



**Institute of Technology of Cambodia**



**Department of Information and  
Communication Engineering**

**Assignment TP12**

**TP12: CRUD APIs, Mongoose, Admin Dashboard**

**Group: I4 GIC(C)**

**Lecturers**

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**Subjects**

**TP Internet-Programming II(IP)**

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GitHub's Repository: [https://github.com/Dapravith/TP\\_Internet\\_Programming/tree/TP12](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` (3.65), `source` (Anchor Beer), `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

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

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

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

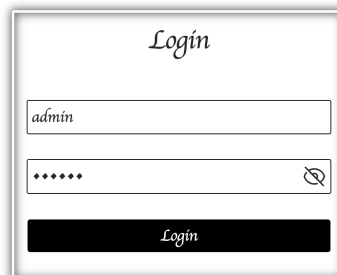
Pretty Raw Preview Visualize JSON

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

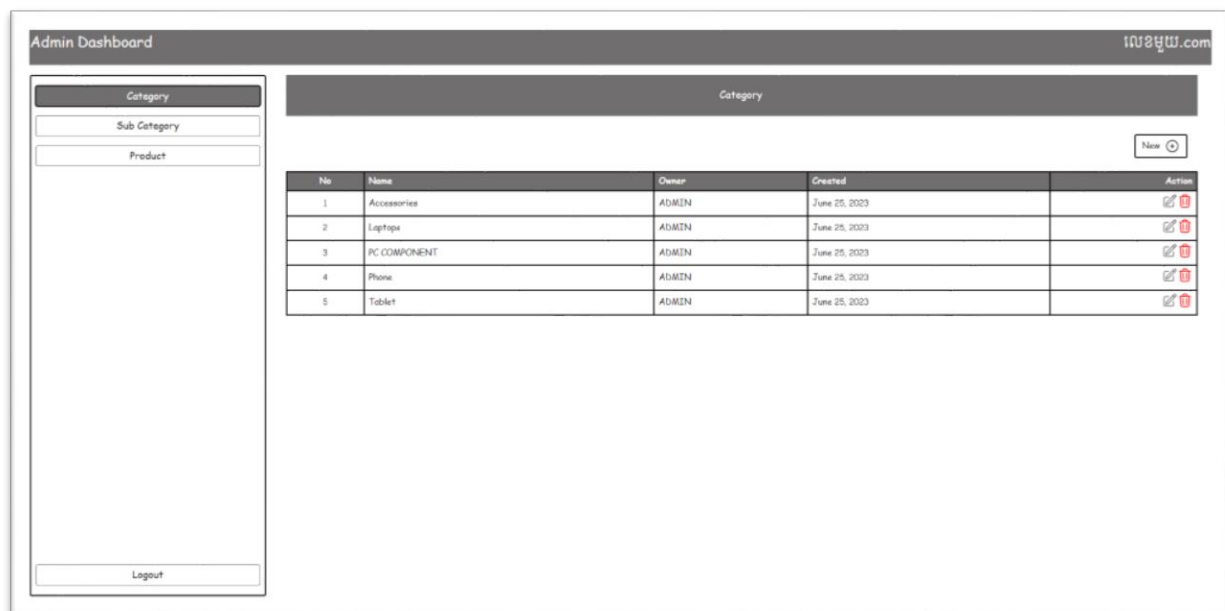
## Ex2: VueJS











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 an eye icon to toggle visibility. Below the fields is a black button with the text "Login" in a light gray font.

### 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. The "Action" column has two icons: a pencil and a trash can. 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	JOYO PowerBank A24L 5000mAh	Accessories	Chargers & Power Adapters	ADMIN	June 25, 2023	 
7	Power bank B722A	Accessories	Chargers & Power Adapters	ADMIN	June 25, 2023	 



## View Details Product

The screenshot shows the Admin Dashboard with a sidebar containing 'Category', 'Sub Category', 'Product', and 'Logout'. A modal window titled 'Phone Case LIXUEYING Retro Mini TV | 2023-06-25' is open, displaying the following details:

- Id: 64984ea915cfc1665404757
- Name: Phone Case LIXUEYING Retro Mini TV
- Category: I
- SubCategory: I
- User: I
- Price table:

	Shop 1	Shop 2	Shop 3
64985fca4fa15d1f856f9a4	18 \$		
64985fca4fa15d1f856f9a5		17 \$	
64985fca4fa15d1f856f9a6			19 \$

The background shows a table of products with columns: No, Name, Category, Owner, Created, and Action.

## Creation

## Add new Category

The screenshot shows the Admin Dashboard with a sidebar containing 'Category', 'Sub Category', 'Product', and 'Logout'. A modal window titled 'New Category' is open, showing a form to add a new category:

Category name:

Buttons: Cancel, Save

The background shows a table of categories with columns: No, Name, Category, Owner, Created, and Action.

## Add new sub category

Admin Dashboard

Category

Sub Category

Product

Logout

New Sub Category

Sub Category name: L6 TV

Category: TV

Cancel Save

No	Name	Category	Owner	Created	Action
1	Mouse Padase		ADMIN	June 25, 2023	
2	Chargers & Power Adapters		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	Lip	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: Aax Rag Mouse Pad

Category: Accessories

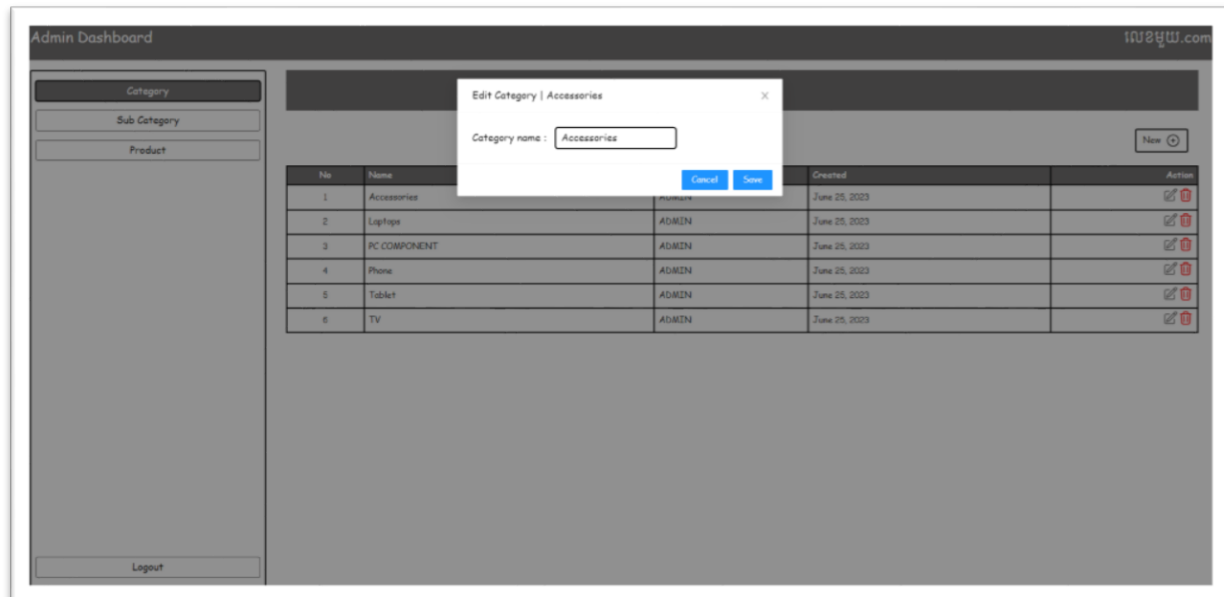
Sub Category: Mouse Padase

Cancel Save

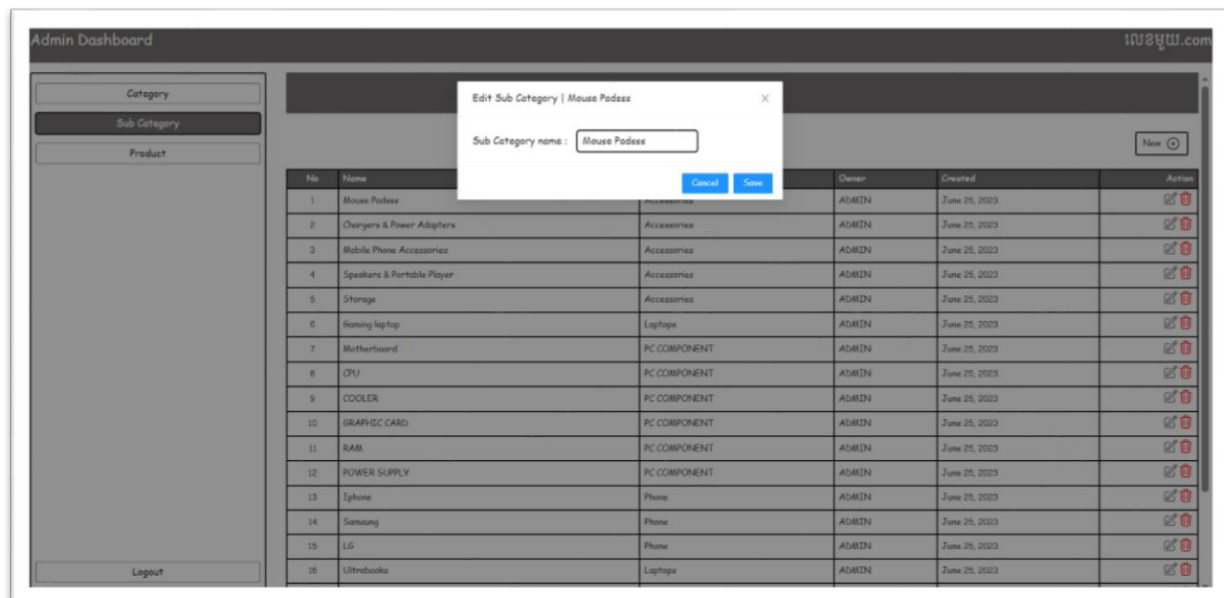
No	Name	Category	Owner	Created	Action
1	Aax Rag Sheathes		ADMIN	June 25, 2023	
2	Aax Rag Strive Edge		ADMIN	June 25, 2023	
3	CORSAIR RMU100		ADMIN	June 25, 2023	
4	Razer Firefly V2		ADMIN	June 25, 2023	
5	Razer Sphex V2		ADMIN	June 25, 2023	
6	JOKO PowerBank A24L 5000mAh	Accessories	ADMIN	June 25, 2023	
7	Power bank BT22A	Accessories	ADMIN	June 25, 2023	

## Update

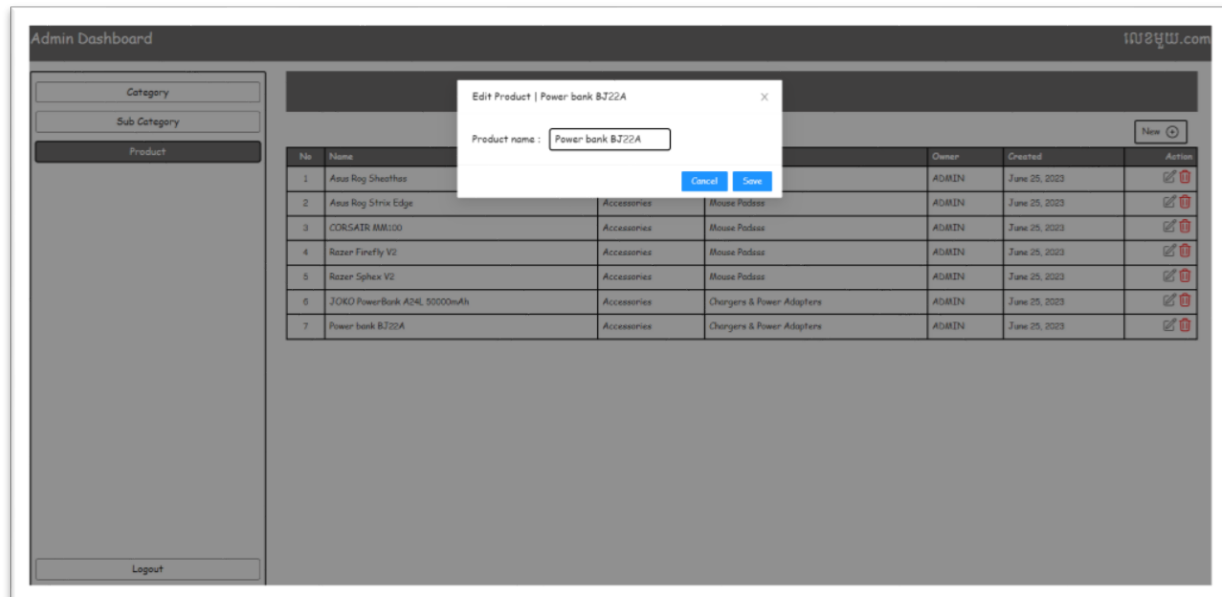
## Update Category



## Update Sub Category



## Update Product

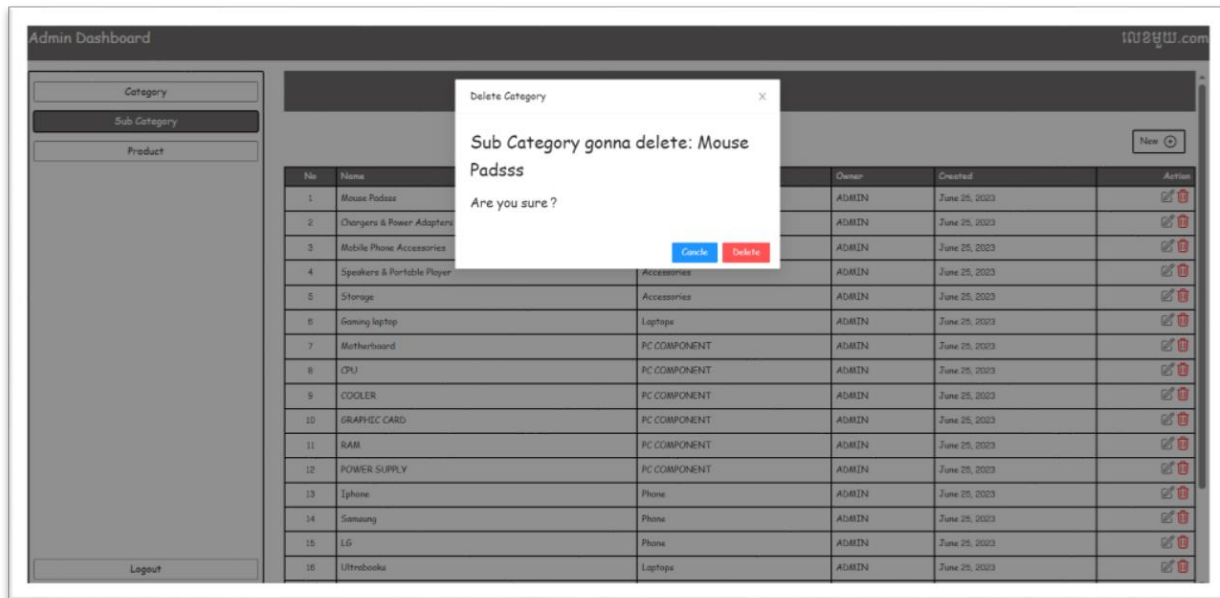


## Delete

### Delete Category



## Delete Sub-category



## Delete Product

