



Institute of Technology of Cambodia



**Department of Information and
Communication Engineering**

Assignment TP12

TP12: CRUD APIs, Mongoose, Admin Dashboard

Group: I4 GIC(C)

Lecturers

HOK TIN

Student's Name:

ROTHA DAPRAVITH

Subjects

TP Internet-Programming II(IP)

ID

e20190915

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GitHub's Repository: https://github.com/Dapravith/TP_Internet_Programming/tree/TP12

EX1: Express JS

Create an API for product prices.

CRUD APIs for Product Price

Create Price

The screenshot shows a REST client interface with the following details:

- URL:** `http://localhost:3001/price/create`
- Method:** `POST`
- Body (Request):**

```
1 {
2   "product": "649838461c5cfc1bb540473b",
3   "price": "2.25",
4   "source": "Krud Beer"
5 }
```
- Status:** 200 OK
- Time:** 19 ms
- Size:** 699 B
- Body (Response):**

```
1 {
2   "product": "649838461c5cfc1bb540473b",
3   "price": 2.25,
4   "source": "Krud Beer",
5   "_id": "64983c6033dc74152cef9033",
6   "createdAt": "2023-06-25T13:08:48.364Z",
7   "updatedAt": "2023-06-25T13:08:48.364Z",
8   "__v": 0
9 }
```

Get Price

HTTP TP12 / Get Price Save Edit

GET ▼ http://localhost:3001/price/all Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 16 ms Size: 1.89 KB Save as Example ...

Pretty Raw Preview Visualize JSON ▼ Copy

```
1 [
2   {
3     "_id": "64983597870dd5005fb815b2",
4     "price": 1,
5     "source": "Anchor Beer"
6   },
7   {
8     "_id": "6498379b499afbdaa5c2bb9d",
9     "product": "64983597870dd5005fb815b2",
10    "price": 1,
11    "source": "Anchor Beer",
12    "createdAt": "2023-06-25T12:48:27.440Z",
13    "updatedAt": "2023-06-25T12:48:27.440Z",
14    "__v": 0
15  },
16  {
17    "_id": "649837a3499afbdaa5c2bb9f",
18    "product": "64983597870dd5005fb815b2",
19    "price": 1.25,
20    "source": "Anchor Beer",
21    "createdAt": "2023-06-25T12:48:35.672Z",
22    "updatedAt": "2023-06-25T12:48:35.672Z",
23    "__v": 0
24  },
25  {
26    "_id": "649837a4499afbdaa5c2bba1",
27    "product": "64983597870dd5005fb815b2",
28    "price": 1.25,
29    "source": "Anchor Beer",
30    "createdAt": "2023-06-25T12:48:36.540Z",
31    "updatedAt": "2023-06-25T12:48:36.540Z",
32    "__v": 0
33  },
34  {
35    "_id": "649837a5499afbdaa5c2bba3",
36    "product": "64983597870dd5005fb815b2",
37    "price": 1.25,
38    "source": "Anchor Beer",
39    "createdAt": "2023-06-25T12:48:37.146Z",
40    "updatedAt": "2023-06-25T12:48:37.146Z",
```

Before Update Price

```
{
  "_id": "6498379b499afbdaa5c2bb9d",
  "product": "64983597870dd5005fb815b2",
  "price": 1,
  "source": "Anchor Beer",
  "createdAt": "2023-06-25T12:48:27.440Z",
  "updatedAt": "2023-06-25T12:48:27.440Z",
  "__v": 0
},
```

After Update Price

The screenshot displays a REST client interface for a POST request to `http://localhost:3001/price/update`. The request body is a JSON object with the following fields: `_id`, `product`, `price` (updated to 3.65), `source`, `createdAt`, `updatedAt`, and `__v`. The response status is 200 OK, and the response body is a JSON object indicating success and returning the updated data.

TP12 / Update Price

POST `http://localhost:3001/price/update` Send

Params Authorization Headers (10) Body Pre-request Script Tests Settings Cookies Beautify

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

```
1 {
2   "id": "649837a3499afbdaa5c2bb9f",
3   "product": "64983597870dd5005fb815b2",
4   "price": 3.65,
5   "source": "Anchor Beer"
6 }
```

Body Cookies (1) Headers (11) Test Results Status: 200 OK Time: 57 ms Size: 727 B Save as Example

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "data": {
4     "_id": "649837a3499afbdaa5c2bb9f",
5     "product": "64983597870dd5005fb815b2",
6     "price": 3.65,
7     "source": "Anchor Beer",
8     "createdAt": "2023-06-25T12:48:35.672Z",
9     "updatedAt": "2023-06-25T13:14:44.741Z",
10    "__v": 0
11  }
12 }
```

Delete Price

TP12 / Delete Price

POST http://localhost:3001/price/delete/64983597870dd5005fb815b2

Send

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

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

```
1 {
2   ... "id": "6498389a33dc74152cef9018",
3   ... "product": "649838461c5cfc1bb540473b",
4   ... "price": "2.25",
5   ... "source": "Jinro"
6 }
```

Body Cookies (1) Headers (11) Test Results

Status: 200 OK Time: 30 ms Size: 571 B Save as Example

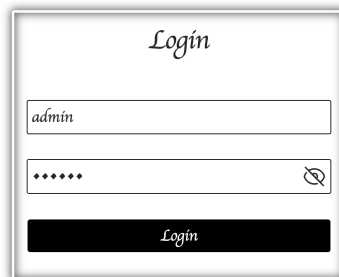
Pretty Raw Preview Visualize JSON

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

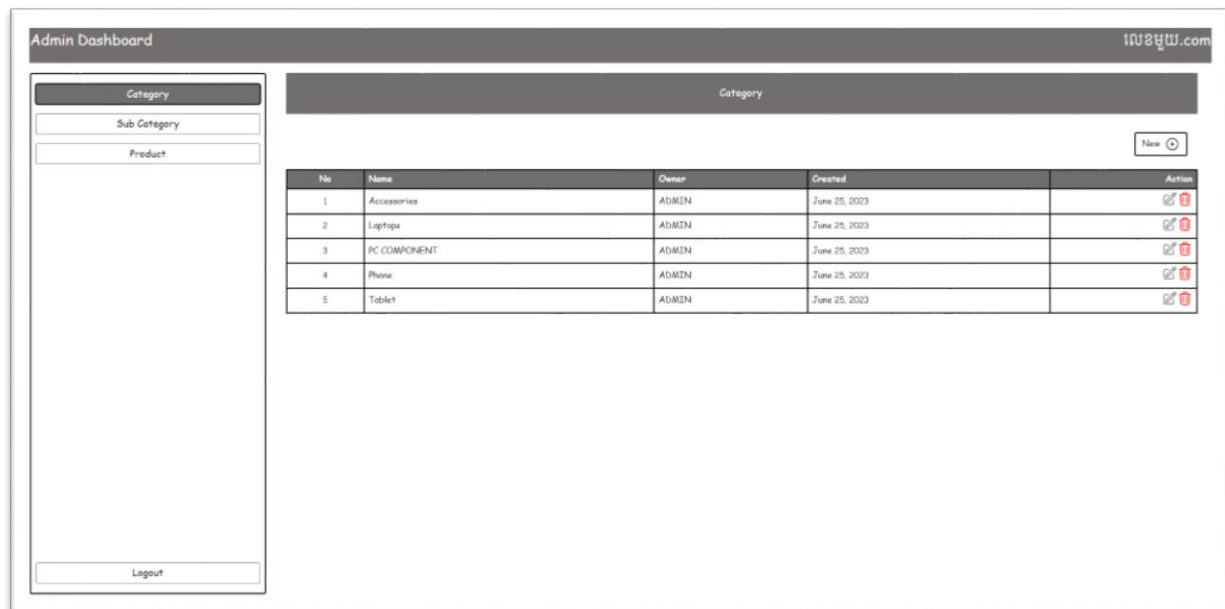
Ex2: VueJS











Design a basic admin dashboard to manage a dynamic website.

Login Page

A login form with a title "Login" in a cursive font. It contains two input fields: the first is for the username "admin" and the second is for the password "*****" with a toggle icon. Below the fields is a black "Login" button.

Product Management Category

A screenshot of the Admin Dashboard's Product Management Category page. The dashboard has a dark gray header with "Admin Dashboard" on the left and "លេខមួយ.com" on the right. On the left side, there is a sidebar with three buttons: "Category", "Sub Category", and "Product". The "Category" button is selected. The main content area has a title "Category" and a "New" button with a plus icon. Below this is a table with 5 columns: "No", "Name", "Owner", "Created", and "Action". The table contains 5 rows of data. At the bottom left of the sidebar, there is a "Logout" button.

No	Name	Owner	Created	Action
1	Accessories	ADMIN	June 25, 2023	 
2	Laptops	ADMIN	June 25, 2023	 
3	PC COMPONENT	ADMIN	June 25, 2023	 
4	Phone	ADMIN	June 25, 2023	 
5	Tablet	ADMIN	June 25, 2023	 

Sub-Category

Admin Dashboard លេខ២៣៣.com

Category

































Sub Category

Product

Logout

Sub Category

New

No	Name	Category	Owner	Created	Action
1	Mouse Padess	Accessories	ADMIN	June 25, 2023	 
2	Chargers & Power Adapters	Accessories	ADMIN	June 25, 2023	 
3	Mobile Phone Accessories	Accessories	ADMIN	June 25, 2023	 
4	Speakers & Portable Player	Accessories	ADMIN	June 25, 2023	 
5	Storage	Accessories	ADMIN	June 25, 2023	 
6	Gaming laptop	Laptops	ADMIN	June 25, 2023	 
7	Motherboard	PC COMPONENT	ADMIN	June 25, 2023	 
8	CPU	PC COMPONENT	ADMIN	June 25, 2023	 
9	COOLER	PC COMPONENT	ADMIN	June 25, 2023	 
10	GRAPHIC CARD	PC COMPONENT	ADMIN	June 25, 2023	 
11	RAM	PC COMPONENT	ADMIN	June 25, 2023	 
12	POWER SUPPLY	PC COMPONENT	ADMIN	June 25, 2023	 
13	Iphone	Phone	ADMIN	June 25, 2023	 
14	Samsung	Phone	ADMIN	June 25, 2023	 
15	LG	Phone	ADMIN	June 25, 2023	 
16	Ultrabooks	Laptops	ADMIN	June 25, 2023	 

Product

Admin Dashboard លេខ២៣៣.com

Category















Sub Category

Product

Logout

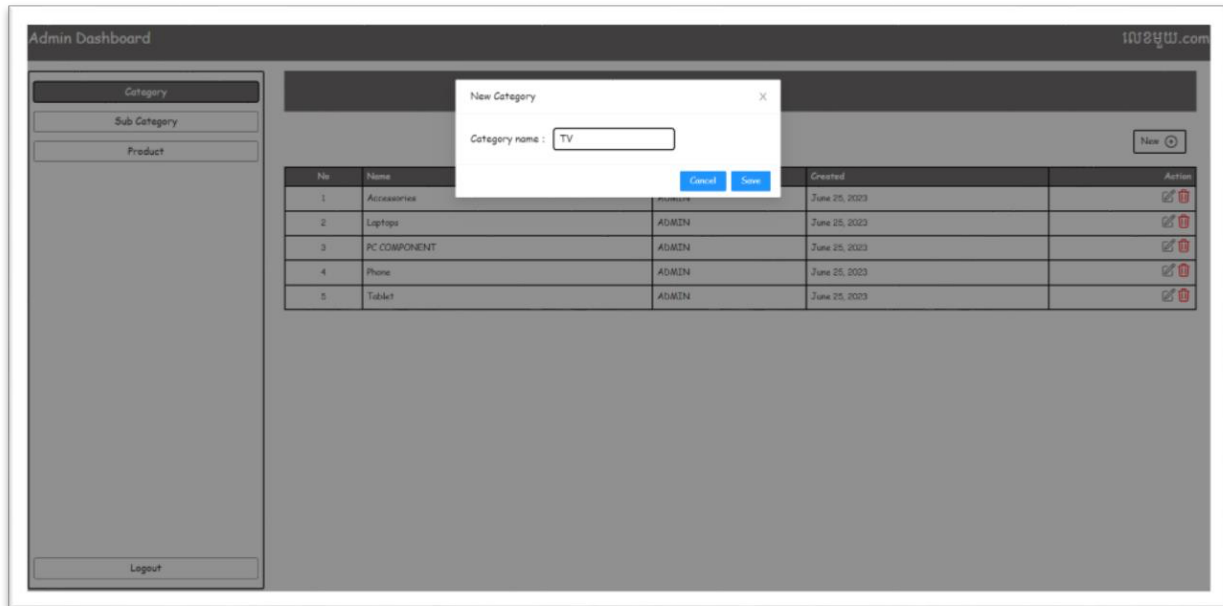
Sub Category

New











No	Name	Category	Sub Category	Owner	Created	Action
1	Axus Ray Sheathes	Accessories	Mouse Padess	ADMIN	June 25, 2023	 
2	Axus Ray Strive Edge	Accessories	Mouse Padess	ADMIN	June 25, 2023	 
3	CORSAIR RMU100	Accessories	Mouse Padess	ADMIN	June 25, 2023	 
4	Razer Firefly V2	Accessories	Mouse Padess	ADMIN	June 25, 2023	 
5	Razer Sphex V2	Accessories	Mouse Padess	ADMIN	June 25, 2023	 
6	JOJO PowerBank A24L 50000mAh	Accessories	Chargers & Power Adapters	ADMIN	June 25, 2023	 
7	Power bank B722A	Accessories	Chargers & Power Adapters	ADMIN	June 25, 2023	 

Creation

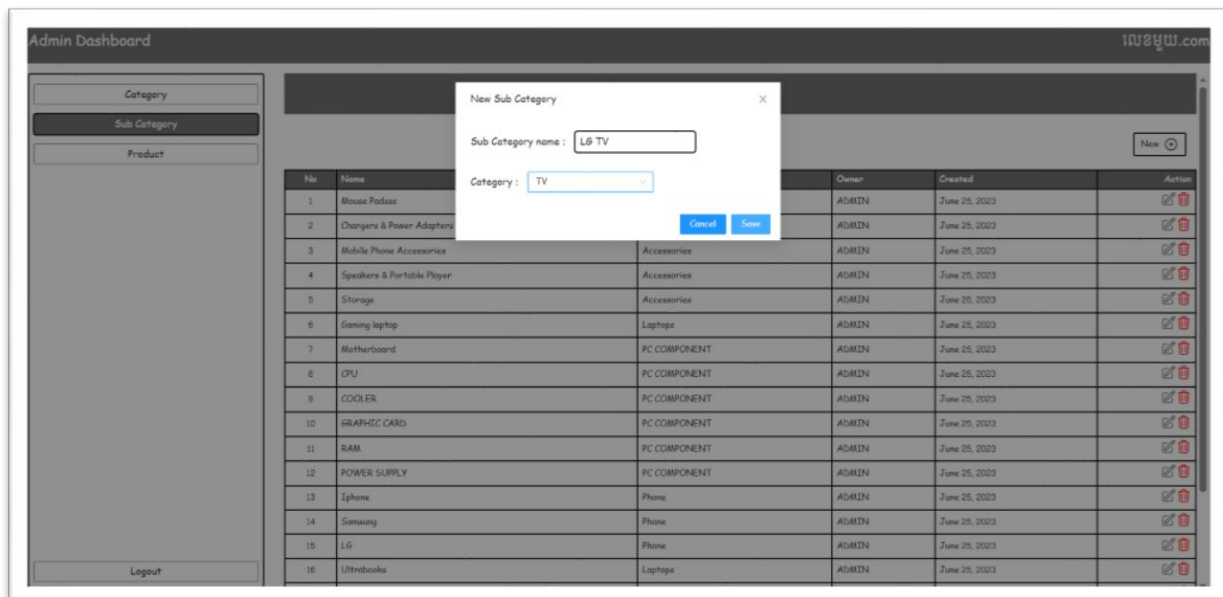
Add new Category



































The screenshot shows the Admin Dashboard with a 'New Category' modal open. The modal has a text input field for 'Category name' containing the value 'TV'. Below the input field are 'Cancel' and 'Save' buttons. The background dashboard shows a sidebar with 'Category', 'Sub Category', and 'Product' links, and a table of existing categories.

No	Name	Owner	Created	Action
1	Accessories	ADMIN	June 25, 2023	 
2	Laptops	ADMIN	June 25, 2023	 
3	PC COMPONENT	ADMIN	June 25, 2023	 
4	Phone	ADMIN	June 25, 2023	 
5	Tablet	ADMIN	June 25, 2023	 

Add new sub category



The screenshot shows the Admin Dashboard with a 'New Sub Category' modal open. The modal has a text input field for 'Sub Category name' containing the value 'LG TV'. Below the input field is a 'Category' dropdown menu currently set to 'TV'. At the bottom of the modal are 'Cancel' and 'Save' buttons. The background dashboard shows a sidebar with 'Category', 'Sub Category', and 'Product' links, and a table of existing sub-categories.

No	Name	Category	Owner	Created	Action
1	Mouse Padcase	Accessories	ADMIN	June 25, 2023	 
2	Chargers & Power Adapters	Accessories	ADMIN	June 25, 2023	 
3	Mobile Phone Accessories	Accessories	ADMIN	June 25, 2023	 
4	Speakers & Portable Player	Accessories	ADMIN	June 25, 2023	 
5	Storage	Accessories	ADMIN	June 25, 2023	 
6	Gaming laptop	Laptops	ADMIN	June 25, 2023	 
7	Motherboard	PC COMPONENT	ADMIN	June 25, 2023	 
8	CPU	PC COMPONENT	ADMIN	June 25, 2023	 
9	COOLER	PC COMPONENT	ADMIN	June 25, 2023	 
10	GRAPHIC CARD	PC COMPONENT	ADMIN	June 25, 2023	 
11	RAM	PC COMPONENT	ADMIN	June 25, 2023	 
12	POWER SUPPLY	PC COMPONENT	ADMIN	June 25, 2023	 
13	Iphone	Phone	ADMIN	June 25, 2023	 
14	Samsung	Phone	ADMIN	June 25, 2023	 
15	LG	Phone	ADMIN	June 25, 2023	 
16	Ultrabooks	Laptops	ADMIN	June 25, 2023	 

Add new Product

Admin Dashboard

Category

Sub Category

Product

Logout

New Product

Product name : Asus Rog Mouse Pad

Category : Accessories

Sub Category : Mouse Padless

Cancel Save

No	Name	Category	Sub Category	Owner	Created	Action
1	Asus Rog Sheathes			ADMIN	June 25, 2023	
2	Asus Rog Strix Edge			ADMIN	June 25, 2023	
3	CORSAIR RMU100			ADMIN	June 25, 2023	
4	Razer Firefly V2			ADMIN	June 25, 2023	
5	Razer Sphex V2			ADMIN	June 25, 2023	
6	JOKO PowerBank A24L 30000mAh	Accessories	Chargers & Power Adapters	ADMIN	June 25, 2023	
7	Power bank B720A	Accessories	Chargers & Power Adapters	ADMIN	June 25, 2023	

Update

Update Category

Admin Dashboard

Category

Sub Category

Product

Logout

Edit Category | Accessories

Category name : Accessories

Cancel Save

No	Name	Category	Sub Category	Owner	Created	Action
1	Accessories			ADMIN	June 25, 2023	
2	Laptop			ADMIN	June 25, 2023	
3	PC COMPONENT			ADMIN	June 25, 2023	
4	Phone			ADMIN	June 25, 2023	
5	Tablet			ADMIN	June 25, 2023	
6	TV			ADMIN	June 25, 2023	

Update Sub Category

Admin Dashboard 108888.com

Category

Sub Category

Product

Logout

Edit Sub Category | Mouse Padess

Sub Category name :

Cancel Save

No	Name	Category	Sub Category	Owner	Created	Action
1	Mouse Padess	Accessories		ADMIN	June 25, 2023	Edit Delete
2	Chargers & Power Adapters	Accessories		ADMIN	June 25, 2023	Edit Delete
3	Mobile Phone Accessories	Accessories		ADMIN	June 25, 2023	Edit Delete
4	Speakers & Portable Player	Accessories		ADMIN	June 25, 2023	Edit Delete
5	Storage	Accessories		ADMIN	June 25, 2023	Edit Delete
6	Gaming laptop	Laptops		ADMIN	June 25, 2023	Edit Delete
7	Motherboard	PC COMPONENT		ADMIN	June 25, 2023	Edit Delete
8	CPU	PC COMPONENT		ADMIN	June 25, 2023	Edit Delete
9	COOLER	PC COMPONENT		ADMIN	June 25, 2023	Edit Delete
10	GRAPHIC CARD	PC COMPONENT		ADMIN	June 25, 2023	Edit Delete
11	RAM	PC COMPONENT		ADMIN	June 25, 2023	Edit Delete
12	POWER SUPPLY	PC COMPONENT		ADMIN	June 25, 2023	Edit Delete
13	Iphone	Phone		ADMIN	June 25, 2023	Edit Delete
14	Samsung	Phone		ADMIN	June 25, 2023	Edit Delete
15	LG	Phone		ADMIN	June 25, 2023	Edit Delete
16	Ultrabooks	Laptops		ADMIN	June 25, 2023	Edit Delete

Update Product

Admin Dashboard 108888.com

Category

Sub Category

Product

Logout

Edit Product | Power bank B722A

Product name :

Cancel Save

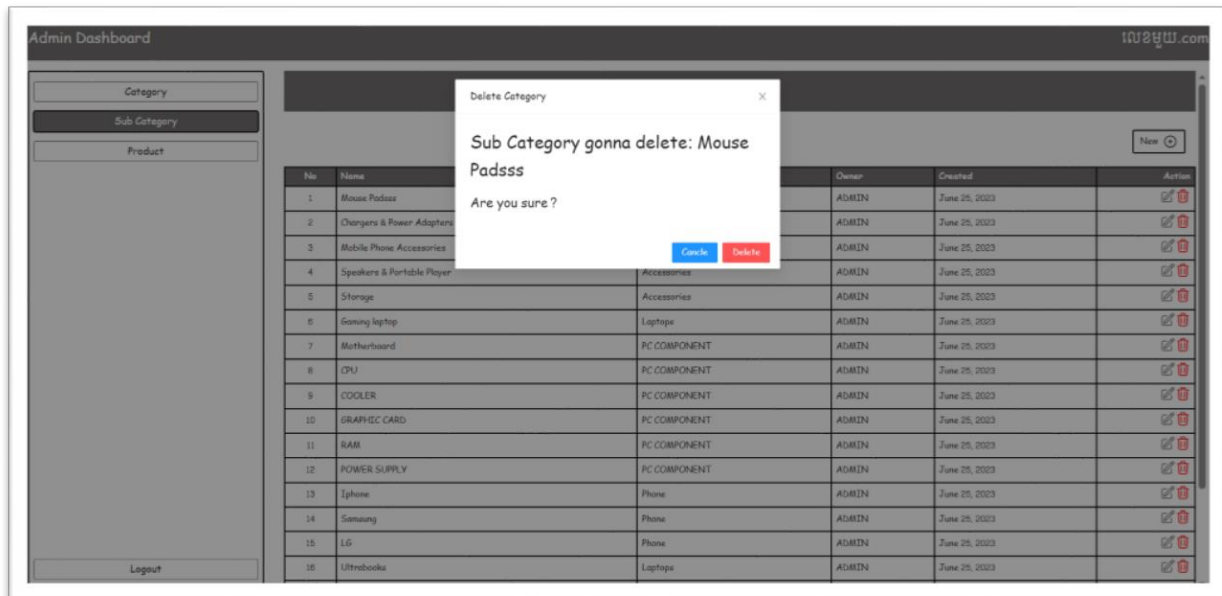
No	Name	Category	Sub Category	Owner	Created	Action
1	Axus Rog Sheathes			ADMIN	June 25, 2023	Edit Delete
2	Axus Rog Strix Edge	Accessories	Mouse Padess	ADMIN	June 25, 2023	Edit Delete
3	CORSAIR MM100	Accessories	Mouse Padess	ADMIN	June 25, 2023	Edit Delete
4	Razer Firefly V2	Accessories	Mouse Padess	ADMIN	June 25, 2023	Edit Delete
5	Razer Sphex V2	Accessories	Mouse Padess	ADMIN	June 25, 2023	Edit Delete
6	JOKO PowerBank 424L 5000mAh	Accessories	Chargers & Power Adapters	ADMIN	June 25, 2023	Edit Delete
7	Power bank B722A	Accessories	Chargers & Power Adapters	ADMIN	June 25, 2023	Edit Delete

Delete

Delete Category



Delete Sub-category



Delete Product

