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# JMeter CLI - Automated Performance Testing

## Overview

The **JMeter CLI** is an automation tool designed to streamline the execution of JMeter scripts. It provides a command-line interface for running performance tests, managing configurations, and generating detailed test reports.

## Key Features

- Easy selection of test modules and sub-modules.
- Configurable user input for performance parameters like number of users, ramp-up period, and loop count.
- Automated result generation in CSV and HTML formats.
- Flexible directory structure for scripts, data files, and output files.
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## Directory Structure

Here's the organized structure of the JMeter CLI:
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    config.json # Configuration file for script paths and settings
    datafiles/ # Directory containing input CSV files for JMeter scripts
    jmeter-scripts/ # Directory containing JMeter (.jmx) scripts
    output_files/ # Directory for storing test output (CSV/HTML)
    CSV Output/
    HTML Output/
    run.mjs # Main CLI script for automation
    docs/ # Learning and reference materials for JMeter
```

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## Installation

Install the CLI globally via [npm](https://www.npmjs.com/) to make it available as a command-line tool:

```bash npm install -g jmeter-cli
```

## Configuration

The config.json file defines server settings, script paths, and data file mappings. Below is an example:

- server\_ip: Replace with the IP of the target server.
- scriptPath: Path to the .jmx file.
- csvFileName: Input file used by the script.

### Usage

Run the CLI using the jmeter-cli command:

1. Start the CLI:

```
jmeter-cli
```

- 2. Follow the prompts:
  - Select a module: Choose a main test script.
  - **Select a sub-script** (if applicable).
  - Enter test parameters: Number of users, ramp-up period, and loop count.
- 3. The CLI runs the JMeter test and generates output files in the output\_files/ directory.

### Example

#### **Prompt Interaction:**

1. Select a module: Report Dashboard

2. Select a sub-module: Report Dashboard - PowerBI

3. Enter the number of users: 100

4. Enter the ramp-up period: 60

5. Enter the loop count: 10

#### Output:

- CSV file: output\_files/CSV Output/Report Dashboard/Report Dashboard PowerBI\_2025-01-12.csv
- HTML file: output\_files/HTML Output/Report Dashboard/Report Dashboard -PowerBI\_2025-01-12.html

### **Dependencies**

This CLI uses the following packages:

- chalk: For styled terminal output.
- inquirer: For interactive prompts.
- cheerio: For parsing JMX files.
- ora: For loading spinners.

Install dependencies:

npm install

# Contributing

We welcome contributions! If you have ideas or bug fixes, please submit a pull request or open an issue.

Suggestions or changes you'd like in this?