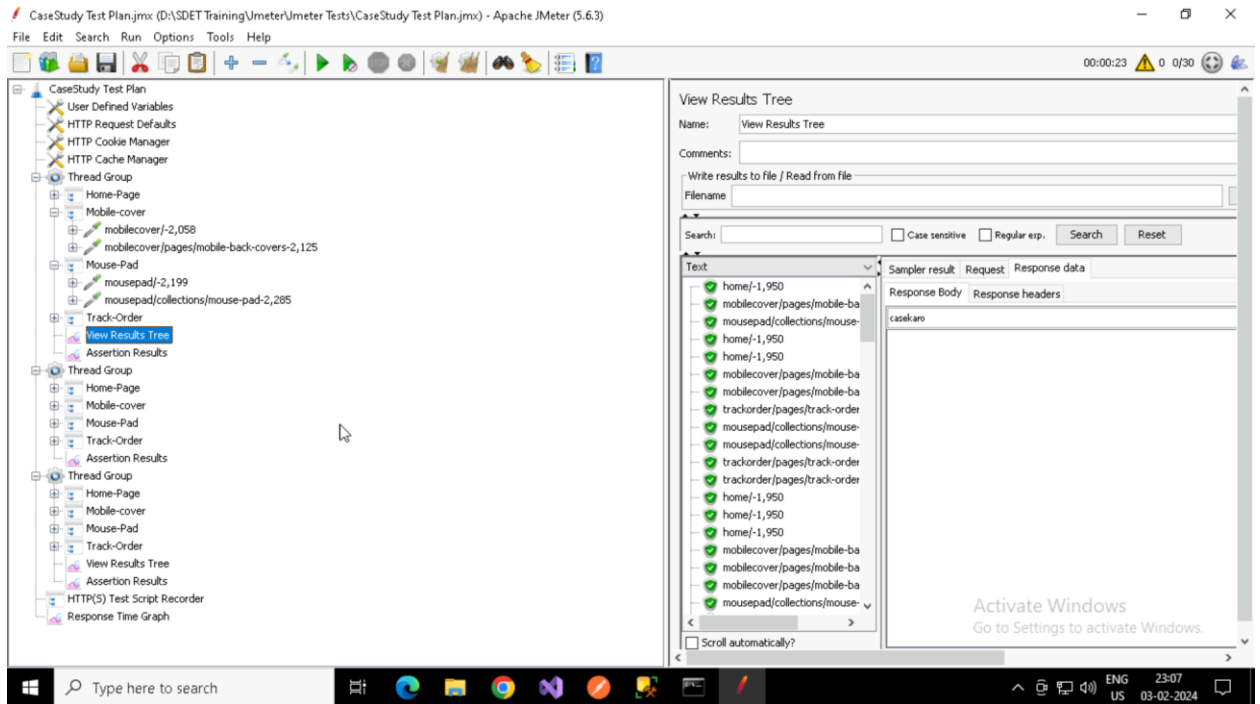
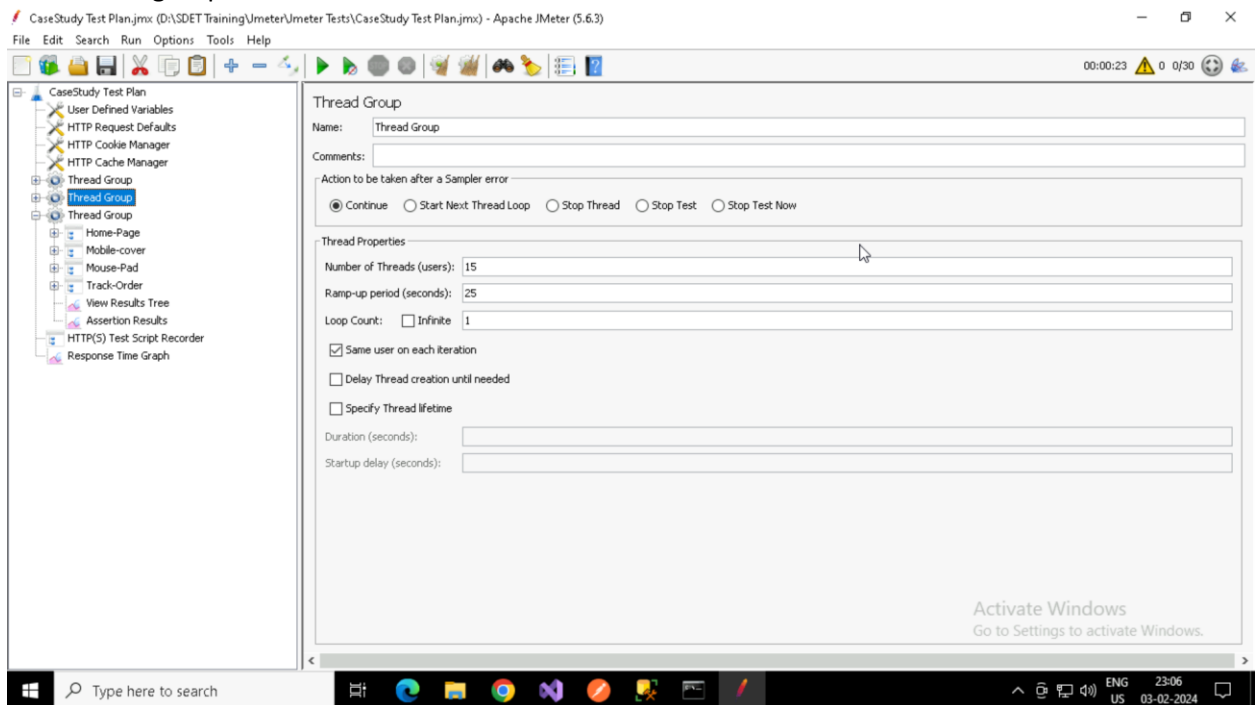


E-Commerce Load test with JMeter, Prometheus and Grafana

1. Create test plan.



2. Add Thread group with record controller.



3. Add Test script Recorder.

4. Generate logs and reports.

```
Administrator: C:\Windows\System32\cmd.exe
Warning: Nashorn engine is planned to be removed from a future JDK release

D:\SDET Training\Jmeter\apache-jmeter-5.6.3\bin>jmeter -n -t "D:\SDET Training\Jmeter\Jmeter Tests\CaseStudy Test Plan.jmx" -l "D:\SDET Training\Jmeter\Jmeter Tests\CaseStudy Result.csv" -e -o "D:\SDET Training\Jmeter\Jmeter Tests\CaseStudy"
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
Creating summariser <summary>
Created the tree successfully using D:\SDET Training\Jmeter\Jmeter Tests\CaseStudy Test Plan.jmx
Starting standalone test @ 2024 Feb 3 23:12:30 IST (1706982150595)
Waiting for possible Shutdown/StopTestNow/HeapDump/ThreadDump message on port 4445
Warning: Nashorn engine is planned to be removed from a future JDK release
summary + 1 in 00:00:01 = 1.2/s Avg: 638 Min: 638 Max: 638 Err: 0 (0.00%) Active: 3 Started: 3 Finished: 0
Feb 03, 2024 11:12:32 PM org.apache.tika.config.InitializableProblemHandler$3 handleInitializableProblem
WARNING: org.xerial's sqlite-jdbc is not loaded.
Please provide the jar on your classpath to parse sqlite files.
See tika-parsers/pom.xml for the correct version.
summary + 119 in 00:00:23 = 5.1/s Avg: 200 Min: 127 Max: 657 Err: 0 (0.00%) Active: 0 Started: 30 Finished: 30
summary = 120 in 00:00:24 = 5.0/s Avg: 204 Min: 127 Max: 657 Err: 0 (0.00%)
Tidying up ... @ 2024 Feb 3 23:12:55 IST (1706982175448)
... end of run

D:\SDET Training\Jmeter\apache-jmeter-5.6.3\bin>
```

Assertion results.

CaseStudy Test Plan.jmx (D:\SDET Training\Jmeter\Jmeter Tests\CaseStudy Test Plan.jmx) - Apache JMeter (5.6.3)

File Edit Search Run Options Tools Help

00:00:23 0 0/30

CaseStudy Test Plan

- User Defined Variables
- HTTP Request Defaults
- HTTP Cookie Manager
- HTTP Cache Manager
- Thread Group
 - Home-Page
 - Mobile-cover
 - mobilecover/-2,058
 - mobilecover/pages/mobilecover/-1,950
 - Mouse-Pad
 - mousepad/-2,199
 - mousepad/collections/mousepad/-2,285
 - Track-Order
 - View Results Tree
 - Assertion Results
- Thread Group
 - Home-Page
 - Mobile-cover
 - mobilecover/-2,058
 - mobilecover/pages/mobilecover/-1,950
 - Mouse-Pad
 - mousepad/-2,199
 - mousepad/collections/mousepad/-2,285
 - Track-Order
 - View Results Tree
 - Assertion Results

Assertion Results

Name: Assertion Results

Comments:

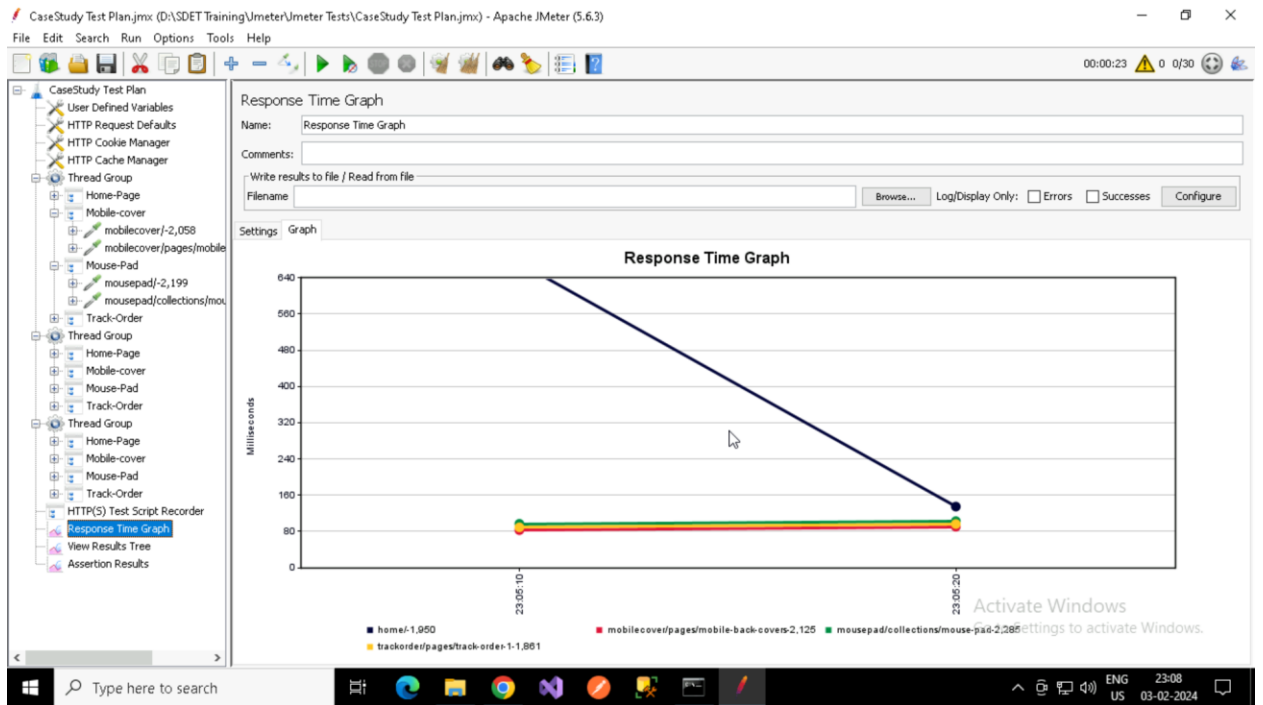
Write results to file / Read from file

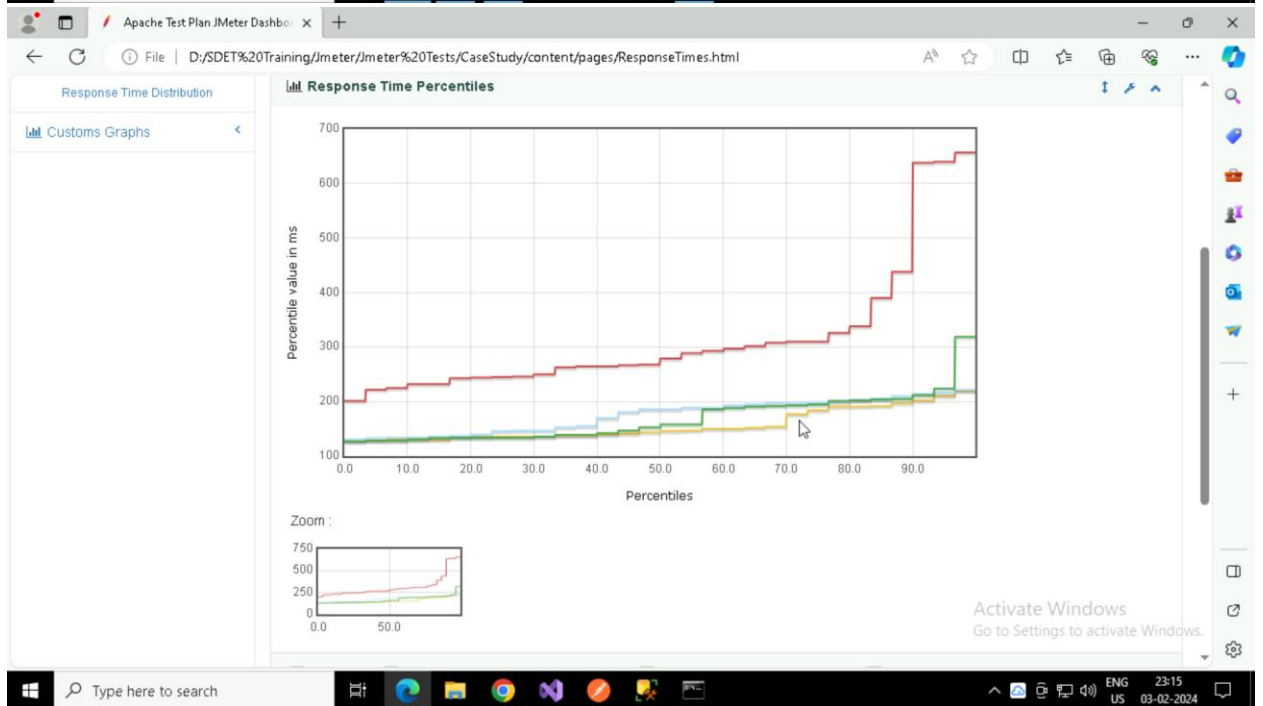
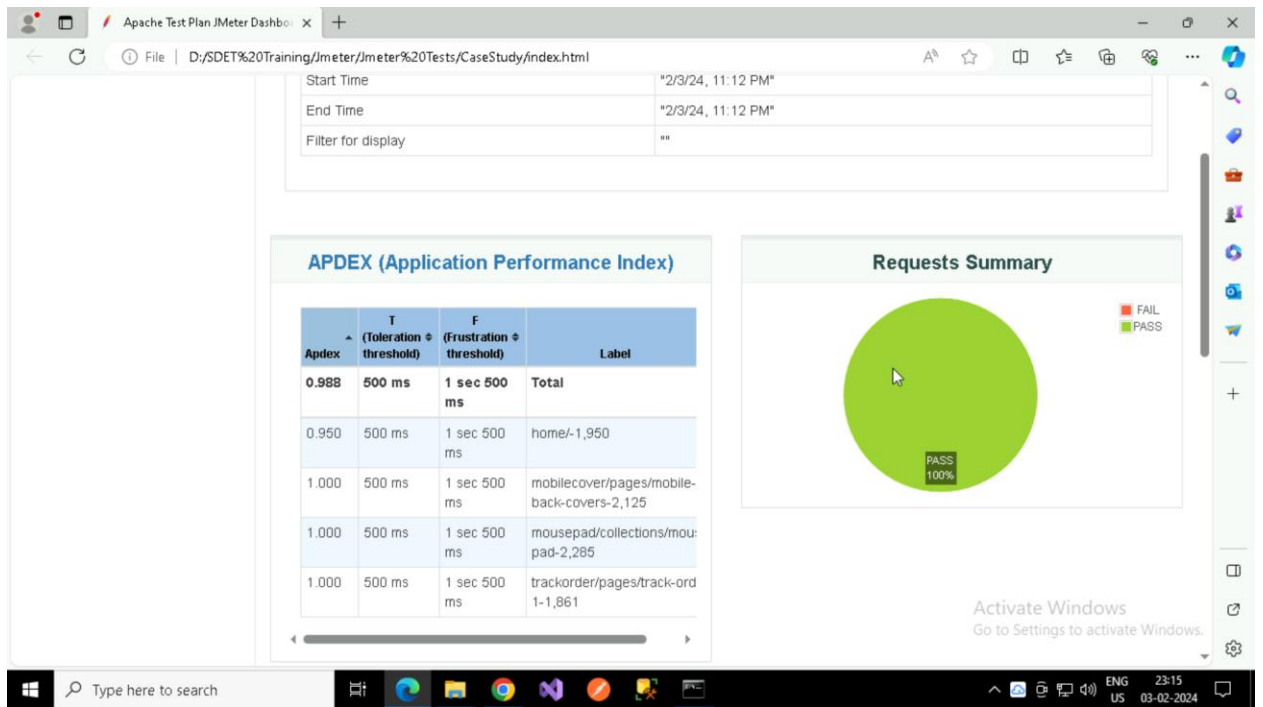
Filename: Browse... Log/Display Only: ☐ Errors ☐ Successes

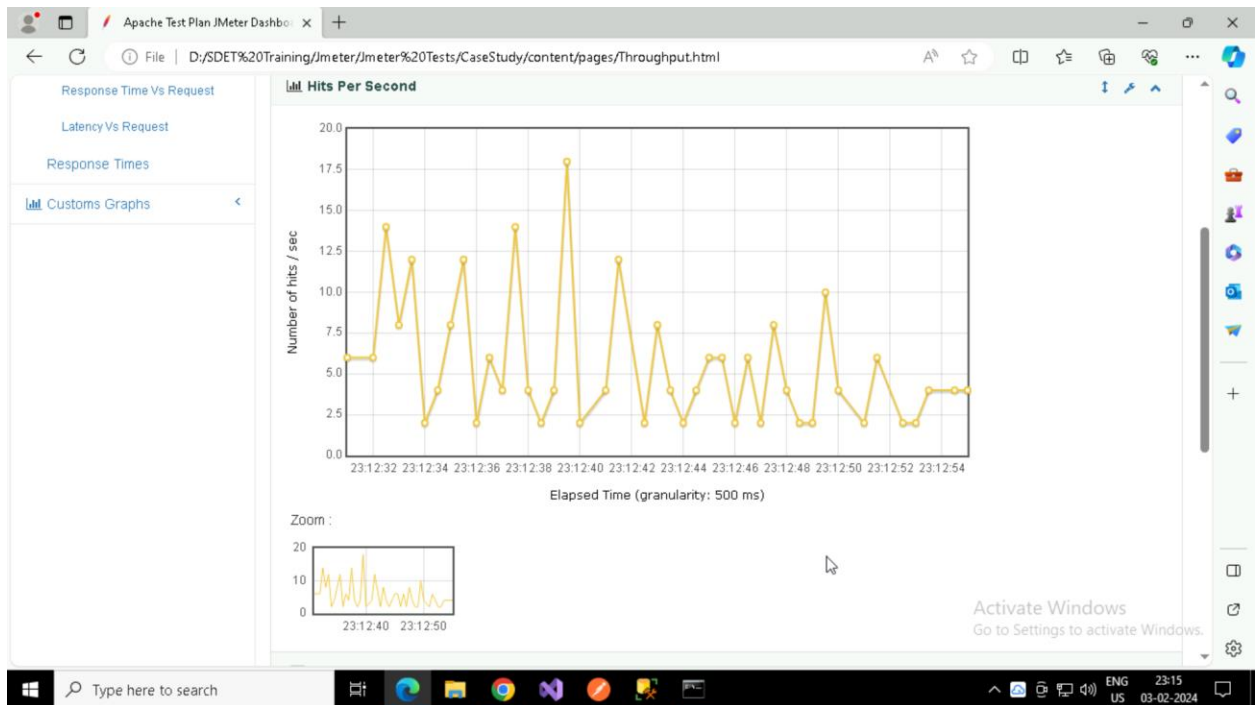
Assertions:

```
trackorder/pages/track-order-1-1,861
home/-1,950
home/-1,950
mobilecover/pages/mobile-back-covers-2,125
mobilecover/pages/mobile-back-covers-2,125
mousepad/collections/mouse-pad-2,285
mousepad/collections/mouse-pad-2,285
trackorder/pages/track-order-1-1,861
trackorder/pages/track-order-1-1,861
home/-1,950
mobilecover/pages/mobile-back-covers-2,125
home/-1,950
mousepad/collections/mouse-pad-2,285
mobilecover/pages/mobile-back-covers-2,125
mousepad/collections/mouse-pad-2,285
trackorder/pages/track-order-1-1,861
trackorder/pages/track-order-1-1,861
home/-1,950
mobilecover/pages/mobile-back-covers-2,125
mousepad/collections/mouse-pad-2,285
trackorder/pages/track-order-1-1,861
home/-1,950
mobilecover/pages/mobile-back-covers-2,125
mousepad/collections/mouse-pad-2,285
trackorder/pages/track-order-1-1,861
mobilecover/pages/mobile-back-covers-2,125
mousepad/collections/mouse-pad-2,285
```

Response time graph from Jmeter.





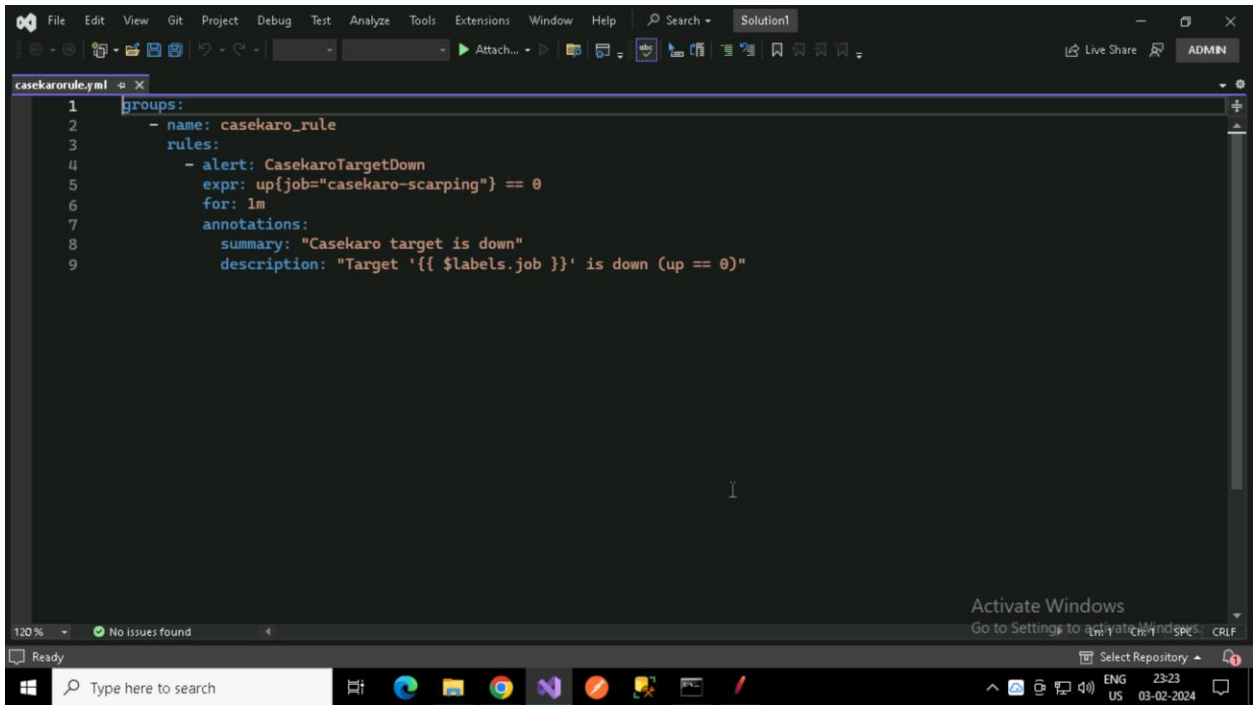


5. Add Prometheus Listener.
6. Configure Prometheus.yml to scrape data.

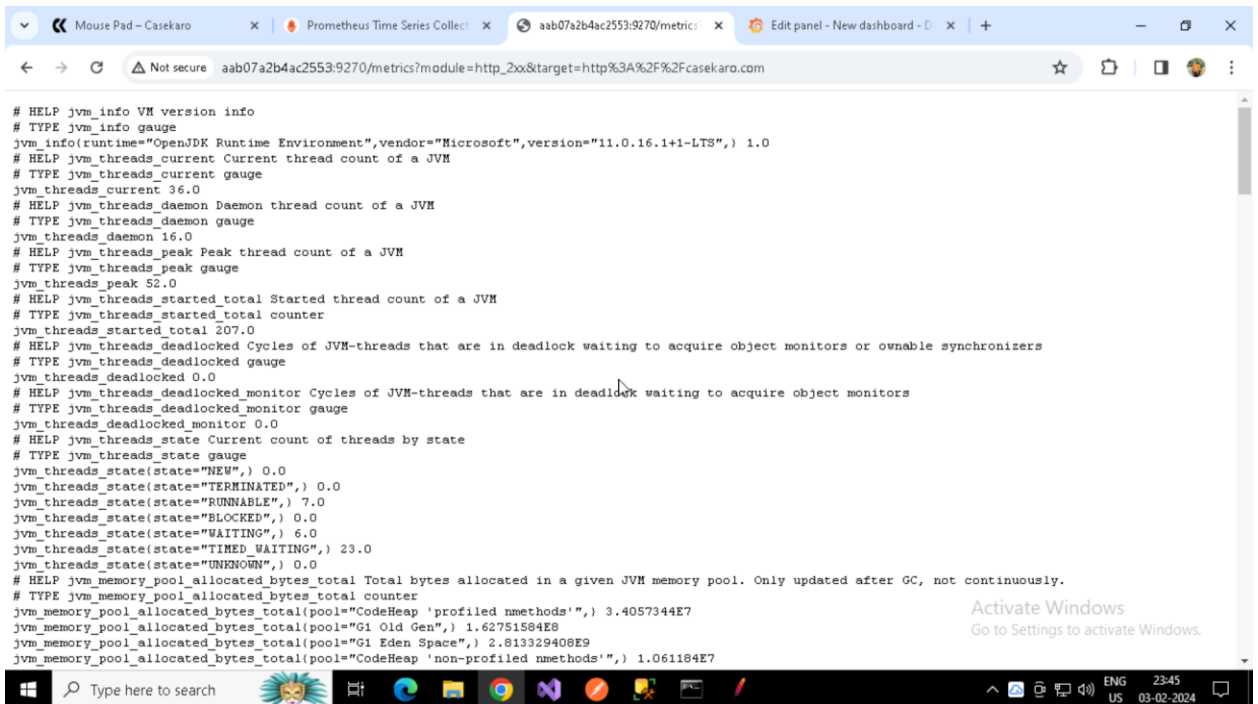
```
prometheus.yml
- targets: ["localhost:9270"]
- job_name: "windows-exporter"
  # metrics_path defaults to '/metrics'
  # scheme defaults to 'http'.
  static_configs:
    - targets: ["localhost:9182"]
- job_name: 'casekaro-scraping'
  metrics_path: /probe
  params:
    module: [http_2xx]
    target: ['http://casekaro.com']
  static_configs:
    - targets: ["localhost:9111"]
    #Use the module defined in your blackbox.yml
```

Activate Windows
Go to Settings to activate Windows.

7. Add alert rule for Prometheus.



8. Pull data from Prometheus to Grafana.



Mouse Pad - Case... Prometheus Time x Prometheus Time x Prometheus Time x aab07a2b4ac2553... Casekaro - CaseSh... +

localhost:9090/alerts?search=

Prometheus Alerts Graph Status Help

☒ Inactive (0) ☒ Pending (0) ☒ Firing (2) Filter by name or labels ☐ Show annotations

D:/prometheus-2.49.1.windows-amd64/prometheus-2.49.1.windows-amd64/rules/casekarorule.yml > casekaro_rule firing (1)

CasekaroTargetDown (1 active)

name: CasekaroTargetDown
 expr: up{job="casekaro-scraping"} == 0
 for: 1m
 annotations:
 description: Target '{{ \$labels.job }}' is down (up == 0)
 summary: Casekaro target is down

Labels	State	Active Since	Value
alertname=CasekaroTargetDown instance=localhost:9270 job=casekaro-scraping	FIRING	2024-02-03T18:37:16.527673092Z	0

D:/prometheus-2.49.1.windows-amd64/prometheus-2.49.1.windows-amd64/rules/rules.yml > prometheus_rule firing (1)

PrometheusTargetDown (1 active)

Activate Windows
Go to Settings to activate Windows.

Type here to search

9. Configure data source.

10. Generate Dashbord.

Search results: 52 results for "ap... aab07a2b4ac2553:9270/metrics... Casekaro - CaseStudy - Dashbo... +

localhost:8081/d/a14afe86-fc01-449b-abcc-d394b25d992c/casekaro?orgId=1&from=now-1h&to=now

Search or jump to... ctrl+k

Home > Dashboards > CaseStudy > Casekaro

Success v/s failure count

Response time

Activate Windows
Go to Settings to activate Windows.

Type here to search