**API Test Automation**

## **Pre-requisites**

1. Java 11 or higher
2. Maven
3. Visual Studio code
4. VS Code plugin:

* Cucumber Gherkin
* Karate Runner
* Java Extension Pack

1. Postman

### **Environment variables (Windows)**

JAVA\_HOME

MAVEN\_HOME

M2\_HOME

Path variables pointing to bin are set

### **IDE**

Clone the repository from <https://github.com/Vijaya-Cog/TechTestAPIAutomation.git> and open the project folder in VS code

## **Run**

Before running the tests ensure the Sensyne API server is running locally on [http://localhost:5000/v1/ui/#/](http://localhost:5000/v1/ui/" \l "/) . This is done by following the README file provided by Sensyne.

To run from the VS code terminal use the command after navigating to the project folder : **mvn test**

### **Command line**

To run from the command line use the command **mvn test**  after navigating to the project folder

**Karate Framework Approach**

Karate DSL is BDD style open source API testing framework for Java. It makes use of the Cucumber feature file and the Gherkins language to write tests that is very easy to understand. Parallel testing is the core functionality and provides seamless support for CI/CD integration. It also supports integration with Gatling for performance testing.

I’ve enabled parallel execution of scripts and also used the data driven approach to execute the tests. I’ve also implemented the tags(@debug) to run specific tests: **mvn test "-Dkarate.options=--tags @debug" -Dtest=sensyneTest**

Also available in the repository are Dockerfile and docker-compose files.

**Docker**

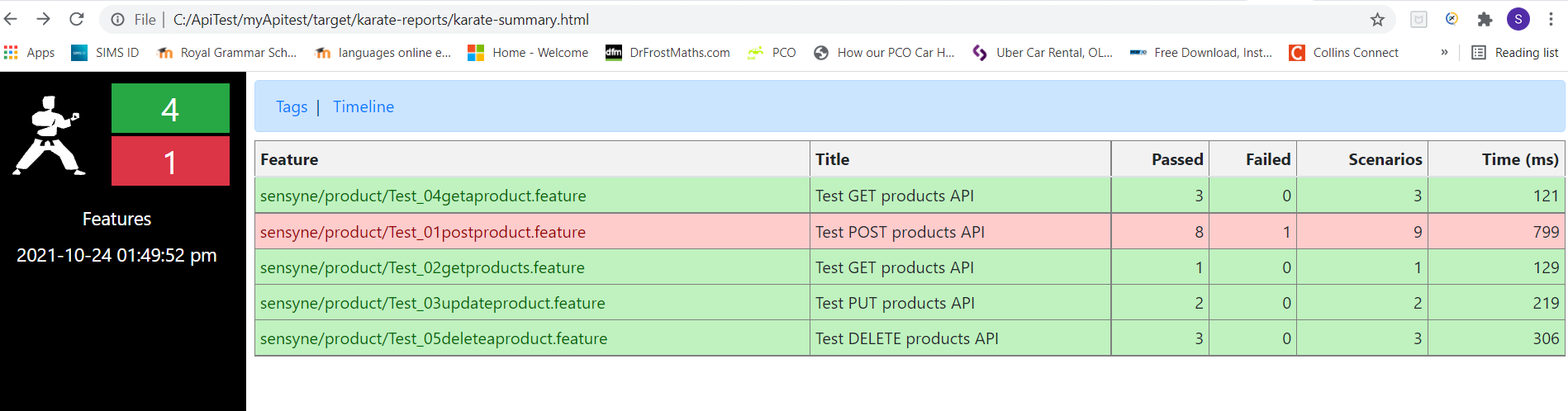
Dockerfile is created in the project folder.

**docker build -t karatetest .**

**docker run -it karatetest**

**Reports**

Reports are viewed by navigating to target folder ->Karate-reports -> **karate-summary.html**

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