



Institute of Technology of Cambodia

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Subject	:	Internet Programming
Assignment	:	TP11- Web app,CRUD API
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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

The screenshot displays a REST client interface with a POST request to `http://localhost:3001/category/create`. The request body is a JSON object with the following fields:

```
{
  "name": "Computer",
  "desc": "Computer",
  "imageUrl": "https://wips.plugin.it/cips/paginegialle.it/magazine/cms/2018/12/computer-usati.jpg?w=744&h=418&a=c"
}
```

The response is a 200 OK status with a 25 ms response time and 776 B of data. The response body is a JSON object with the following fields:

```
{
  "name": "Computer",
  "desc": "Computer",
  "imageUrl": "https://wips.plugin.it/cips/paginegialle.it/magazine/cms/2018/12/computer-usati.jpg?w=744&h=418&a=c",
  "_id": "64885dec3deb6321655a7432",
  "createdAt": "2023-06-13T12:15:40.367Z",
  "updatedAt": "2023-06-13T12:15:40.367Z",
  "__v": 0
}
```

GET http://localhost:3001/category/all Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 [
2   {
3     "name": "Monitor",
4     "desc": "Monitor",
5     "imageUrl": "https://cdn.thewirecutter.com/wp-content/media/2022/11/24inchmonitors-2048px-9977-2x1-1.jpg?auto=webp&quality=75&crop=2:1&width=1024&dpr=2"
6   }
7 ]
```

Body Cookies (1) Headers (11) Test Results 200 OK 20 ms 1.99 KB Save as Example

Pretty Raw Preview Visualize JSON

```
1 [
2   {
3     "_id": "64885d993deb6321655a742c",
4     "name": "Computer",
5     "desc": "Computer",
6     "imageUrl": "https://wips.plugin.it/cips/paginegialle.it/magazine/cms/2018/12/computer-usati.jpg?w=744&h=418&a=c",
7     "items": []
8   },
9   {
10    "_id": "64885dea3deb6321655a742e",
11    "name": "Computer",
12    "desc": "Computer",
13    "imageUrl": "https://wips.plugin.it/cips/paginegialle.it/magazine/cms/2018/12/computer-usati.jpg?w=744&h=418&a=c",
14  }
15 ]
```

POST http://localhost:3001/category/update Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "id": "64885fc03deb6321655a743a",
3   "name": "Tablet",
4   "desc": "Best Tablet",
5   "imageUrl": "https://wips.plugin.it/cips/paginegialle.it/magazine/cms/2018/12/computer-usati.jpg?w=744&h=418&a=c"
6 }
```

Body Cookies (1) Headers (11) Test Results 200 OK 19 ms 801 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "data": {
4     "_id": "64885fc03deb6321655a743a",
5     "name": "Tablet",
6     "desc": "Best Tablet",
7     "imageUrl": "https://wips.plugin.it/cips/paginegialle.it/magazine/cms/2018/12/computer-usati.jpg?w=744&h=418&a=c",
8     "createdAt": "2023-06-13T12:23:28.373Z",
9     "updatedAt": "2023-06-13T12:52:42.578Z",
10    "__v": 0
11  }
12 }
```

POST http://localhost:3001/category/delete/64885fe73deb6321655a7440

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "id": "64885fe73deb6321655a7440"
3 }
```

Body Cookies (1) Headers (11) Test Results 200 OK 22 ms 569 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "data": {
4     "acknowledged": true,
5     "deletedCount": 1
6   }
7 }
```

- CRUD APIs for sub-category

POST http://localhost:3001/item/create

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "name": "Apple",
3   "desc": "Apple",
4   "category": "64885d993deb6321655a742c"
5 }
```

Body Cookies (1) Headers (11) Test Results 200 OK 21 ms 696 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "name": "Apple",
3   "category": "64885d993deb6321655a742c",
4   "desc": "Apple",
5   "_id": "648868593deb6321655a7454",
6   "createdAt": "2023-06-13T13:00:09.735Z",
7   "updatedAt": "2023-06-13T13:00:09.735Z",
8   "__v": 0
9 }
```

GET http://localhost:3001/item/all Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1
2  {
3    "name": "Apple",
4    "desc": "Apple",
5    "category": "64885d993deb6321655a742c"
6  }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 15 ms Size: 3.57 KB Save as Example

Pretty Raw Preview Visualize JSON

```
1
2  {
3    "_id": "648868593deb6321655a7454",
4    "name": "Apple",
5    "category": "64885d993deb6321655a742c",
6    "desc": "Apple",
7    "createdAt": "2023-06-13T13:00:09.735Z",
8    "updatedAt": "2023-06-13T13:00:09.735Z",
9    "__v": 0,
10   "items": []
11 },
12 {
13   "_id": "648869773deb6321655a7458",
14   "name": "MSI",
15   "category": "64885d993deb6321655a742c",
16   "desc": "MSI",
17   "createdAt": "2023-06-13T13:04:55.958Z",
18   "updatedAt": "2023-06-13T13:04:55.958Z",
19   "__v": 0,
20   "items": []
21 },
22 {
23   "_id": "648869783deb6321655a745a",
```

POST http://localhost:3001/item/update Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1
2  {
3    "id": "64886ceb3deb6321655a748e",
4    "name": "Laptop",
5    "desc": "ASUS Best Laptop for you!!",
6    "category": "64885d993deb6321655a742c"
7  }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 14 ms Size: 742 B Save as Example

Pretty Raw Preview Visualize JSON

```
1
2  {
3    "success": true,
4    "data": {
5      "_id": "64886ceb3deb6321655a748e",
6      "name": "Laptop",
7      "category": "64885d993deb6321655a742c",
8      "desc": "ASUS Best Laptop for you!!",
9      "createdAt": "2023-06-13T13:19:39.470Z",
10     "updatedAt": "2023-06-13T13:20:18.161Z",
11     "__v": 0
12   }
13 }
```

POST http://localhost:3001/item/delete/64886ceb3deb6321655a748e Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "id": "64886ceb3deb6321655a748e",
3   "name": "Laptop",
4   "desc": "ASUS Best Laptop for you!!",
5   "category": "64885d993deb6321655a742c"
6 }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 18 ms Size: 569 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "data": {
4     "acknowledged": true,
5     "deletedCount": 1
6   }
7 }
```

- CRUD APIs for product

POST http://localhost:3001/product/create Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```
1 {
2   "title": "MacBook Air M2 2023",
3   "category": "64885d993deb6321655a742c",
4   "item": "648868593deb6321655a7454",
5   "user": "64885d783deb6321655a7428",
6   "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
7   "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

```
1 {
2   "title": "MacBook Air M2 2023",
3   "category": "64885d993deb6321655a742c",
4   "item": "648868593deb6321655a7454",
5   "user": "64885d783deb6321655a7428",
6   "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
7   "desc": "Best Mac for you !!",
8   "_id": "64886fb63deb6321655a74a5",
9   "createdAt": "2023-06-13T13:31:34.417Z",
10  "updatedAt": "2023-06-13T13:31:34.417Z",
11  "__v": 0
12 }
```

GET http://localhost:3001/product/all Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Beautify

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

```
1 {
2   ... "title": "MacbookAir M2 2023",
3   ... "category": "64885d993deb6321655a742c",
4   ... "item": "648868593deb6321655a7454",
5   ... "user": "64885d783deb6321655a7428",
6   ... "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
7   ... "desc": "Best Mac for you !!"
8 }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 14 ms Size: 1.19 KB Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   ... "title": "MacbookAir M2 2023",
3   ... "category": "64885d993deb6321655a742c",
4   ... "item": "648868593deb6321655a7454",
5   ... "user": "64885d783deb6321655a7428",
6   ... "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
7   ... "desc": "Best Mac for you !!",
8   "createdAt": "2023-06-13T13:31:22.655Z",
9   "updatedAt": "2023-06-13T13:31:22.655Z",
10  " __v": 0
11 }
12
13 {
14   ... "title": "MacBook Air M2 2023",
15   ... "category": "64885d993deb6321655a742c",
16   ... "item": "648868593deb6321655a7454",
17   ... "user": "64885d783deb6321655a7428",
18   ... "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
19   ... "desc": "Best Mac for you !!",
20   "createdAt": "2023-06-13T13:31:34.417Z",
21   "updatedAt": "2023-06-13T13:31:34.417Z",
22   " __v": 0
23 }
24
25 }
26 }
```

POST http://localhost:3001/product/update Send

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Beautify

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

```
1 {
2   ... "id": "64886fb63deb6321655a74a5",
3   ... "title": "MacbookPro M2 2023",
4   ... "category": "64885d993deb6321655a742c",
5   ... "item": "648868593deb6321655a7454",
6   ... "user": "64885d783deb6321655a7428",
7   ... "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
8   ... "desc": "Best MacbookPro for you !!"
9 }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 27 ms Size: 894 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "data": {
4     ... "id": "64886fb63deb6321655a74a5",
5     ... "title": "MacbookPro M2 2023",
6     ... "category": "64885d993deb6321655a742c",
7     ... "item": "648868593deb6321655a7454",
8     ... "user": "64885d783deb6321655a7428",
9     ... "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
10    ... "desc": "Best MacbookPro for you !!",
11    "createdAt": "2023-06-13T13:31:34.417Z",
12    "updatedAt": "2023-06-13T13:58:37.651Z",
13    " __v": 0
14  }
15 }
```


POST http://localhost:3001/product/delete/64886fb63deb6321655a74a5 Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Beautify

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

```
1 {
2   ... "id": "64886fb63deb6321655a74a5",
3   ... "title": "MacbookPro M2 2023",
4   ... "category": "64885d993deb6321655a742c",
5   ... "item": "648868593deb6321655a7454",
6   ... "user": "64885d783deb6321655a7428",
7   ... "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
8   ... "desc": "Best MacbookPro for you !!"
9 }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 14 ms Size: 569 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "data": {
4     "acknowledged": true,
5     "deletedCount": 0
6   }
7 }
```

POST http://localhost:3001/product/delete/64886fb63deb6321655a74a5 Send

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Beautify

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

```
1 {
2   ... "id": "64886fb63deb6321655a74a5",
3   ... "title": "MacbookPro M2 2023",
4   ... "category": "64885d993deb6321655a742c",
5   ... "item": "648868593deb6321655a7454",
6   ... "user": "64885d783deb6321655a7428",
7   ... "imageUrl": "https://www.ione.com.kh/wp-content/uploads/2022/07/9.jpg",
8   ... "desc": "Best MacbookPro for you !!"
9 }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 20 ms Size: 569 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "data": {
4     "acknowledged": true,
5     "deletedCount": 1
6   }
7 }
```

TP11.2: TopOne app

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

