**Tracking Number Generator**

This is a Spring Boot application that generates and manages unique tracking numbers.

**Prerequisites**

* Java 17
* Maven

**Setup**

1. Clone the repository:
2. git clone <repository-url>

cd trackingNumberGenerator

1. Build and run the application:
2. mvn clean install

mvn spring-boot:run

**API Endpoints**

**1. GET /api/next-tracking-number**

**Description**

Fetches the tracking number based on provided input values.

**Request Example**

GET http://localhost:8080/api/next-tracking-number?origin\_country\_id=US&destination\_country\_id=IN&weight=1.234&created\_at=2025-03-29T16:00:00Z&customer\_id=de619854-b59b-425e-9db4-943979e1bd49&customer\_name=RedBox Logistics&customer\_slug=redbox-logistics

**Response Example**

{

"trackingNumber": "A1B2C3D4E5F6G7H8",

"originCountryId": "US",

"destinationCountryId": "IN",

"weight": 1.234,

"createdAt": "2025-03-29T16:20:00Z",

"customerId": "de619854-b59b-425e-9db4-943979e1bd49",

"customerName": "RedBox Logistics",

"customerSlug": "redbox-logistics"

}

**2. GET /api/all**

**Description**

Returns a list of all tracking numbers stored in the system.

**Request Example**

GET http://localhost:8080/api/all

**Response Example**

[

{

"trackingNumber": "A1B2C3D4E5F6G7H8",

"originCountryId": "US",

"destinationCountryId": "IN",

"weight": 1.234,

"createdAt": "2025-03-29T16:20:00Z",

"customerId": "de619854-b59b-425e-9db4-943979e1bd49",

"customerName": "RedBox Logistics",

"customerSlug": "redbox-logistics"

},

{

"trackingNumber": "XYZ9876543210987",

"originCountryId": "CA",

"destinationCountryId": "UK",

"weight": 2.500,

"createdAt": "2025-03-30T10:15:00Z",

"customerId": "b25c3d4e-5678-425e-9db4-789654123abc",

"customerName": "BlueBox Shipping",

"customerSlug": "bluebox-shipping"

}

]

**3. POST /api/add-tracking-number**

**Description**

Generates and adds a new unique tracking number based on provided details.

**Request Example**

POST http://localhost:8080/api/add-tracking-number?origin\_country\_id=US&destination\_country\_id=IN&weight=1.234&created\_at=2025-03-29T16:00:00Z&customer\_id=de619854-b59b-425e-9db4-943979e1bd49&customer\_name=RedBox Logistics&customer\_slug=redbox-logistics

**POSTMAN Req:**

curl --location 'http://localhost:8080/api/add-tracking-number?origin\_country\_id=US&destination\_country\_id=IN&weight=1.234&created\_at=2025-03-29T16%3A00%3A00Z&customer\_id=de619854-b59b-425e-9db4-943979e1bd42&customer\_name=RedBox%20Logistics&customer\_slug=redbox-logistics' \

--header 'Content-Type: application/json' \

--header 'Cookie: JSESSIONID=5366973DE54A86F55AF139AEFABB628E' \

--**data** '{

    "project\_no":"3P99999",

    "ticket\_no":"TN857317",

    "inventory\_status":"Dispatched",

    "inventory\_date":"02-09-2024 11:55:00"

}'

**Response Examples**

**Success:**

{

"trackingNumber": "A1B2C3D4E5F6G7H8",

"originCountryId": "US",

"destinationCountryId": "IN",

"weight": 1.234,

"createdAt": "2025-03-29T16:20:00Z",

"customerId": "de619854-b59b-425e-9db4-943979e1bd49",

"customerName": "RedBox Logistics",

"customerSlug": "redbox-logistics"

}

**Error - Duplicate Tracking Number:**

{

"error": "A tracking record with these details already exists."

}

**Error - Not Found:**

{

"error": "Tracking number not found."

}