Guestara

<u>Internship Assignment: NodeJs Backend</u>

Assignment Overview:

Create a Nodejs backend server for menu management.
The menu will be divided into 3 parts in the following order:

    a. Category
    b. Sub Category: A category can have multiple sub-categories
    c. Items: A Subcategory can have multiple items in it

** To demo the application, you can use Postman.

Assignment Objectives

1. Project setup
2. Create Category, Subcategory & Items
3. Get Category, Subcategory & Items
4. Edit Category, Subcategory & Items
5. Search by item name
6. Documentation

Project Setup

- Setup the project using Nodejs & Express JS
- Database: You're free to use any database of your choice.

CREATE

- **Create Category**
  - API to create a category
  - Attributes to create a category:
    - Name: String
    - Image: URL
    - Description: String
    - Tax Applicability: Boolean
    - Tax: Number, if applicable
    - Tax type
- **Create Sub Category**
  - Sub-categories will be created under a category
  - A category can have multiple subcategories in it
  - Sub-category is optional
  - API to create a sub-category under a category
  - Attributes to create a sub-category:
    - Name: String
    - Image: URL

- ■ Description: String
- ■ Tax Applicability: Boolean, Default: Category tax applicability
- ■ Tax: Number, Default: Category tax number
- ● **Create Items**
  - ○ Items will be created under a sub-category or a category
  - ○ A sub-category can have multiple items in it
  - ○ API to create items
  - ○ Attributes to create an item:
    - ■ Name: String
    - ■ Image: URL
    - ■ Description: String
    - ■ Tax Applicability: Boolean
    - ■ Tax: Number, if applicable
    - ■ Base Amount: Number
    - ■ Discount: Number
    - ■ Total Amount: Number (Base - Discount)

GET

- ● **Get Category**
  - ○ API to get all categories
  - ○ API to get a category by name or ID along with its attributes
- ● **Get Sub Category**
  - ○ API to get all sub-categories
  - ○ API to get all sub categories under a category
  - ○ API to get a sub-category by name or ID along with its attributes
- ● **Get Items**
  - ○ API to get all items
  - ○ API to get all items under a category
  - ○ API to get all items under a sub-category
  - ○ API to get an item by name or ID along with its attributes

EDIT

- ● **Edit Category**
  - ○ API to edit category attributes
- ● **Edit Sub Category**
  - ○ API to edit sub category attributes
- ● **Edit Items**
  - ○ API to edit item attributes

SEARCH item

- ● API to search the item by its name

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Documentation

- Provide inline comments in code for clarity wherever needed.
- Create a short [Loom](#) video explaining all the operations.
- Host the code on your personal Github repository
- Write a README.md file with instructions on how to run the application locally and any other relevant information.
- Short answer to the following questions:
    - Which database you have chosen and why?
    - 3 things that you learned from this assignment?
    - What was the most difficult part of the assignment?
    - What you would have done differently given more time?

Deadline

- Share the GitHub & Live link while submitting the project
- To be submitted on Wellfound by 19 May 2024, 11 pm.