

## **Test Document: Case Study\_myRetail RESTful service**

1. The application exposes following REST API to retrieve the product details specific to a product id along with pricing information-

<http://localhost:8080/MyProject/products/13860428>

2. Response of the API hit in step1:

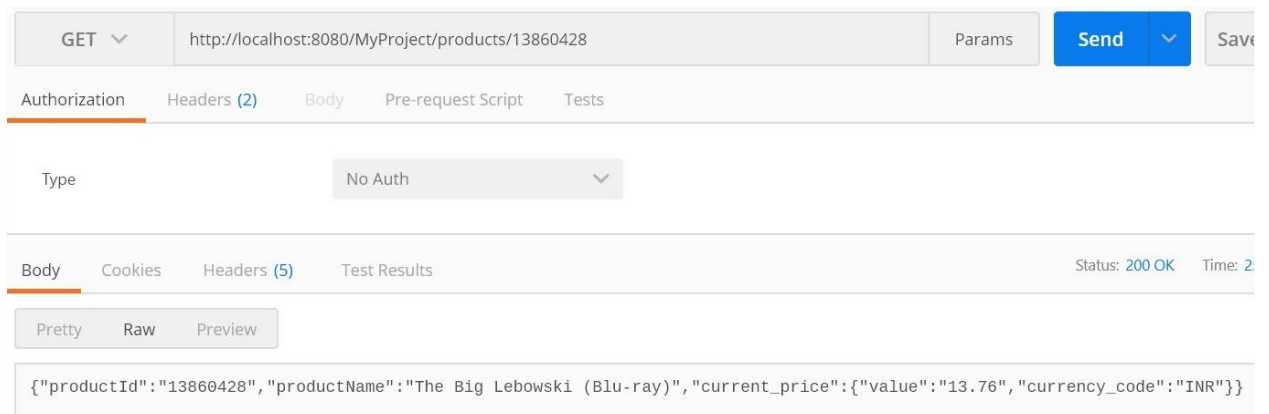
```
{"productId":"13860428","productName":"The Big Lebowski  
(Blu-ray)","current_price":{"value":"13.76","currency_code":"INR"}}
```

### Code Snippet:

```
@Override
public Optional<Product> fetchProduct(String productId) {
    String url = "https://redsky.target.com/v2/pdp/tcin/" + productId +
        "?excludes=taxonomy,price,promotion,bulk_ship,rating_and_review_reviews,rating_and_review_statistics,question_answer_statistics";
    Product product;
    try {
        String response = restTemplate.getForObject(url, String.class);
        product = new Gson().fromJson(response, Product.class);
    } catch (Exception ex) {
        return Optional.empty();
    }
    return Optional.ofNullable(product);
}

@Override
public Price fetchPrice(String productId) {
    return mongoOperations.findOne(new Query(where("product_id").is(productId)), Price.class);
}
```

### Response screenshot:



3. Price details are fetched from MongoDB and added to the response above(current\_price).

```
p(shell):1:1
> use productdb
switched to db productdb
> show collections
price
> db.price.find()
{ "_id" : ObjectId("5ed7df4ab1c0c636ff192273"), "product_id" : "13860428", "current_price" : { "value" : "13.49", "currency_code" : "USD" } }
> db.price.find()
```

4. Application exposes REST API to update the pricing details in MongoDB.

Sample response body: {"current\_price":{"value":"13.49","currency\_code":"USD"}}

The screenshot shows a REST client interface with a PUT request to `http://localhost:8080/MyProject/products/13860428`. The request body is a JSON object: `{"current_price":{"value":"13.49","currency_code":"USD"}}`. The media type is set to `JSON (application/json)`.

After updating the currency values(initial: 13.76 INR , post update: 13.49 USD)

The screenshot shows a REST client interface with a GET request to `http://localhost:8080/MyProject/products/13860428`. The response status is `200 OK`. The response body is a JSON object: `{"productId":"13860428","productName":"The Big Lebowski (Blu-ray)","current_price":{"value":"13.49","currency_code":"USD"}}`. The response is displayed in the 'Body' tab, with 'Pretty' formatting selected.