LONCA

Software Developer
Case Study - Product Entry

Before You Start

Thank you for devoting your time and effort to this case.
Before you start few things to keep in mind:

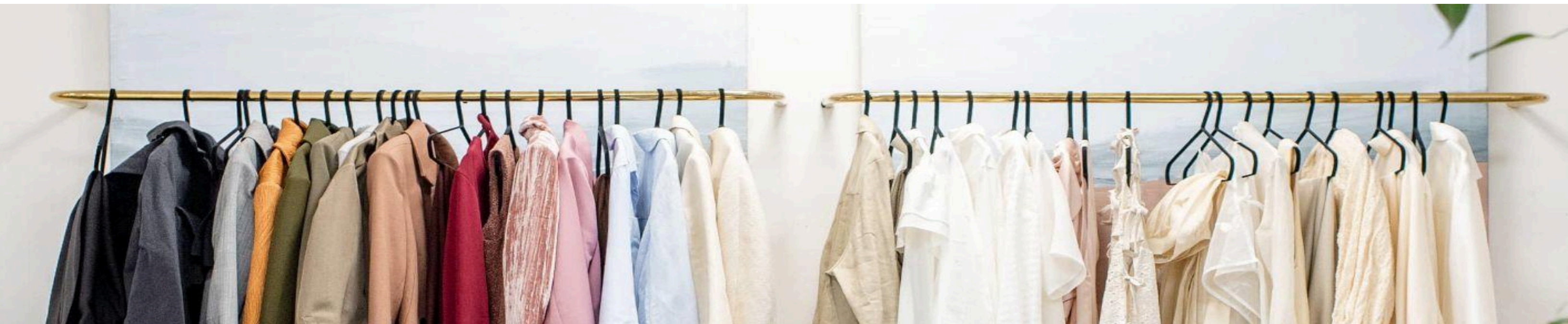
- Please make sure to understand details and expectations clearly.
- Please contact us, if there is any unclear content or if additional information is needed.
- Feel free to be creative and go beyond what we expect.

Introduction

At Lonca, our Scraper Pipeline aims to seamlessly integrate and update supplier stock systems into ours in near real time. This case study presents a simplified version of our Scraper Project, specifically focusing on the Product Entry aspect. The case study is in Python and it should use MongoDB as the database.

The Task - Implementation Details

- The task is to extract products from the provided XML file and store them in a MongoDB collection.
- Each product document in the collection should follow the specified schema outlined in the sample document below.
- Your code should be able to work periodically. Meaning subsequent executions should not re-create existing products in MongoDB.
- You should format the data consistently; for instance, capitalize the first only first letter of product names. Feel free to use additional features for formatting.



Sample Document in MongoDB

```
{
_id: ObjectId('6418f4de4524cf0e32f26cd7')
stock_code: "2345-bej"
color: ["Bej"]
discounted_price: 16.20
images:["www.aday-butik-resim-sitesi/27356-sarı.jpeg","www.aday-butik-resim-sitesi/356-sarı.j
peg"]
]
is_discounted: False
name: "Nakışlı Elbise"
price: 16.20
price_unit: "USD"
product_type: "Elbise"
quantity: 3
sample_size: "XL"
series: "2S-2M-2L"
status: "Active"
fabric: "%95 Pamuk % 5 Polyester"
model_measurements: "Boy: 1.79m, Göğüs: 88cm, Bel: 62cm, Kalça: 93cm"
product_measurements: "Boy: 1.65cm, Kilo: 56"
createdAt: 2024-01-02T12:13:47.237+00:0
updatedAt: 2024-01-22T05:00:05.125+00:0
}
```

Evaluation Criteria

Your code will be evaluated based on the following criteria:

- Modularity, Readability and Robustness
- Efficiency: Ensuring efficiency even when dealing with thousands of products.
- Object Oriented Approach
- Git Usage: A well-structured Git repository that showcases version control is a must.
- README file: An explanatory README file is a must.