

Backend Developer Live Evaluation Case

Develop an application that scrapes and stores products from a given [Koton retailer webpage](#). Scraped products need to be searchable via a REST API with several parameters (like description, price range, color...) that is selected to distinguish products.

- Application should scrap the initial webpage to extract the product links programmatically then scrap each product on found links.
- Pagination is not required on the initial page, retrieving a number of products from initial response is sufficient.
- When the application is run consecutively, the same products must not be replicated on storage.
- Java language is preferred but not restricted to. Search API must be exposed via a REST API with a JSON response. However, framework, storage and library dependencies can be selected freely as suited to the case.
- Developing unit test cases is required.
- Search API response model is expected in a JSON format like in the example below. Storage model of this data can be completely different from this response.

```
{
  "id": "URL of the product",
  "title": "Title of the PRODUCT",
  "description": "Description of the product",
  "images": [{
    "uri": "FIRSTIMAGEURI"
  },
  {
    "uri": "NthIMAGE URI"
  }
  ],
  "datePublished": {
    "value": "DATE"
  },
  "productCategory": "Product Category(Ex: Woman-Dress)",
  "color": "Color of the product",
  "prices": [{
    "price": "price of the product",
    "currency": "currency of the price"
  },
  ],
  "discount": BOOLEANVALUE
}
```