

Tech Challenge

Position: Senior Software Engineer (Python)

Assignment Duration: 7 days

Assignment Overview

You are required to create a Product REST API using the provided CSV file. This file contains product records, with each product represented in a single line. Product attributes are separated by commas in the following order:

1. Product SKU (integer)
 2. Brand Name (string)
 3. Product Slug (string)
 4. Product Title (string)
 5. Quantity (integer)
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Deliverables

- Source Code
 - Documentation
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Requirements

- Use Python3
- The program should be self-contained and easy to run using any technology of your choice. This means we should be able to run the program easily.
- Provide clear documentation on:
 - How to set up and run the program.
 - Details of the REST API

Required Functionality

Following REST Endpoints :

1. List Products

- Product listing endpoint should return 10 products by default.
- Should return,
 - Product ID
 - SKU
 - Product Title
 - Brand Name
 - Product Slug

Note: product ID is not in the file, you need to find a way to return an ID

- Must support query parameters limit and skip
- Should be able to filter by brand name

2. Get Product

- Get a single product using product ID and should return all fields.

3. Create New Product

- Create product endpoint should accept:
 - Product SKU
 - Brand Name
 - Product Title
 - Quantity

Bonus Points

1. Docker Integration

2. Delete Endpoint

- Delete a product using product ID.
- A deleted product should return a 404 response in the product get request. See point number 2 in required functionality.

3. Coding Standards – follow PEP8 or any other coding standards with reasonable flexibility (doesn't have to follow all PEP8 rules)
4. Good Code Structure
5. OpenAPI based Rest API documentation