





# Institute of Technology of Cambodia

Département de Génie Informatique et Communication

## Department of Information and Communication Engineering

Professeur : HOK TIN

Subject : Internet Programming

Assignment : TP11- Web app, CRUD API

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YEAR : 2023-2024

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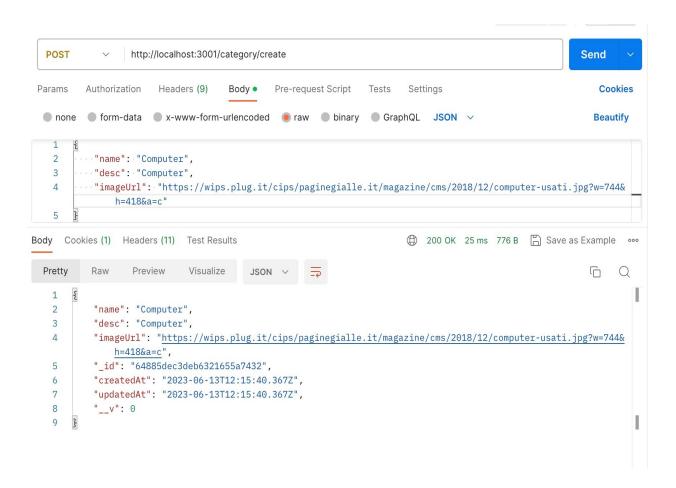
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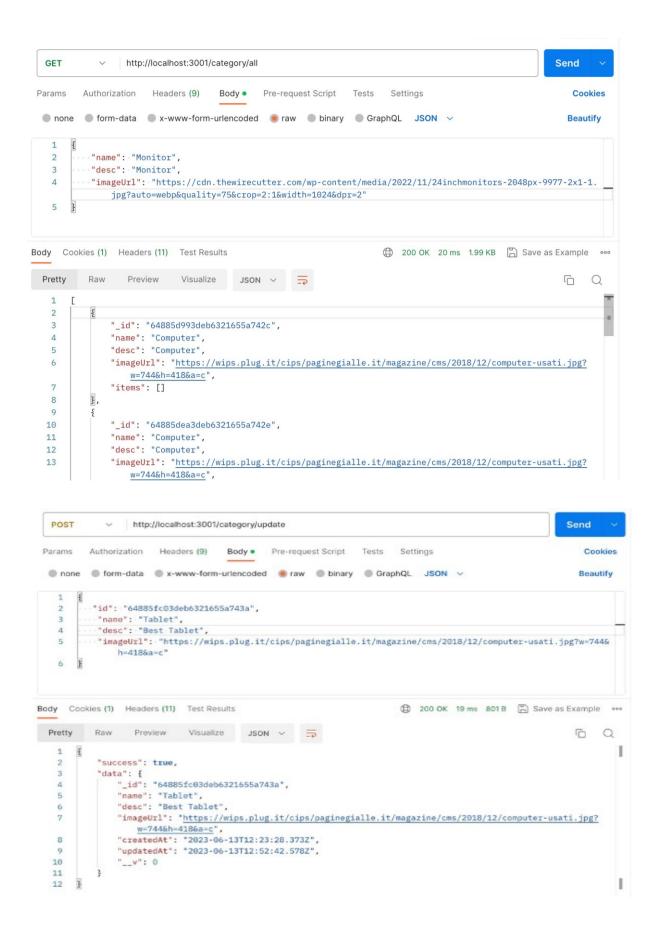
URL: https://github.com/thuenaratt/TP11

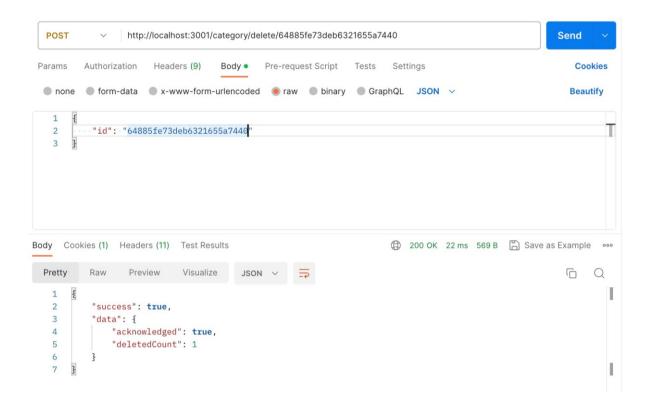
### TP11.1: CRUD Apis

Create APIs to manage products by categorizing/sub-categorizing.

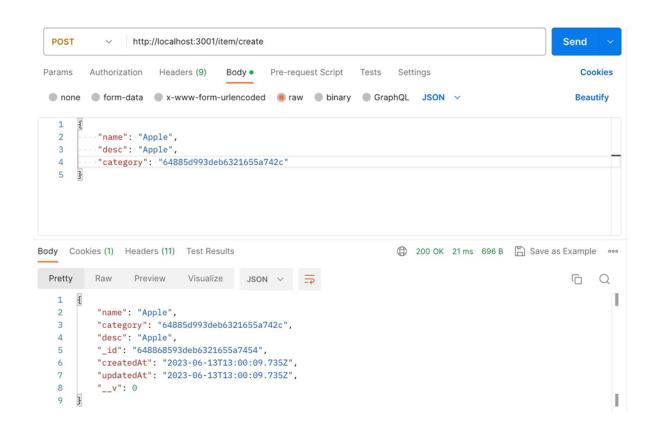
CRUD APIs for category

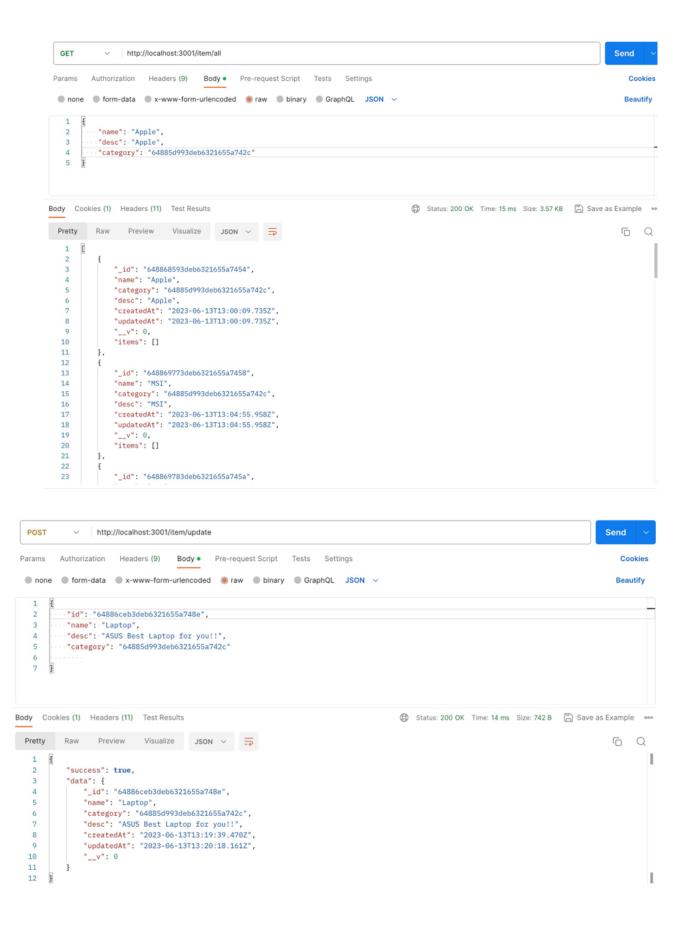


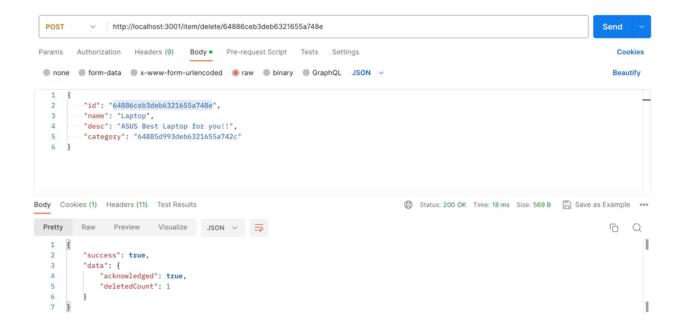




CRUD APIs for sub-category

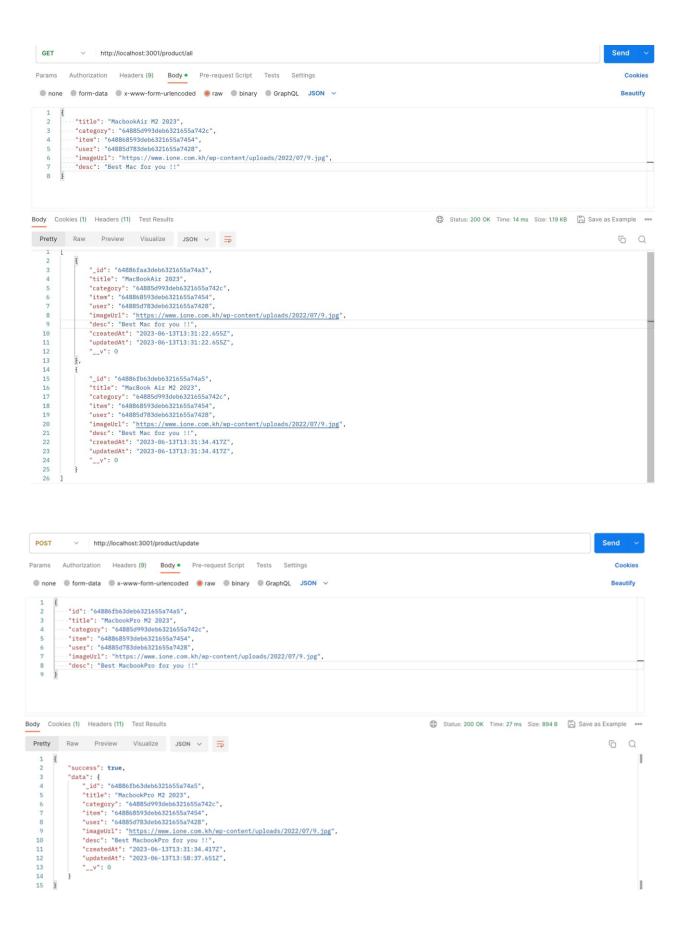


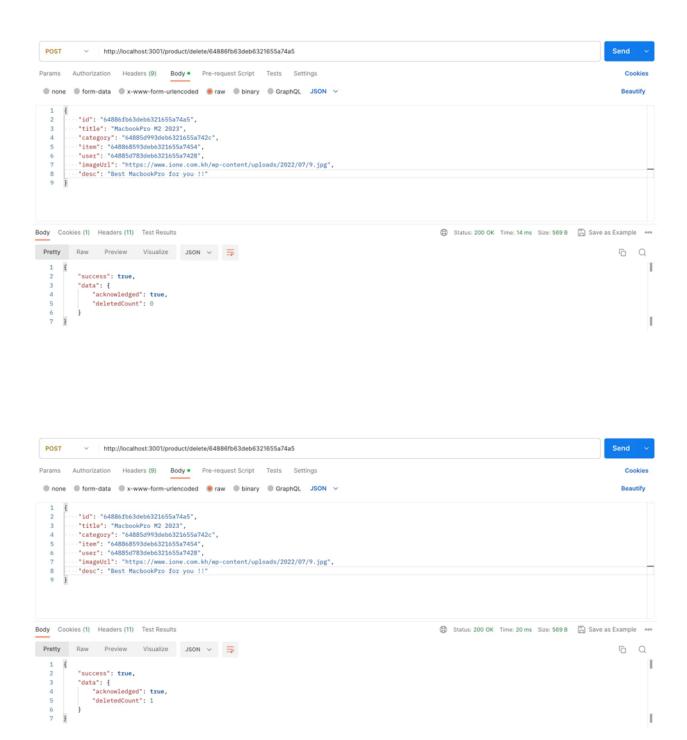




• CRUD APIs for product

```
POST
            http://localhost:3001/product/create
                                                                                                                                         Send
          Authorization Headers (9) Body • Pre-request Script Tests Settings
                                                                                                                                             Cookies
  ■ none ■ form-data ■ x-www-form-urlencoded ■ raw ■ binary ■ GraphQL JSON ∨
                                                                                                                                            Beautify
            "title": "MacBook Air M2 2023",
            "category": "64885d993deb6321655a742c",
            "item": "648868593deb6321655a7454",
           "user": "64885d783deb6321655a7428",
           "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
           "desc": "Best Mac for you !!"
   8
Body Cookies (1) Headers (11) Test Results
                                                                                         Status: 200 OK Time: 17 ms Size: 864 B Save as Example •••
  Pretty
           Raw Preview Visualize JSON V
                                                                                                                                           6 Q
   1
            "title": "MacBook Air M2 2023",
            "category": "64885d993deb6321655a742c",
   4
           "item": "648868593deb6321655a7454",
   5
           "user": "64885d783deb6321655a7428",
           "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
           "desc": "Best Mac for you !!",
"_id": "64886fb63deb6321655a74a5",
           "createdAt": "2023-06-13T13:31:34.417Z",
           "updatedAt": "2023-06-13T13:31:34.417Z",
  10
  11
            "_v": 0
```





## TP11.2: TopOne app

Design a basic website template to compare product price tags from different sources.

