## Task statement

## 1. Process Monitoring Application:

- Write a Python application that will check all processes running on the current machine and output the following process statistics every x number of seconds (x should be configurable):
  - PID
  - Process name
  - CPU usage %
  - MEM usage %
  - **Bonus/Optional**: Add more statistics if you feel something is particularly important to monitor for a given PID.
- User should be able to order in both ascending and descending way the results by PID, process name, CPU usage, MEM usage
- Enhance the features of the application by implementing the following:
  - **Anomaly Detection**: Develop an algorithm to detect unusual spikes in CPU or memory usage and alert the user.
  - **Filtering by process name:** Provide an input field that allows users to filter results based on the process name.
  - **Bonus/Optional:** functionality that checks if a process is a child process to another
- 2. Expose all application functionalities via a JSON REST API
- 3. Web UI:
  - Create a simple web UI for visualizing the results. The web UI should display the process statistics in a user-friendly manner.
- 4. **Dockerfile**:
  - Make a Dockerfile for your app.