

# Development of a generic competitive intelligence tool in the field of e-commerce

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## Summary

1. Analysis of web scraping solutions
2. Study on the creation of a business around a web scraping tool (Business valuation)
3. Development of a data scraping tool for the e-commerce world

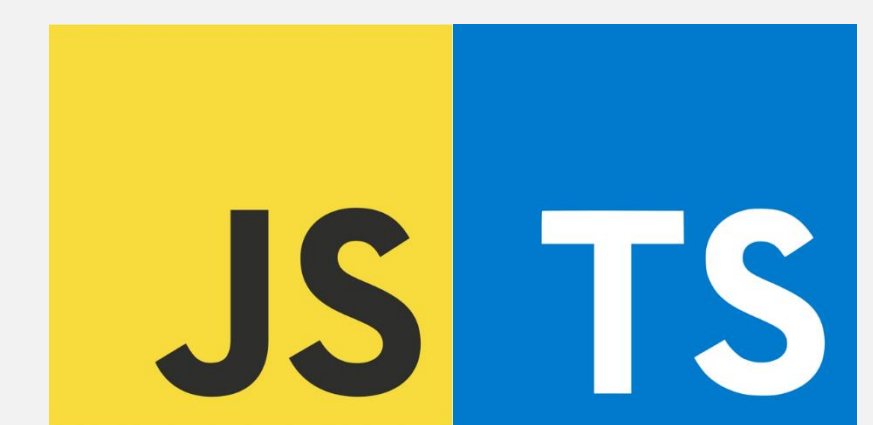
## Introduction

- Audacia is a Valaisan company specialized in the field of the e-commerce having the need to set up a tool allowing the collection of data of its competitors.
- The purpose of this project is to provide a prototype of an automated and digital price tracker, that helps e-commerce managers to take the right decision in terms of pricing their products.

## Methods

- An agile project management (Scrum) was applied,
- The REST API is used to expose the database,
- An UI was developed in react in order to configure the tool,
- The web scraper was developed in node.js and can collect product information.

## Technologies



## Results

Id ↑	Name	Ean13	Price	Manufacturer name	Create at	Updated at	
<input type="checkbox"/>	9e6119e5-1c42-4a78-a315-8ac889cf7d29	XPS 15 9520	X9D53	3005	Dell	7/30/2022, 10:47:42 AM	7/30/2022, 10:47:42 AM

```
→ ~/00_REPOSITORIES/BACHELOR/bachelor-thesis-price-tracker/application/apps/price-tracker-scraper git:(master) x node .
===== SCRAPED PRODUCT =====
Search path: https://www.galaxus.ch/search?q=X9D53
Product URLs list: [
  '/de/s1/product/dell-xps-15-9520-1560-intel-core-i9-12900hk-32-gb-1000-gb-ch-notebook-20635700?supplier=406802'
]
Product link: https://www.galaxus.ch/de/s1/product/dell-xps-15-9520-1560-intel-core-i9-12900hk-32-gb-1000-gb-ch-notebook-20635700?supplier=406802
Name: XPS 15 9520 (15.60 ", Intel Core i9-12900HK, 32 GB, 1000 GB, CH)
Price: 3049.00 CHF
=====
```

## Conclusions

- The web scraper can extract information like price, currency and product name. The scraper can retrieve more information depending on the configuration made.