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    "MBA",
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        "Data Analysis",
        "Microsoft Word",
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BTP)",
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  ],
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        "Canva",
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        "Digital Painting",
        "Adobe InDesign",
        "Design Theory",
      ],
    },
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      subSubCategories: [
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"Midjourney",
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"SOLIDWORKS",
"Procreate Digital Illustration App",
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],
},
{
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    "User Interface Design",
    "UX Writing(User Experience Writing)",
    "Product Design",
    "Adobe XD",
    "Design Thinking",
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    "zBrush",
    "Unreal Engine",
  ],
},
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    "Beauty & Makeup",
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    "Food & Beverage",
    "Gaming",
  ],
},
{
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    "Photography Tools",
  ],
},
{
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  subCategories: [
    "Fitness",
    "General Health",
    "Sports",
    "Yoga",
  ],
},
}
```

] create mongoose schema for this qarray and  
also for subcategory and subsubcategory

## ChatGPT

To create Mongoose schemas for the provided data structure, we need to define schemas for category, subcategory, and subsubcategory. Here's how you can do it:

javascript



Copy code

```
const mongoose = require('mongoose'); const Schema = mongoose.Schema; // Subsubcategory Schema const subSubCategorySchema = new Schema({ name: { type: String, required: true } }); // Subcategory Schema const subCategorySchema = new Schema({ name: { type: String, required: true }, subSubCategories: [subSubCategorySchema] }); // Category Schema const categorySchema = new Schema({ category: { type: String, required: true }, subCategories: [subCategorySchema] }); // Model const Category = mongoose.model('Category', categorySchema); module.exports = Category;
```

This schema structure assumes that each category can have multiple subcategories, and each subcategory can have multiple subsubcategories. Adjustments can be made according to your specific requirements.

## You

create category,subcategoryand subsubcategory routes for above following schema

## ChatGPT

To create routes for CRUD operations for the Category, Subcategory, and Subsubcategory schemas using Express and Mongoose, you can follow the example below:

First, make sure you have Express and Mongoose installed:

bash



Copy code

```
npm install express mongoose
```

Then, you can create your routes. Here's an example:

javascript

 Copy code

```
const express = require('express'); const router =
express.Router(); const Category =
require('./models/category'); // Create a new category
router.post('/category', async (req, res) => { try {
const category = new Category(req.body); await
category.save(); res.status(201).send(category); }
catch (error) { res.status(400).send(error); } }); //
Get all categories router.get('/categories', async
(req, res) => { try { const categories = await
Category.find(); res.send(categories); } catch (error)
{ res.status(500).send(error); } }); // Create a new
subcategory within a category
router.post('/category/:categoryId/subcategory', async
(req, res) => { try { const category = await
Category.findById(req.params.categoryId); if
(!category) { return res.status(404).send({ error:
'Category not found' }); }
category.subCategories.push(req.body); await
category.save(); res.status(201).send(category); }
catch (error) { res.status(400).send(error); } }); //
Create a new subsubcategory within a subcategory
router.post('/category/:categoryId/subcategory/:subCategory',
async (req, res) => { try { const category = await
Category.findById(req.params.categoryId); if
(!category) { return res.status(404).send({ error:
'Category not found' }); } const subCategory =
category.subCategories.id(req.params.subCategoryId); if
(!subCategory) { return res.status(404).send({ error:
'Subcategory not found' }); }
subCategory.subSubCategories.push(req.body); await
category.save(); res.status(201).send(category); }
catch (error) { res.status(400).send(error); } });
module.exports = router;
```

Remember to adjust these routes according to your application's specific requirements and authentication needs. Additionally, don't forget to include error handling and validation as needed.

You

```
import React, { useState } from "react";
//import { Link } from "react-router-dom";

const Dropdown = () => {
  const [showDropdown, setShowDropdown] =
useState(false);
  const [selectedDropdown, setSelectedDropdown] =
useState(null);
  const [selectedSubDropdown, setSelectedSubDropdown]
= useState(null);
  // const [selectedSubSubDropdown,
setSelectedSubSubDropdown] = useState(null);

  const toggleDropdown = () => {
    setShowDropdown(!showDropdown);
    setSelectedDropdown(null);
    setSelectedSubDropdown(null); // Reset selected sub-
dropdown when main dropdown is toggled
    // setSelectedSubSubDropdown(null); // Reset selected
sub-sub-dropdown when main dropdown is toggled
  };

  const toggleSubDropdown = (dropdown) => {
    if (selectedDropdown === dropdown) {
      setSelectedDropdown(null); // Close sub-dropdown if
already open
    } else {
      setSelectedDropdown(dropdown); // Show sub-
dropdown for the selected item
    }
    setSelectedSubDropdown(null); // Reset selected sub-
dropdown when main dropdown is toggled
    // setSelectedSubSubDropdown(null); // Reset selected
sub-sub-dropdown when main dropdown is toggled
  };

  const toggleSubSubDropdown = (subDropdown) => {
    if (selectedSubDropdown === subDropdown) {
      setSelectedSubDropdown(null); // Close sub-sub-
dropdown if already open
```

```

    } else {
      setSelectedSubDropdown(subDropdown); // Show sub-
sub-dropdown for the selected item
    }
    // setSelectedSubSubDropdown(null); // Reset selected
sub-sub-dropdown when main dropdown is toggled
  };

```

```

const handleSubSubSubDropdown = (subSubDropdown)
=> {};
return (
  <div className="flex">
    <div>
      <div className="relative">
        <button
          className="text-gray-900 dark:text-white text-xl
flex items-center"
          onClick={toggleDropdown}>
          <span>Category</span>
          <svg
            className={`h-4 w-4 ml-1 transition-transform
duration-200 transform ${
              showDropdown ? "rotate-180" : ""
            }}
            fill="currentColor"
            viewBox="0 0 20 20"
            xmlns="http://www.w3.org/2000/svg">
              <path
                fillRule="evenodd"
                d="M6.293 7.293a1 1 0 011.414 0L10 9.586l2.293-
2.293a1 1 0 011.414 1.414l-3 3a1 1 0 01-1.414 0l-3-3a1 1 0
010-1.414z"
                clipRule="evenodd"
              />
            </svg>
          </button>
          {showDropdown && (
            <div
              className="absolute z-10 mt-2 origin-top-right
bg-slate-200 rounded-lg shadow-lg"

```

```
style={{
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  left: "-300px",
  height: "32rem",
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}}>
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              "Artificial Intelligence",
              "Natural Languages Processing",
              "LangChain",
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              "Data Analysis",
            ],
          },
        ],
      }
    }
  </div>
</div>
```

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          "Business Strategy",  
          "Startup",  
          "Online Business",  
          "Business Plan",  
          "Instagram Marketing",  
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          "Public Speaking",  
          "Presentation Skills",  
          "Writing",  
          "Fiction Writing",  
          "Business Communication",  
          "Assertiveness",  
          "Business Writing",  
          "Email Writing and Etiquette",  
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    "Customer Service",
    "Cold Calling",
    "Sales Management",
    "Lead Generation",
    "Business Development",
    "Customer Success Management",
  ],
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  subSubCategories: [
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    "Management Consulting",
    "TOGAF",
    "Digital Transformation",
    "Strategic Planning",
  ],
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    "Operations Management",
```

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      "PMI CAPM",  
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      "Agile",  
      "Professional Scrum Master(PSM)",  
      "PRINCE2",  
      "Product Ownership",  
    ],  
  },  
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        "CompTIA Security+",  
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        "Amazon AWS",  
        "CCNA",  
        "AWS Certified Developer-Associate",  
        "Informaion Security",  
      ],  
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    "Windows Server",
    "Active Directory",
    "Shell Scripting",
    "PowerShell",
    "Linux Command Line",
    "System Administration",
    "Linux LPIC-1",
  ],
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],
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{
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  subCategories: [
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      subSubCategories: [
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        "Excel VBA",
        "Microsoft Power BI",
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  ],
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  "Microsoft Word",
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    "Google Workspace(G Suite)",
    "Google AppSheet",
    "Gmail Productivity",
    "Google Apps Script",
    "Google Looker",
    "Google Drive",
    "Excel",
  ],
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"Design Theory",
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    "Midjourney",
    "Adobe Photoshop",
    "SOLIDWORKS",
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    "ChatGPT",
    "Adobe Premiere",
    "Adobe Illustrator",
  ],
},
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    "User Interface Design",
    "UX Writing(User Experience Writing)",
    "Product Design",
    "Adobe XD",
    "Design Thinking",
    "Web Accessibility",
    "Web Design",
  ],
},
{
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  subSubCategories: [
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    "3D Modeling",
    "Adobe After Effects",
    "Motion Graphics",
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  ],
},
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},
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  subCategories: [
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    "Search Engine Optimization",
    "Social Media Marketing",
    "Branding",
    "Marketing Fundamentals",
  ],
},
{
  category: "Lifestyle",
  subCategories: [
    "Arts & Crafts",
    "Beauty & Makeup",
    "Esoteric Practices",
    "Food & Beverage",
    "Gaming",
  ],
},
{
  category: "Photography & Video",
  subCategories: [
    "Digital Photography",
    "Photography",
    "Portrait Photography",
    "Photography Tools",
  ],
},
{
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```



```

      subCategories: [
        "Fitness",
        "General Health",
        "Sports",
        "Yoga",
      ],
    },
  ].map((categoryItem) => (
    <div key={categoryItem.category}>
      <button
        className="px-4 py-2 text-sm text-black
        hover:bg-gray-700 hover:text-white flex"
        onClick={() =>
          toggleSubDropdown(categoryItem.category)
        }>
        <span>{categoryItem.category}</span>
        <svg
          className={`h-4 w-4 ml-1 mt-1 transition-
            transform duration-200 transform ${
              selectedDropdown ===
              categoryItem.category
                ? "rotate-90"
                : ""
            }`}
          fill="currentColor"
          viewBox="0 0 20 20"
          xmlns="http://www.w3.org/2000/svg">
            <path
              fillRule="evenodd"
              d="M6.293 7.293a1 1 0 011.414 0L10
              9.586l2.293-2.293a1 1 0 111.414 1.414l-3 3a1 1 0 01-1.414
              0l-3-3a1 1 0 010-1.414z"
              clipRule="evenodd"
            />
          </svg>
        </button>
        {selectedDropdown ===
          categoryItem.category && (
            <div

```

```

      className="absolute right-0 top-0 mt-0
ml-10 bg-slate-200 rounded-lg shadow-lg"
      style={{
        width: "18rem",
        left: "247.5px",
        height: "32rem",
        border: "1px solid gray",
      }}>

```

```

{categoryItem.subCategories.map((subCategory) => (
  <div key={subCategory.name ||
subCategory}>
    <button
      className="px-4 py-2 text-sm
hover:bg-gray-700 hover:text-white flex"
      onClick={() =>
        typeof subCategory === "object"
        ?
toggleSubSubDropdown(subCategory.name)
        :
toggleSubSubDropdown(subCategory)
      }>
      <span>
        {typeof subCategory === "object"
        ? subCategory.name
        : subCategory}
      </span>
      <svg
        className={`h-4 w-4 ml-1 mt-1
transition-transform duration-200 transform ${
          selectedSubDropdown ===
subCategory.name
            ? "rotate-90"
            : ""
        }`}
        fill="currentColor"
        viewBox="0 0 20 20"

```

```

xmlns="http://www.w3.org/2000/svg">
  <path

```

```

        fillRule="evenodd"
        d="M6.293 7.293a1 1 0 011.414 0L10
9.586l2.293-2.293a1 1 0 11.414 1.414l-3 3a1 1 0 01-1.414
0l-3-3a1 1 0 010-1.414z"
        clipRule="evenodd"
      />
    </svg>
  </button>
  {typeof subCategory === "object" &&
    selectedSubDropdown ===
    subCategory.name && (
    <div
      className="absolute right-0 top-0
mt-0 ml-10 bg-slate-200 rounded-lg shadow-lg"
      style={{
        width: "18rem",
        left: "247px",
        height: "32rem",
        border: "1px solid gray",
      }}>
      <div>Popular Topics</div>
      {subCategory.subSubCategories.map(
        (subSubCategory) => (
          <button
            key={subSubCategory}
            className="px-4 py-2 text-sm
hover:bg-gray-700 hover:text-white flex"
            onClick={() =>
              handleSubSubSubDropdown
            }>
            <span>{subSubCategory}
          </span>
        </button>
      )
    )}
    </div>
  )}
</div>
)))
</div>

```

```

    })
  </div>
  })}
</div>
</div>
</div>
  })
</div>
</div>
</div>
);
};

```

export default Dropdown;

remove category,subcategoryand subsubcategory array and  
fetch data from fetcategory from above routes.make  
changes

### ChatGPT

To fetch the category, subcategory, and subsubcategory data  
from the backend using the provided routes, you need to make  
changes to the Dropdown component. Here's how you can do it:

javascript

 Copy code

```

import React, { useState, useEffect } from "react";
import axios from "axios"; const Dropdown = () => {
const [showDropdown, setShowDropdown] =
useState(false); const [categories, setCategories] =
useState([]); const [selectedDropdown,
setSelectedDropdown] = useState(null); const
[selectedSubDropdown, setSelectedSubDropdown] =
useState(null); useEffect(() => { const fetchCategories
= async () => { try { const response = await
axios.get("/api/categories");
setCategories(response.data); } catch (error) {
console.error("Error fetching categories:", error); }
}; fetchCategories(); }, []); const toggleDropdown = ()
=> { setShowDropdown(!showDropdown);
setSelectedDropdown(null);
setSelectedSubDropdown(null); }; const
toggleSubDropdown = (dropdown) => { if

```

```

(selectedDropdown === dropdown) {
  setSelectedDropdown(null); } else {
  setSelectedDropdown(dropdown); }
  setSelectedSubDropdown(null); }; const
  handleSubSubDropdown = (subSubDropdown) => {
    console.log("Selected sub-sub-dropdown:",
    subSubDropdown); }; return ( <div className="flex">
    <div> <div className="relative"> <button
    className="text-gray-900 dark:text-white text-xl flex
    items-center" onClick={toggleDropdown} >
    <span>Category</span> <svg className={`h-4 w-4 ml-1
    transition-transform duration-200 transform ${
    showDropdown ? "rotate-180" : "" }`}
    fill="currentColor" viewBox="0 0 20 20"
    xmlns="http://www.w3.org/2000/svg" > <path
    fillRule="evenodd" d="M6.293 7.293a1 1 0 011.414 0L10
    9.586l2.293-2.293a1 1 0 011.414 1.414l-3 3a1 1 0 01-
    1.414 0l-3-3a1 1 0 010-1.414z" clipRule="evenodd" />
    </svg> </button> {showDropdown && ( <div
    className="absolute z-10 mt-2 origin-top-right bg-
    slate-200 rounded-lg shadow-lg" style={{ width:
    "18rem", left: "-300px", height: "32rem", border: "1px
    solid gray", marginTop: "56px" }}> <div className="py-
    1"> <div className="px-10 pt-2 pb-4 space-y-1">
    {categories.map((categoryItem) => ( <div key=
    {categoryItem.category}> <button className="px-4 py-2
    text-sm text-black hover:bg-gray-700 hover:text-white
    flex" onClick={() =>
    toggleSubDropdown(categoryItem.category)}> <span>
    {categoryItem.category}</span> <svg className={`h-4 w-4
    ml-1 mt-1 transition-transform duration-200 transform
    ${selectedDropdown === categoryItem.category ? "rotate-
    90" : ""}`} fill="currentColor" viewBox="0 0 20 20"
    xmlns="http://www.w3.org/2000/svg"> <path
    fillRule="evenodd" d="M6.293 7.293a1 1 0 011.414 0L10
    9.586l2.293-2.293a1 1 0 011.414 1.414l-3 3a1 1 0 01-
    1.414 0l-3-3a1 1 0 010-1.414z" clipRule="evenodd" />
    </svg> </button> {selectedDropdown ===
    categoryItem.category && ( <div className="absolute
    right-0 top-0 mt-0 ml-10 bg-slate-200 rounded-lg
    shadow-lg" style={{ width: "18rem", left: "247.5px",
    height: "32rem", border: "1px solid gray" }}>
    {categoryItem.subCategories.map((subCategory) => ( <div
    key={subCategory.name || subCategory}> <button
    className="px-4 py-2 text-sm hover:bg-gray-700
    hover:text-white flex" onClick={() => typeof

```

```

subCategory === "object" ?
toggleSubSubDropdown(subCategory.name) :
toggleSubSubDropdown(subCategory)}}> <span>{typeof
subCategory === "object" ? subCategory.name :
subCategory}</span> <svg className={`h-4 w-4 ml-1 mt-1
transition-transform duration-200 transform
${selectedSubDropdown === subCategory.name ? "rotate-
90" : ""}`} fill="currentColor" viewBox="0 0 20 20"
xmlns="http://www.w3.org/2000/svg"> <path
fillRule="evenodd" d="M6.293 7.293a1 1 0 011.414 0L10
9.586l2.293-2.293a1 1 0 111.414 1.414l-3 3a1 1 0 01-
1.414 0l-3-3a1 1 0 010-1.414z" clipRule="evenodd" />
</svg> </button> {typeof subCategory === "object" &&
selectedSubDropdown === subCategory.name && ( <div
className="absolute right-0 top-0 mt-0 ml-10 bg-slate-
200 rounded-lg shadow-lg" style={{ width: "18rem",
left: "247px", height: "32rem", border: "1px solid
gray" }}> <div>Popular Topics</div>
{subCategory.subSubCategories.map((subSubCategory)=> (
<button key={subSubCategory} className="px-4 py-2 text-
sm hover:bg-gray-700 hover:text-white flex" onClick={()
=> handleSubSubSubDropdown(subSubCategory)}> <span>
{subSubCategory}</span> </button> ))} </div> )) </div>
))} </div> )) </div> ))} </div> </div> </div> )) </div>
</div> </div> ); }; export default Dropdown;

```

In this code:

**useEffect** hook is used to fetch categories from the backend when the component mounts.

The fetched categories are stored in the **categories** state.

Instead of hardcoding the categories, the data fetched from the backend is used to render the dropdown menu.

**axios** is used for making HTTP requests to fetch data from the backend API. Make sure to install Axios (**npm install axios**) and configure your backend routes properly for this to work.