

EcoTrack — Entrega Sprint 2 (Java Advanced)

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Links de Entrega

- GitHub: <https://github.com/davivsouza/ecotrack-oracle-api-full>

Evolução Sprint 2

Implementação do HATEOAS Nível 3, refatoração de código, documentação completa e gestão de configuração no GitHub.

Padrões de Projeto Implementados

Repository Pattern, Service Layer Pattern, DTO Pattern, Converter Pattern e Builder Pattern.

Configurações Especiais

Conversão UUID ↔ RAW(16) e validações com @NotBlank, @Email e @Valid.

Documentação Adicional

Arquitetura, DER, Classes e Coleção Postman organizadas em 'documentos/' e 'postman/'.

Padrão REST e HATEOAS

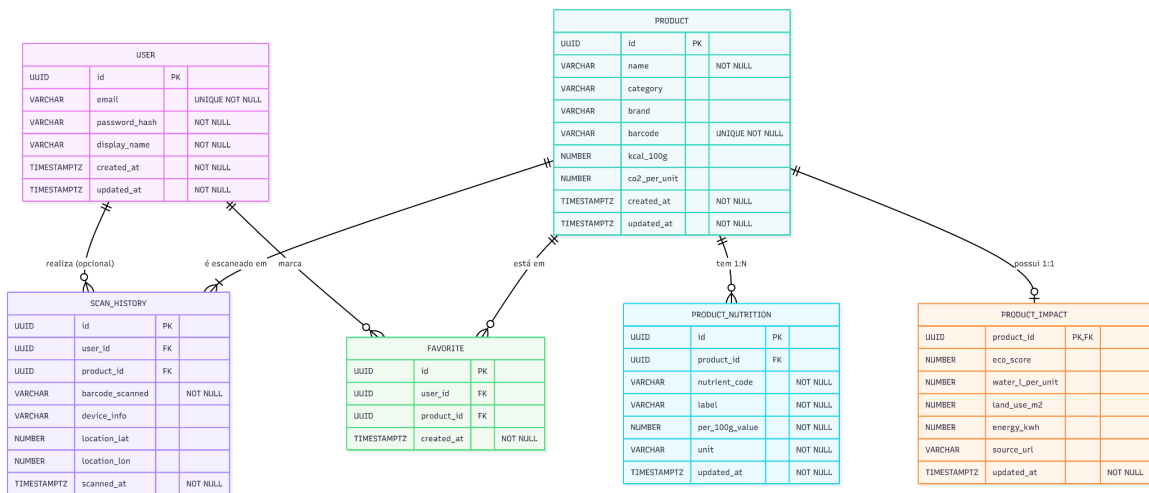
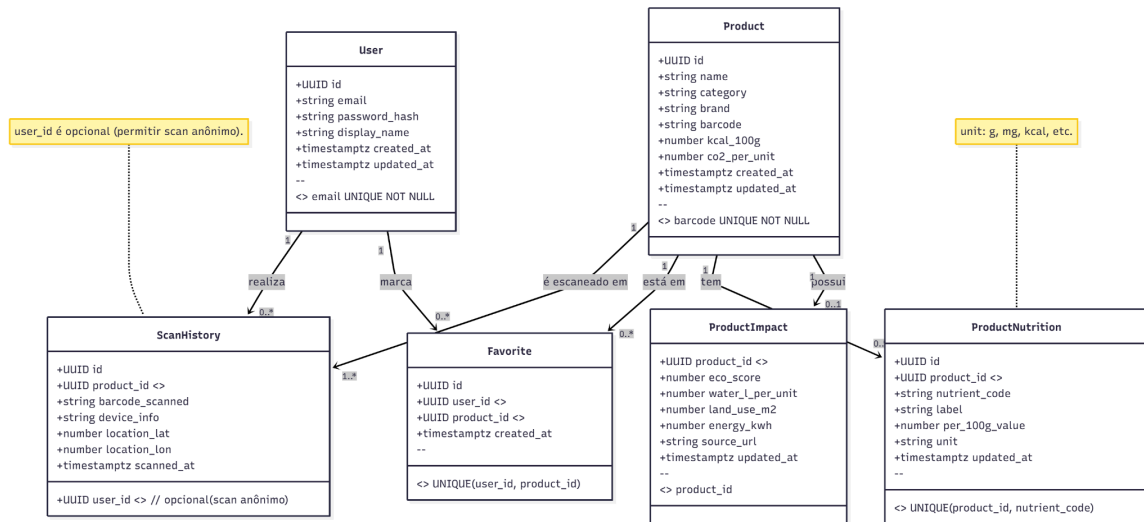
A aplicação está no nível 3 do modelo de maturidade de Richardson, com links hipermidiáticos que permitem navegação dinâmica entre recursos.

Endpoints Principais

Módulo	Endpoints
Produtos	GET /api/products; GET /api/products/{id}; GET /api/products/barcode/{code}; GET /api/products/category/{name}; GET /api/products/search?q=...; POST

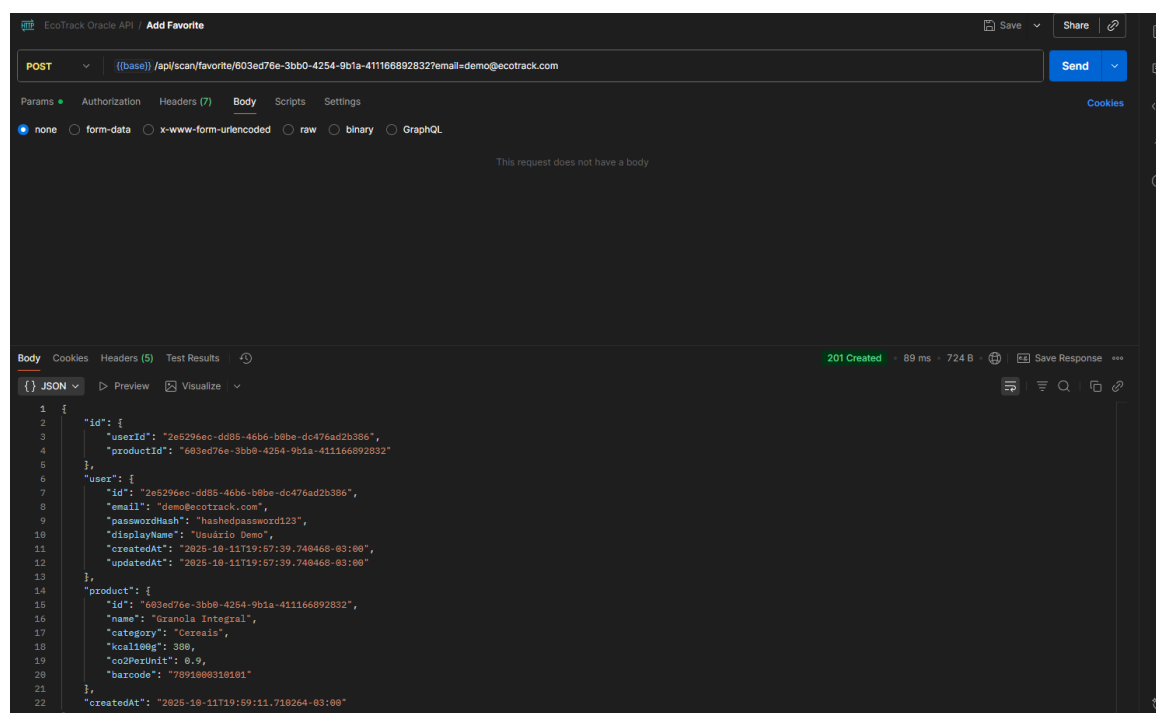
	/api/products; PUT /api/products/{id}; DELETE /api/products/{id}
Usuários	POST /api/users; GET /api/users/by-email?email=...; GET/PUT/DELETE /api/users/{id}
Escaneios	POST /api/scan (email, barcode); GET /api/scan/history?email=...
Favoritos	POST /api/scan/favorite/{productId}?email=...; DELETE /api/scan/favorite/{productId}?email=...; GET /api/scan/favorites?email=...
Impacto	GET /api/impact/{productId}; POST /api/impact
Nutrição	GET /api/nutrition/{productId}; POST /api/nutrition; DELETE /api/nutrition/{id}

UML e Diagrama de Entidade-Relacionamento

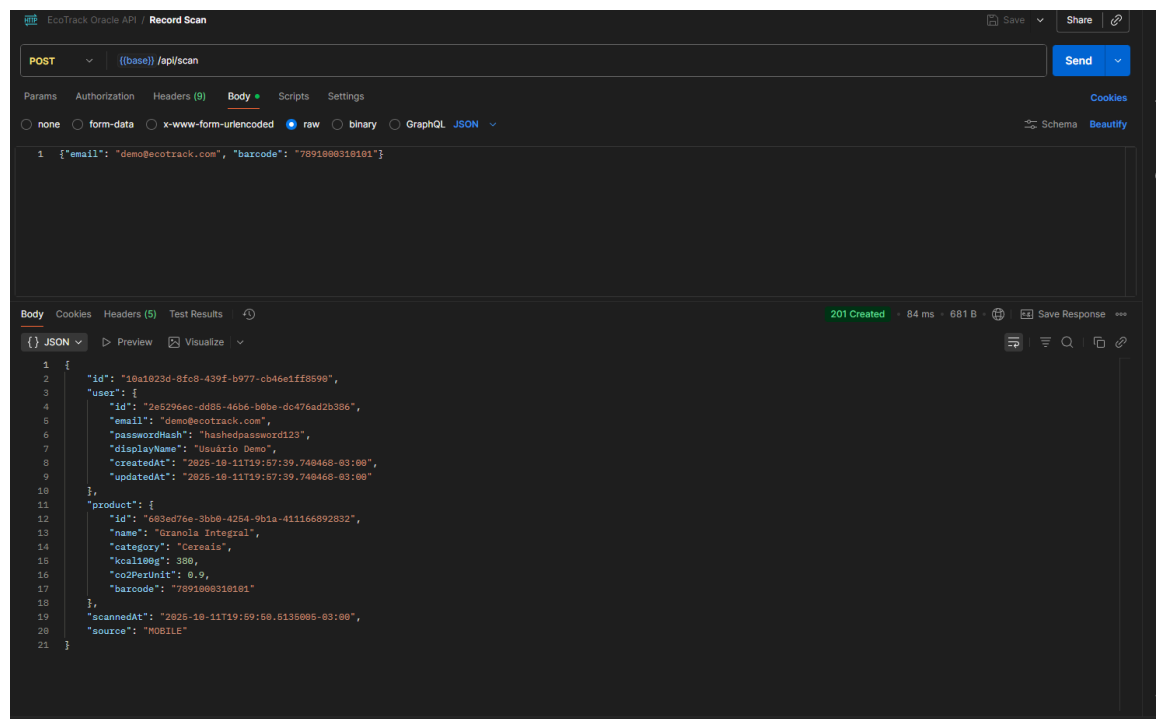


TESTES

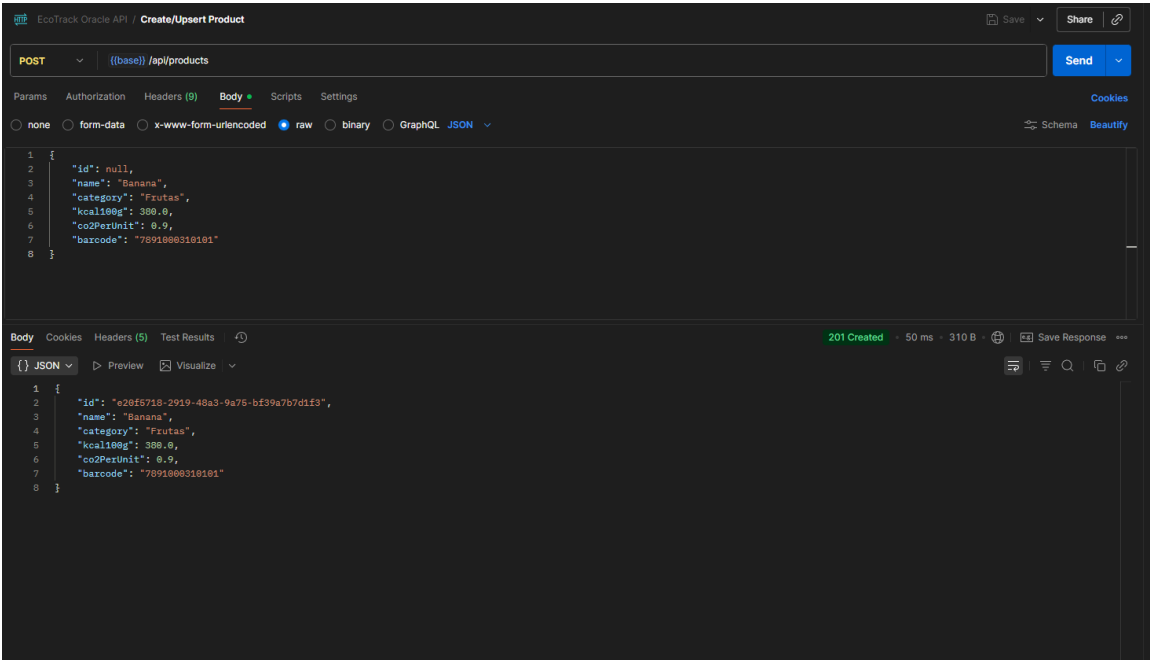
ADD FAVORITES



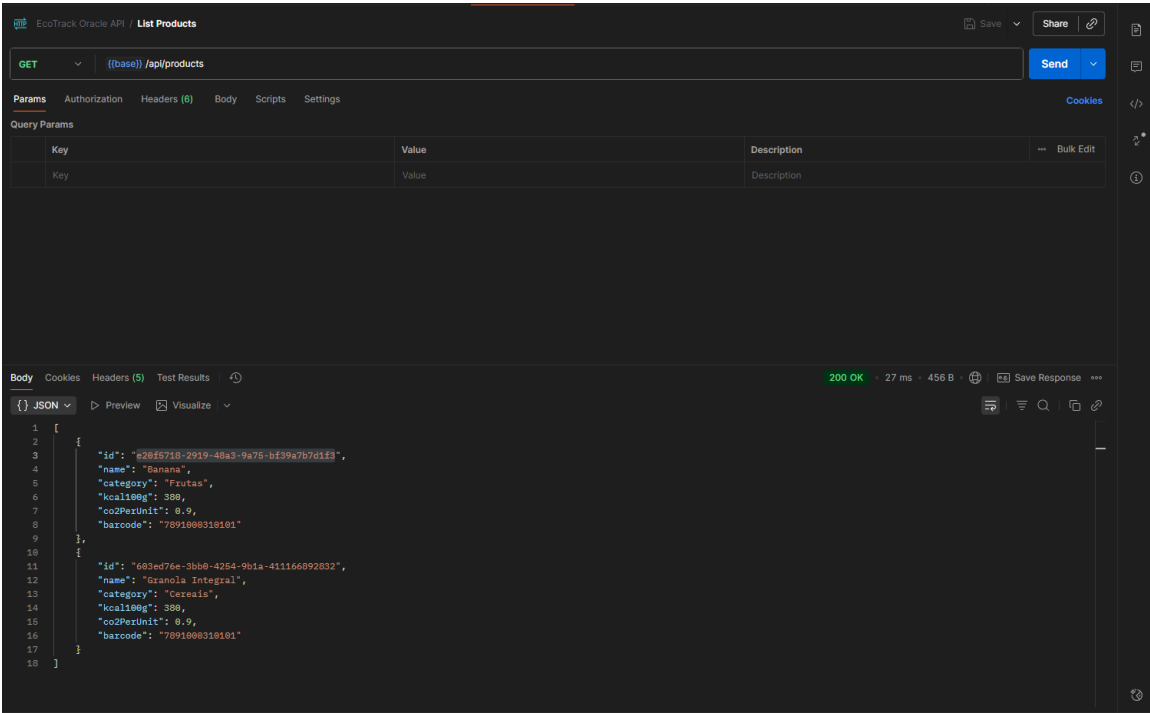
RECORD SCAN



CREATE/UPSERT PRODUCT



LIST PRODUCTS



LIST USERS

EcoTrack Oracle API / List Users

GET `{{base}} /api/users`

Params Authorization Headers (6) Body Scripts Settings

Query Params

Key	Value	Description
Key	Value	Description

Body Cookies Headers (5) Test Results

{ } JSON Preview Visualize

```
1 [
2   {
3     "id": "2e5296ec-dd85-46b6-b0be-dc476ad2b386",
4     "email": "demo@ecotrack.com",
5     "passwordHash": "hashedpassword123",
6     "displayName": "Usuário Demo",
7     "createdAt": "2025-10-11T19:57:39.748468-03:00",
8     "updatedAt": "2025-10-11T19:57:39.748468-03:00"
9   }
10 ]
```

CREATE USER

EcoTrack Oracle API / Create User

POST `{{base}} /api/users` Send

Params Authorization Headers (9) Body Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON

Schema Beautify

```
1 {
2   "id": null,
3   "email": "demo@ecotrack.com",
4   "passwordHash": "hashedpassword123",
5   "displayName": "Usuário Demo"
6 }
```

Body Cookies Headers (5) Test Results

201 Created · 205 ms · 401 B Save Response

{ } JSON Preview Visualize

```
1 {
2   "id": "2e5296ec-dd85-46b6-b0be-dc476ad2b386",
3   "email": "demo@ecotrack.com",
4   "passwordHash": "hashedpassword123",
5   "displayName": "Usuário Demo",
6   "createdAt": "2025-10-11T19:57:39.748468-03:00",
7   "updatedAt": "2025-10-11T19:57:39.748468-03:00"
8 }
```

CREATE NUTRITION

EcoTrack Oracle API / Create Nutrition

POST

{{base}}/api/nutrition

Send

Params

Authorization

Headers (9)

Body

Scripts

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

Schemas

Base

1

{

2

"id": null,

3

"product": {

4

"id": "603ed76e-3bb8-4254-9b1a-411166892832"

5

},

6

"nutriKey": "Proteinas",

7

"nutriValue": "12g por 100g"

8

}

Body

Cookies

Headers (5)

Test Results

201 Created

64 ms

427 B

Save Response

JSON

Preview

Visualize

1

{

2

"id": "d0c98de6-a1cf-4b78-bfc2-eeedae61e529",

3

"product": {

4

"id": "603ed76e-3bb8-4254-9b1a-411166892832",

5

"name": "Granola Integral",

6

"category": "Cereais",

7

"kcal100g": 300,

8

"co2PerUnit": 0.9,

9

"barcode": "7891008310101"

10

},

11

"nutriKey": "Proteinas",

12

"nutriValue": "12g por 100g"

13

}

LIST NUTRITION

HTTP

EcoTrack Oracle API / List Nutrition

GET

▼

{{base}} /api/nutrition/603ed76e-3bb0-4254-9b1a-411166892832

Params

Authorization

Headers (6)

Body

Scripts

Settings

Query Params

	Key	Value
	Key	Value

Body

Cookies

Headers (5)

Test Results

🔄

{{}} JSON ▼

▶ Preview

🖼 Visualize ▼

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

[

{

"id": "d0c98de6-a1cf-4b78-bfc2-eeedae61e529",

"product": {

"id": "603ed76e-3bb0-4254-9b1a-411166892832",

"name": "Granola Integral",

"category": "Cereais",

"kcal100g": 380,

"co2PerUnit": 0.9,

"barcode": "7891000310101"

}

,

"nutriKey": "Proteínas",

"nutriValue": "12g por 100g"

}

]

DELETE NUTRITION

EcoTrack Oracle API / Delete Nutrition

SaveShare

DELETE

{{base}} /api/nutrition/d0c98de6-a1cf-4b78-bfc2-eeedae61e529

Send

ParamsAuthorizationHeaders (6)BodyScriptsSettings

Query Params

	Key	Value	Description		Bulk Edit
	Key	Value	Description		

BodyCookiesHeaders (3)Test Results

204 No Content · 46 ms · 112 B · Save Response

RawPreviewVisualize

1