

NodeJS

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Preparations

Create an Express server that runs on port 3000 and implements one GET method for the route „/“ and returns {“productapi”:“1.0”}

Agenda

Task: We want to create a backend system that stores product data. The user can

A - Read all product data

B - Create a new product

C - Delete a product with a certain ID

A – Read all products

1. All products are stored in one JSON file `products.json`
 - Each product has
 - type (either “book”, “music” or “movie” – no other types allowed)
 - price
 - title
 - description
 - Id (a randomstring of 20 characters)
2. Think of how a JSON file with some products would look like. Make an example `products.json` and create 2-3 products with your text editor.
3. Implement a GET request that returns the whole `products.json`.

B – Create a new product

1. What HTTP-Method would you use to create a new product?
2. Implement that method using the module `fs`. Return the product information including a server-side generated ID by the module `randomstring`.

C – Delete a product

1. In the JSON array of products each product has an unique ID. Implement a method that reads the JSON file, looks for the proper ID and deletes that product. Afterwards, the JSON file should be saved again.
2. What HTTP-Method would you use to delete a product?
3. Implement that method using module fs.