:hometask by Connect

Develop a simple REST API for a web management system that allows users to manage their items and categories. This system should provide endpoints for adding and updating items, add categories and general search

requirements:

- create tables for items, items_volumes and categories and any other tables of your choice.
- create a mock data for at least 10 items and 2 categories.
- item should be related to a category.
- item must have at least 1 item volume.
- each volume has a price and number of months / entries.
- item_volume price should be unique for each item id.
- the name of each item should be unique.

endpoints:

- POST **/items**

  create / update an item

  ```
  request example: {
          name: “פריט לדוגמא”,
          price: 100.00,
          categoryId: 1,
          volumes: [ … ]

  }

  response:
          {
                  success: true,
                  code: 200,
                  data: {
                          id: 1,
                          name: “פריט לדוגמא”,
                          volumes: [
                                  {
                                          value: 10 כניסות,
                                          price: 100.00
                                  },
                                  {
                                          value: 2 חודשים,
                                          price: 150.00
                                  },
                          ]
  ```

```
                }
        }
```

- **GET /category/:id**

  get category details and all the items related to it

  response:

  ```
          {
                  success: true,
                  code: 200,
                  data: {
                          category: {
                                  id: 1,
                                  name: “קטגוריה לדוגמה”,
                                  items: [ … ]
                          }
                  }
          }
  ```

- **GET /items**

  get all items list

  response:

  ```
          {
                  success: true,
                  code: 200,
                  data: {
                          items: [ … ]
                  }
          }
  ```

- **GET /item/:id**

  get item details by id

  response:

  ```
          {
                  success: true,
                  code: 200,
                  data: {
                          id: 1
                          name: “פריט לדוגמא”,
                          volumes: [
                                  {
                                          value: 10 כניסות,
                                          price: 100.00
  ```

```
                },
                {
                    value: 2 חודשים,
                    price: 150.00
                },
            ]
        }
    }
```

- `GET` **/item/search**

  search item or category by input string. the response should include array of categories & array of items that matches item or category (you can expand the search as you like)

  response:

  ```
      {
          success: true,
          code: 200,
          data: {
              categories: [ … ],
              items: [ … ]
          }
      }
  ```

- `POST` **/category**

  add new category

  request example: {

  ```
      name: “קטגוריה לדוגמה”,
  }
  ```

  response:

  ```
      {
          success: true,
          code: 200,
          data: {
              id: 1
              name: “קטגוריה לדוגמה”
          }
      }
  ```

Database:

- Use any SQL database of your choice.
- Design the necessary tables to support the operations

Technologies:

- please use either **node js or laravel** for the rest api implementation

Security/Validation:

- Validate inputs to ensure they are of the correct form and type before processing.
- implement error handling in case of bad requests.
- **Implement basic API key authentication to secure the endpoints**.

Documentation:

- Provide a simple README file that includes instructions on how to set up and run your project, including any environment variables needed and steps to initialize the database.