

Assignment: Build a Simple Product API Using Express & FS

Goal:

Create a CRUD (Create - Read - Update - Delete) application using:

- Express as the Web Framework.
- fs module to store data inside a product.json file.
- Learn key concepts like middleware, routing, and file operations.

Requirements:

1. Build a complete RESTful API that supports the 4 main operations:

- Create new product (POST /api/products)
- Get all products (GET /api/products)
- Update a product (PATCH /api/products/:id)
- Delete a product (DELETE /api/products/:id)

2. Every student must use a middleware function to validate data during the Create operation.

Required fields:

- productName
- salary
- description
- category
- quantity

3. Students must include screenshots for each of the four operations to confirm proper functionality.

Notes:

- Organize code using folders (routes, controllers, dev).
- product.json file should be placed inside a dev folder.

- Use `async/await` for clean and readable code instead of callbacks.