1. **Introduction.**

The Product Catalogue API provides endpoints for managing products in the system. This document serves as a guide for developers to understand how to interact with the API and utilize its functionalities.

1. **API Endpoints.**

* **Add Product**

Endpoint: POST /addProduct

Description: Adds a new product to the system

Request Body

{

"name": "Second p",

"description": "This is sample product description.",

"price": 149.99,

"categories": "Electronics, Appliances",

"attributes": {

"color": "White",

"weight": "2 kg"

},

"availability": {

"inStock": true,

"quantity": 50

},

"ratings": [

{

"userId": 789,

"rating": 4.0,

"comment": "Good product!"

},

{

"userId": 1011,

"rating": 4.2,

"comment": "Satisfied with the purchase"

}

]

}

* **GET /retrievProduct**

Endpoint: retrievProduct

Description: Retrieves a list of all products stored in the system.

Url: <http://localhost:8888/retrievProduct>

Response: Returns a list of product objects containing details such as name, description, price, categories, attributes, availability, and ratings.

* **Update Price**

Endpoint: PATCH /updatePrice/{id}/{price}

Description: Updates the price of a specific product identified by its ID.

Url: [http://localhost:8888/updatePrice/{id}/{price}](http://localhost:8888/updatePrice/%7bid%7d/%7bprice%7d)

The unique identifier of the product to update / {id}

The new price to set for the product / {price}

Response: Returns a success message upon successfully updating the price of the product.

* **Update Availability:**

Endpoint: PATCH /updateAvailability/{id}/{inStock}/{quantity}

Description: Updates the availability status of a specific product identified by its ID.

Url: [http://localhost:8888/updateAvailability/{id}/{inStock}/{quantity}](http://localhost:8888/updateAvailability/%7bid%7d/%7binStock%7d/%7bquantity%7d)

The unique identifier of the product to update / {id}

The available quantity of the product. {/ quantity }

A boolean value indicating whether the product is in stock (true or false). / {inStock }

Response: Returns a success message upon successfully updating the availability of the product.

* **Update categories**

Endpoint: PATCH /updatecategories/{id}/{categories}

Description: Updates the categories of a specific product identified by its ID.

Url: [http://localhost:8888/updatecategories/{id}/{categories}](http://localhost:8888/updatecategories/%7bid%7d/%7bcategories%7d)

The unique identifier of the product to update. {/id}

A comma-separated string containing the updated categories for the product. {categories}

Response: Returns a success message upon successfully updating the categories of the product.

* **Delete Product**

Endpoint: DELETE /deleteProduct/{id}

Description: Deletes a specific product from the system identified by its ID.

Url: [http://localhost:8888/deleteProduct/{id}](http://localhost:8888/deleteProduct/%7bid%7d)

The unique identifier of the product to update. {/id}

Response: Returns a success message upon successfully deleting the product.