

Covestro Backend Assignment

Application Requirement

We would like you to create a Java/Kotlin based backend application using REST. Imagine the following requirements in the context of a real-life work scenario and write what you consider production-ready code. Use the frameworks as you see fit to build and test this.

It should contain the following endpoints:

- GET /api/products (get a list of products)
- GET /api/products/1 (get one product from the list)
- PUT /api/products/1 (update a single product)
- POST /api/products (create a product)

The list of products should be stored in an SQL database, which should be pre-populated with the products defined in the **products.json**, file - which application needs to load during start up.

Note: No need to provide an endpoint which consumes this file, the file needs to be processed during app start up and store the products defined in it.

The Product object needs to contain the fields:

- id (should be always system generated)
- name
- currentPrice
- currency
- category (which can be one of these predefined values: PCS, PUR, CAS)
- lastUpdate

Implementation

Make the code production ready. Provide a means to demonstrate the API. Make sure you use git from the start, and all generated code should be clearly in their own commit, so we can see what you modified or added. Use docker to let us easily run a working demo ourselves. Favor running software over being complete!

Note: Usage of H2 DB or any in memory DB is not recommended

Step 2

Add the *description* field to the product table and entity with DB migration.

We expect that the assignment will take you around 6 hours. Let us know how accurate this was.

Optional

1. Add pagination support to the products endpoint.
2. Add capability to search by name and/or filter by the category.
3. Secure the API

Submission and questions

Invite dev@asellion.com to your Gitlab or Github repo and grant it "developer" access. If you are using any other git platform then send us the public link.

Let us know if you have any questions and when you're done.

Lastly, enjoy! :) Looking forward to your completed assignment.