# Technical Evaluation

**Special Instructions:**

- You are required to submit the tasks (WinRAR Zip file) by **Monday 14-12-2020 1 pm.**
- You may use scrapping and automation libraries like **<u>Scrapy</u>** and **<u>Selenium</u>** respectively to complete the described tasks.
- Please **add comments** in your code so it is easier to understand which part of the code is doing what.
- You will be asked to walk us through your code and questions might be asked during the demo.

This technical evaluation is based upon two tasks, the details of which are as follows:

## Task 1:

- Scrape the below mentioned website for all the names of **Product Categories** and their **Subcategories**
  https://www.analog.com/en/products.html#

Product Categories

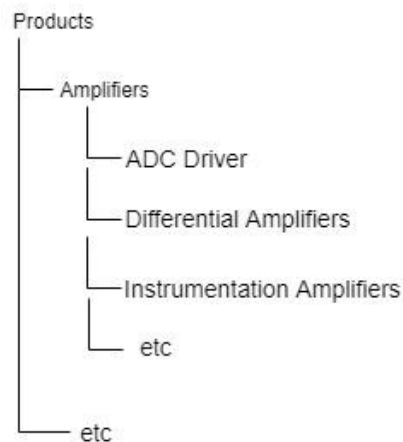| | |
|---|---|
| Amplifiers | Interface & Isolation |
| Analog Functions | Power Monitor, Control, & Protection |
| A/D Converters (ADC) | Optical Communications & Sensing |
| Audio & Video Products | Power Management |
| Clock & Timing | Processors & Microcontrollers |
| D/A Converters (DAC) | RF & Microwave |
| High Speed Logic & Data Path Management | Sensors & MEMS |
| Industrial Ethernet | Switches & Multiplexers |

## Amplifiers

Analog Devices amplifiers deliver high performance by combining circuit design and manufacturing process innovation to simplify signal conditioning design.

Subcategories

| | |
|---|---|
| ADC Drivers | RF Amplifiers |
| Differential Amplifiers | RF Power Detectors |
| Instrumentation Amplifiers | Specialty Amplifiers |
| Isolation Amplifiers | Variable Gain Amplifiers (VGA) |
| Operational Amplifiers (Op Amps) | Video Amplifiers & Analog Video Functions |

- The output of the web scrapper should be fed into a database (SQL or equivalent) where each Product Category should have its respective Subcategories under it.



Task2 :

- Scrape the below mentioned website for all the names of **Product Categories**, their **Subcategories** and all the **Products  and their Description** under each of those subcategories.
  https://www.st.com/content/st_com/en.html

- The output of the web scrapper should be fed into a database (SQL or equivalent) where each **Product Category** should have its respective **Subcategory**, **Product Name** and **Product Description** under it.

```
Products
│
├── Amplifiers and Comparators
│       │
│       ├─Automotive Comparators
│       │       │
│       │       └─TS391A
│       │               │
│       │               └─Low power, single voltage comparator
│       │
│       └── etc
│
└── etc
```