

# Coding Challenge

This is the task you need to tackle. We're interested in getting to know your coding style better. Keep in mind, this test is relatively straightforward and doesn't represent the complexities of our day-to-day missions. Enjoy!

Develop a REST or GraphQL application for managing a store Inventory.

You are provided with a JSON file (products.json) containing initial data for the store. You can use this data to load it into memory when starting the application. There is no need to use a real database.

**Implement the following features:**

- Allow creating new products with validation to ensure that the name is unique.
- Enable updating existing products.
  - Validate that the name is unique if you update the name.
- Enable deleting existing products.
  - Products with pending orders cannot be deleted.
- Display a list of products.
  - Default sorting should be by creation date.
  - Provide options for sorting and pagination.
  - Allow querying by name and description.
- Provide a functionality to retrieve products with low stock.
- Implement a functionality to retrieve the most popular items based on the number of items sold.

No need for UI implementation

Use Node.js with TypeScript.

Choose a framework (preferably Nest.js, but not mandatory).

Please provide the project as a public Github project, don't forget to Provide instructions on how to run the application locally.

Focus on code quality, maintainability, and scalability.

Feel free to use any additional libraries or tools that you find suitable for the task.