GROUP 11 PROPOSAL

Regex-Based Log Analyzer Proposal

For our project, we will build a log analyzer tool in Python that helps people make sense of messy server or app log files. The idea is that you'll be able to load a log file, set up a regex pattern to filter for things like errors or warnings, and the tool will extract key stats, such as the number of errors/warnings and the most common endpoints. We'll organize our code using classes, manage dependencies with pipenv, and track everything on GitHub. For the MVP, we'll keep it simple with a command-line interface, but if we have extra time, we might try adding a basic GUI or exporting results. We'll also write a couple of unit tests with pytest to ensure our core logic works as expected