SET Tooling Challenge

Position: Associate Software Engineer in Test - Tooling & Infrastructure
Time Limit: 48 - 72 Hours (Estimated 3-4 hours of active work)

Overview

The Engineering team at Veeva needs a way to track the health of our automated test suites. Your task is to build a **Test Health CLI & Reporter**. This tool will help engineers identify which tests are “flaky” or failing frequently.

The Task

You are required to build a small application (using **Java**) that processes a raw test output file and provides a summary report.

1: Data Processing

We will provide a sample result.json file containing:

- test_id: unique identifier of the test case
- test_name: Name of the test
- status: “PASS”, “FAIL” or “ERROR”
- duration: time in milliseconds
- timestamp: when the test ran

2: Requirements

- **The CLI Tool**: Build a command-line interface that reads the file and outputs:
  - The total number of tests run.
  - The overall Pass/Fail percentage.
  - The names of any tests that failed.
- **The "Infrastructure" Twist:** Referencing the Job DSL plugin documentation, please create a Jenkins job that meets the following requirements:
  - Scheduled **trigger** with **cron** for 9AM PST every day
  - Has a **string parameter** for the name of the result file
  - Has **timestamps**
  - Has **absolute timeout** of 10 minute
  - Checkout the CLI tool from **a maven based git repository**
  - Execute the CLI tool for input result file, and print out outputs at console

Submission Guidelines

Please provide a link to a private GitHub repository or a ZIP file containing:

- Source Code: Your application logic, including a file contains the Jenkins job definition
- README.md: Short instructions on how to build and run your tool, and a brief explanation of one "Infrastructure" improvement you would make if you had more time (e.g., AWS integration, Database storage).