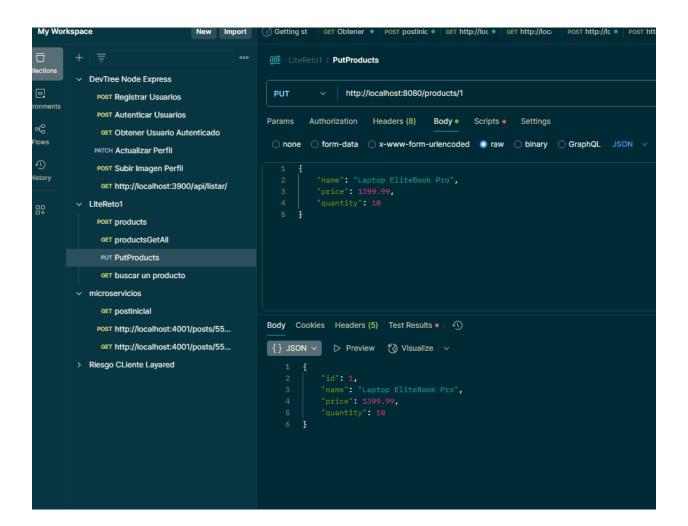
http://localhost:8080/products

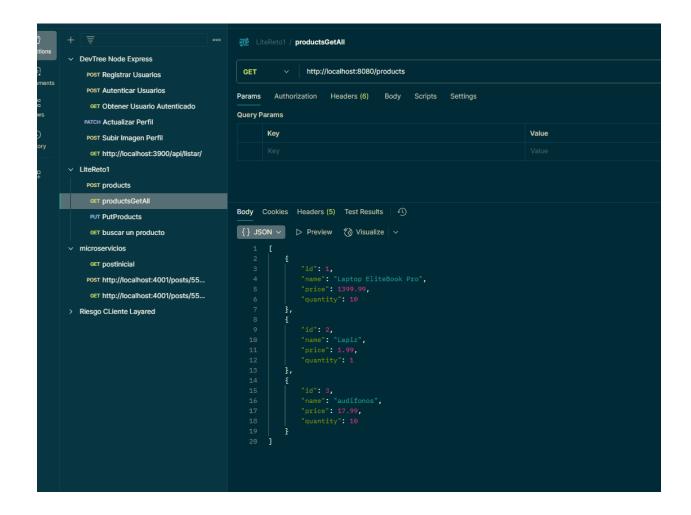


Get: http://localhost:8080/products/3

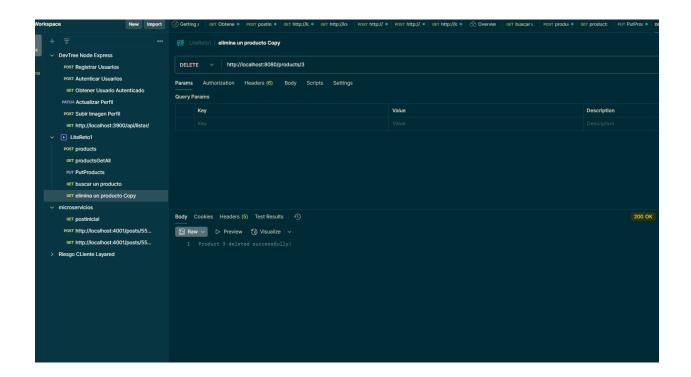


Put: http://localhost:8080/products/1





DELETE http://localhost:8080/products/3



8. Empaguetar:



9. Lanar microsrevicio desde consola

```
| Company | Comp
```

