

IT314 – Software Engineering



Group 25

Diagnosis Expert System

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Introduction: Non-Functional Testing

This document outlines the non-functional testing strategy to ensure the system's performance, security, and overall reliability.

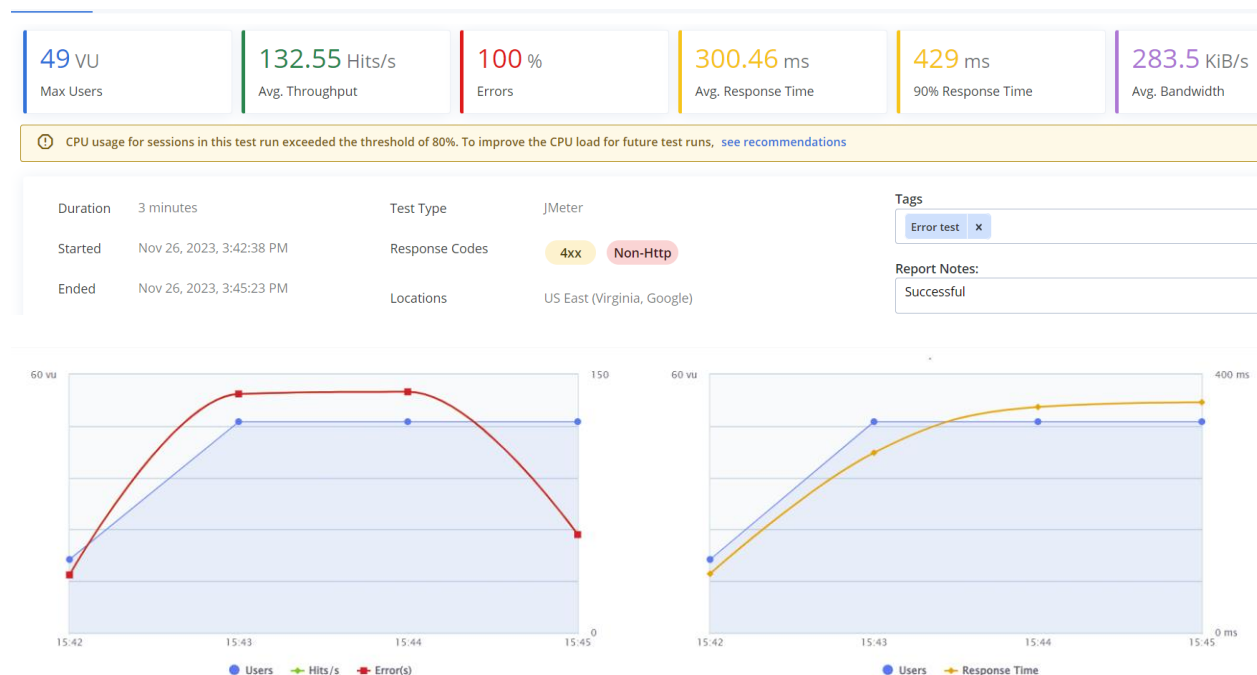
1. Performance Testing:

Objective: To assess the system's responsiveness, scalability, and overall performance under various conditions.

Tools used: Blaze-meter

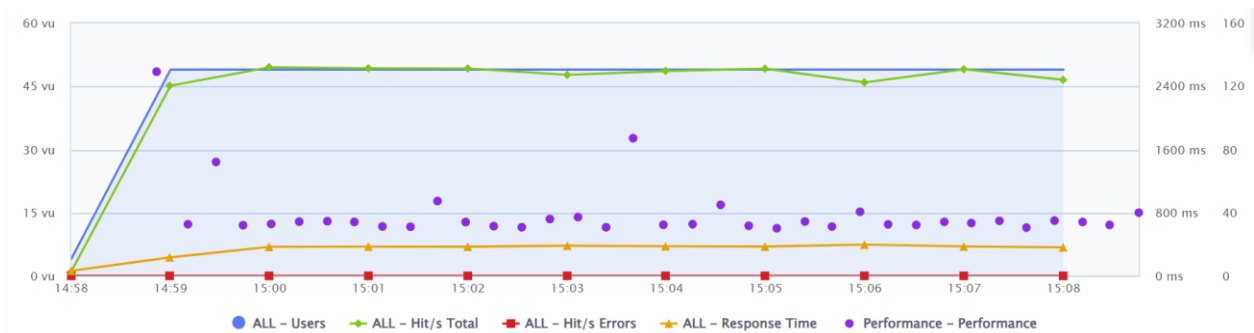
This test is conducted on 2 CPU and 1 fixed location US East Virginia Google cloud. Maximum users considered is 50 at a time for 10 minutes at 1 minute ramp up time. Errors noticed are 0.

Moreover for Pages which needs authentication it shows error 403 Forbidden and its error percentage is 100 as it is not able to access that page. This fulfill the acceptance criteria.



We claim up to 1 lakh hits in 1 hour.





Label Id	Element Label	# Samples	Avg. Response	Avg. Hits/s	Min Response Time (Max Response Time	Avg. Bandwidth	Error Percentage
1	https://medai2	77050	360.45	128.42	33	4535	2240.14	0

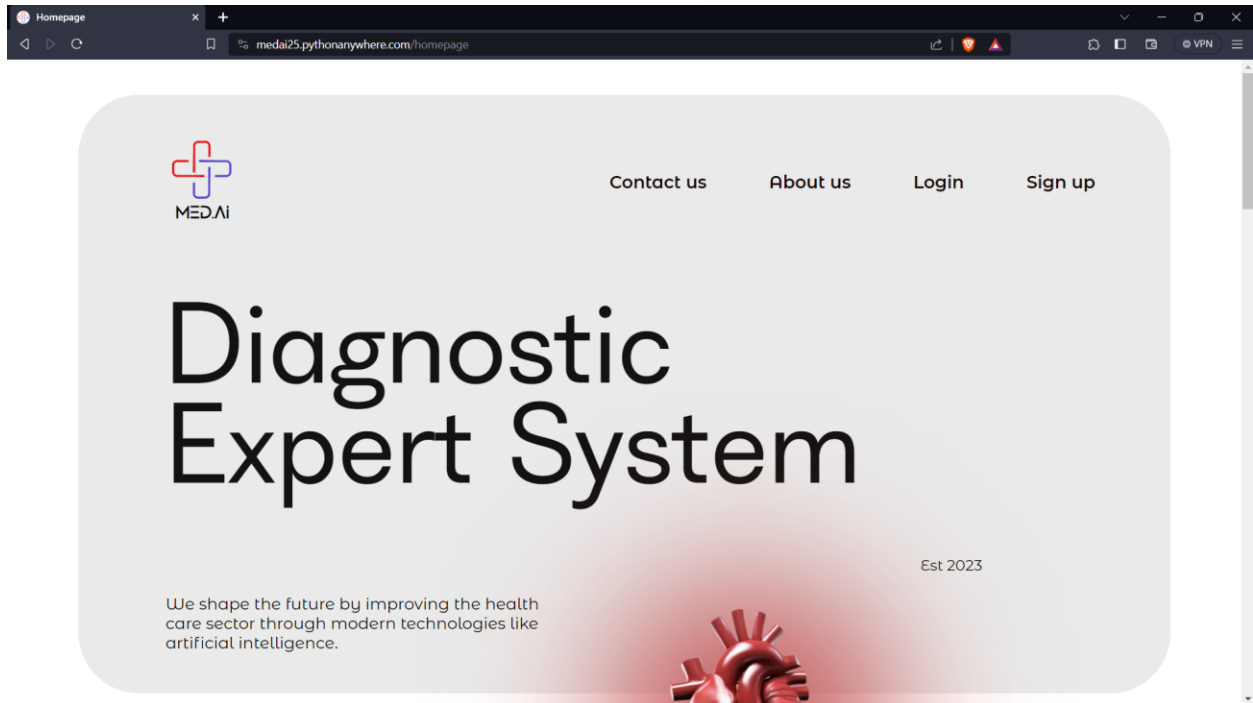
Label Id	Element Label	# Samples	Avg. Respons	Avg. Hits/s	Min Response Ti	Max Response Time	Avg. Bandwidth (KBytes/s)	Error Percentag
1	Performance te	65763	325.04	138.16	30	727	1205.1	0

2.Compatibility testing:

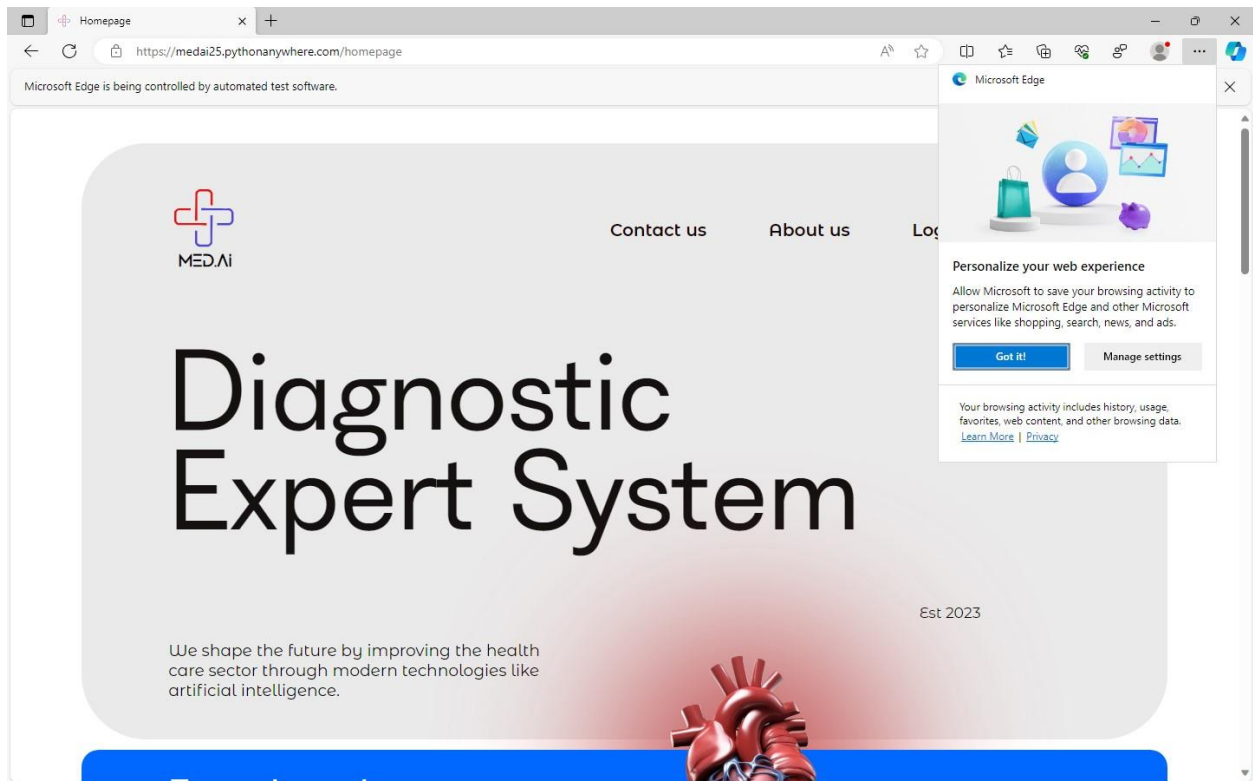
Objective: To ensure the website functions consistently across different browsers, devices, and operating systems.

Tools: Sauce Labs, providing cloud based cross browsing

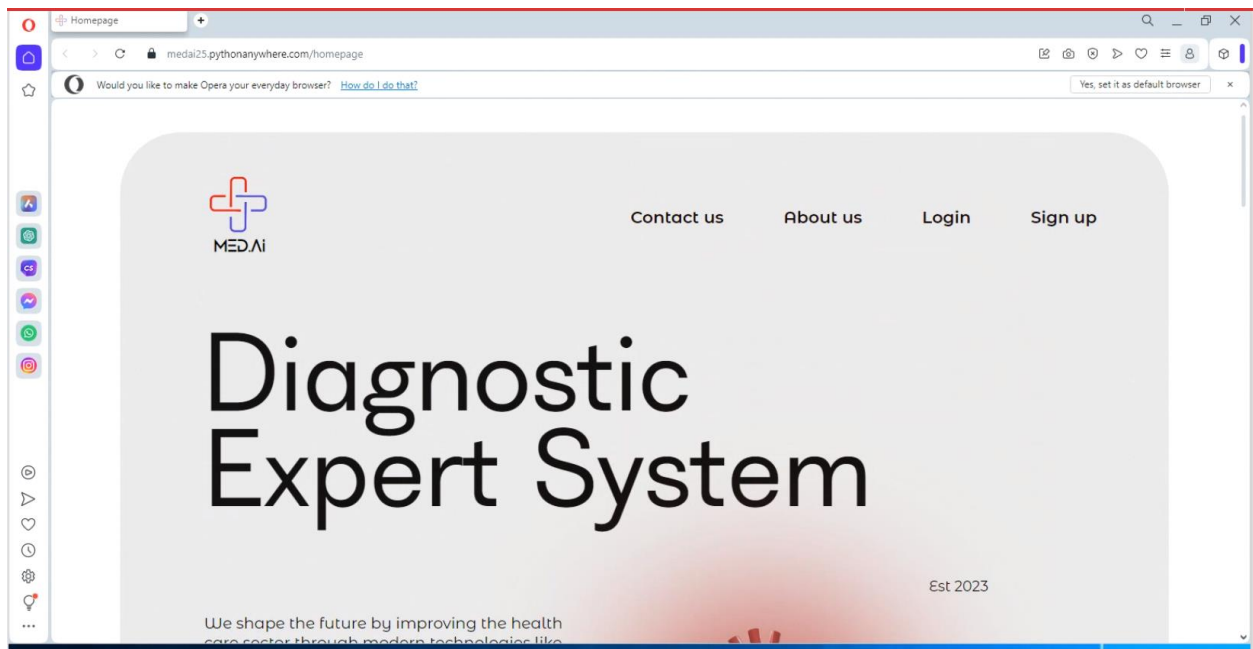
Windows 11 - Brave: version 118 , Resolution: 1496x 705



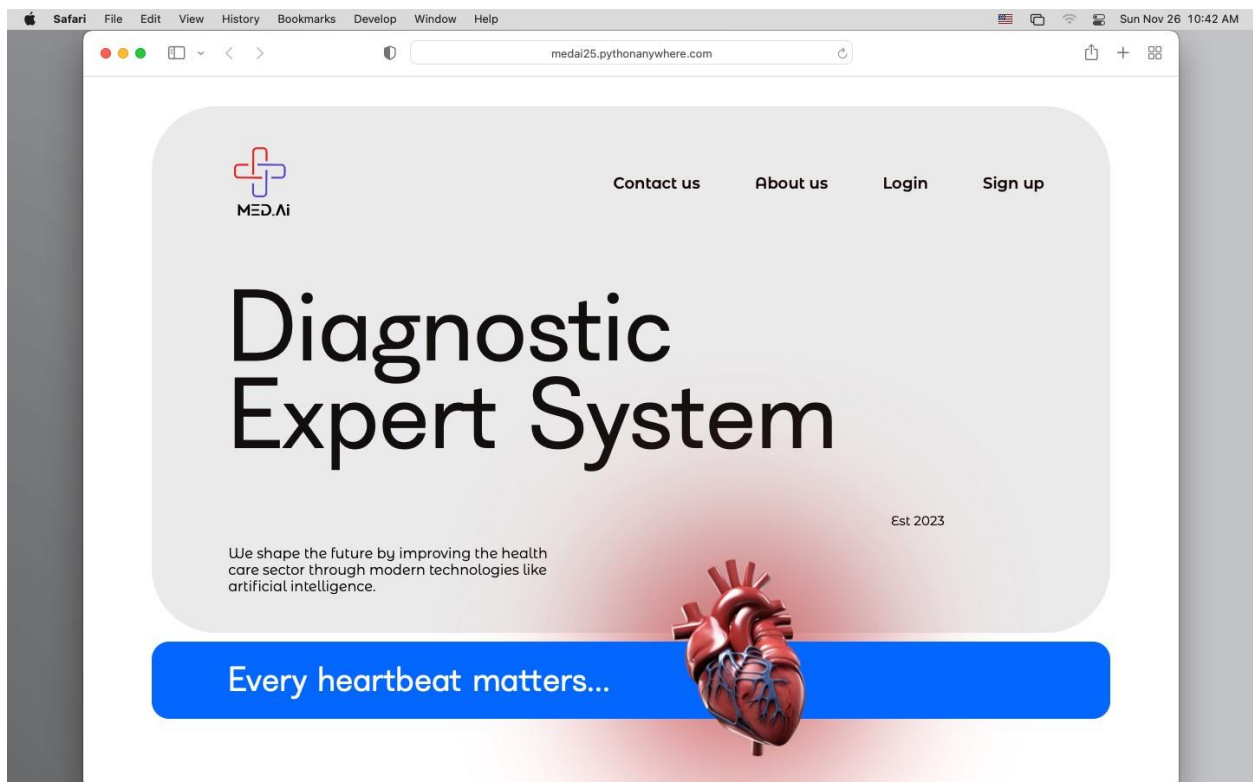
Windows 11 – Microsoft Edge: version 118 , Resolution: 1440x900



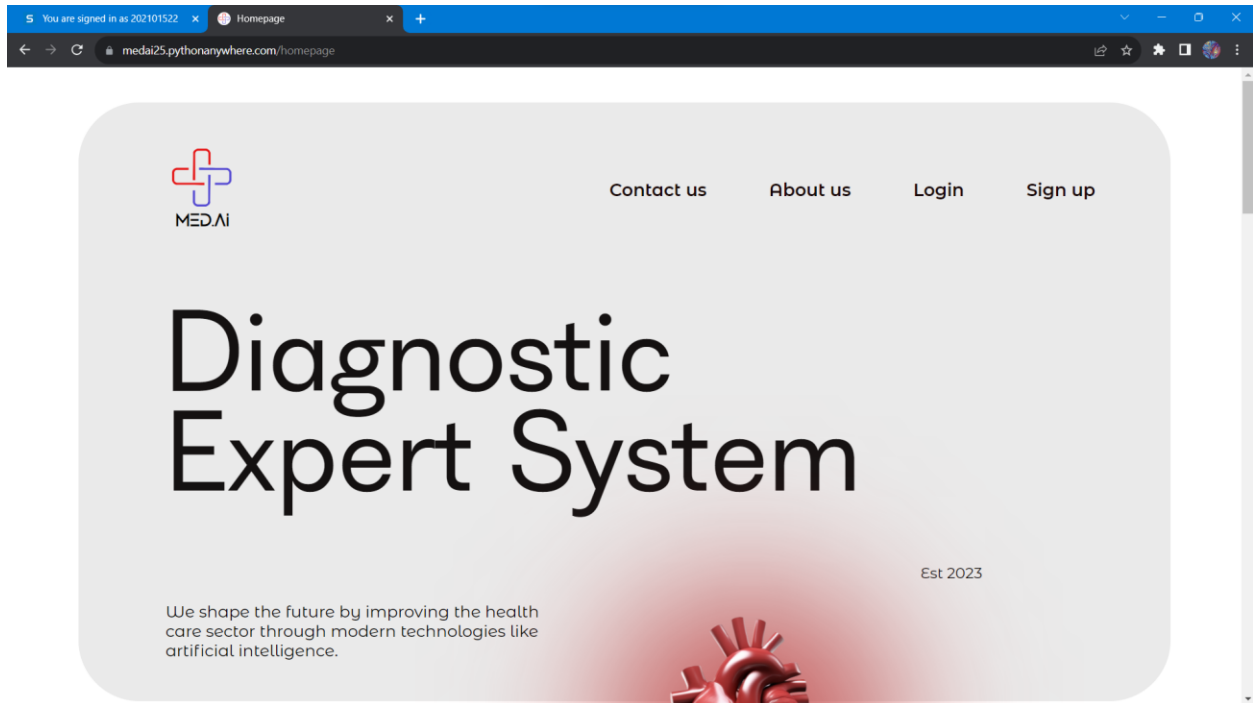
Windows 11 - Opera – version 105. Resolution : 1536 x 796



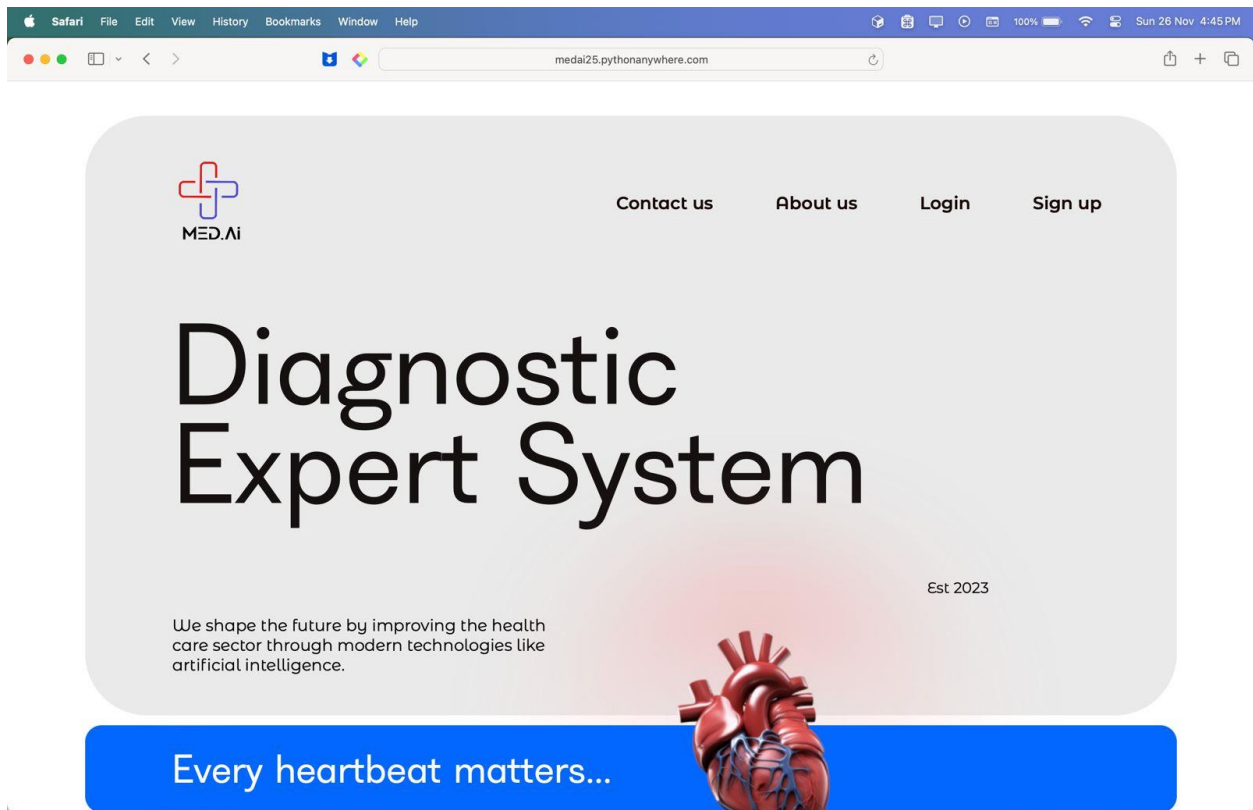
MacOS- Safari 15 Monterey Resolution 1440x900



Windows 11- Chrome Version 119 Resolution 1496x900



MacOS- Safari 17 Sonoma Resolution 1440x900



It is observed that the website is compatible to almost all the version of web browsers and across different system like Mac, windows and linux.

3. Reliability and Availability Testing:

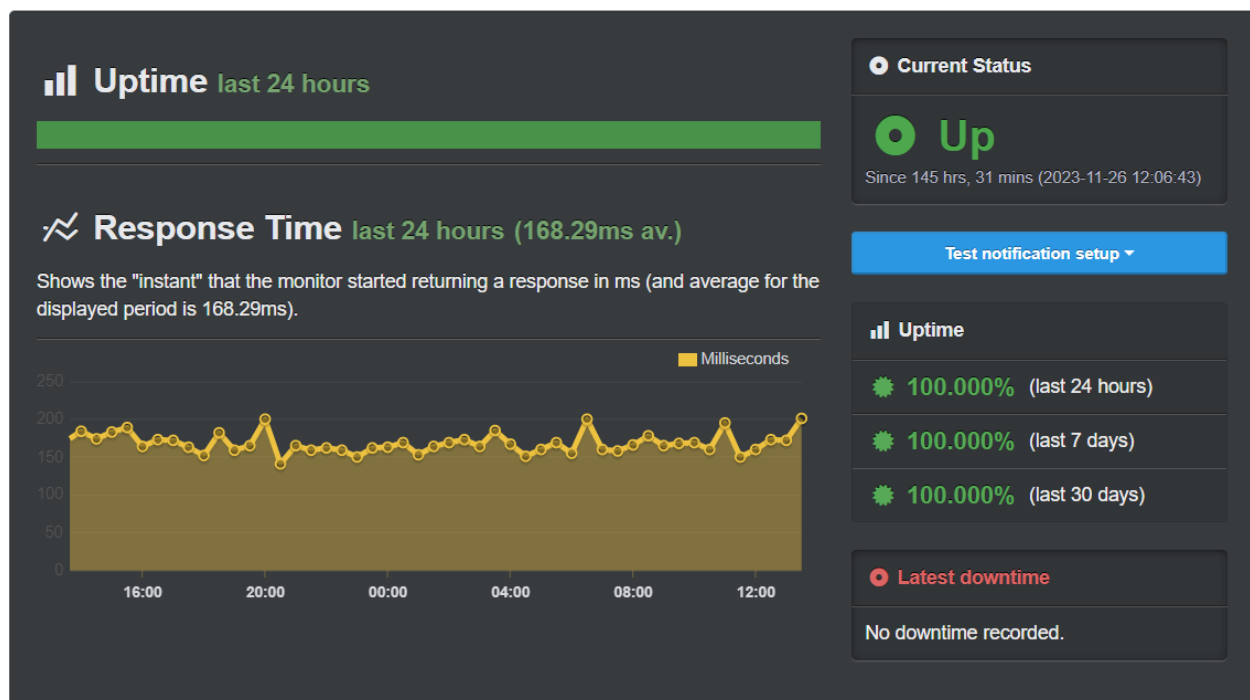
Objective: To ensure the system's reliability and availability under different conditions.

Tool used: Uptime Robot

The monitor tracking is implemented and the website is live 24 hrs.

Any issue noticed would be notified to the user through mail from uptime robots.

HTTP Request and its response time



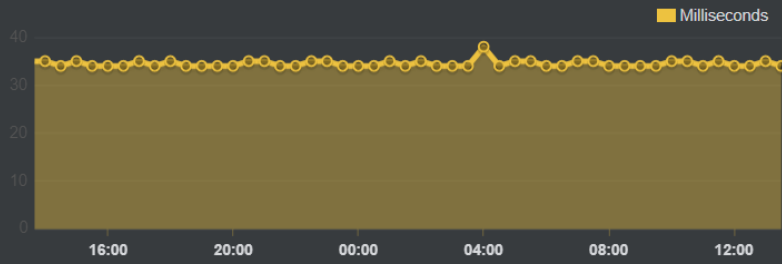
Ping and its response time

Uptime last 24 hours



Response Time last 24 hours (34.47ms av.)

Shows the "instant" that the monitor started returning a response in ms (and average for the displayed period is 34.47ms).



Current Status

Up

Since 145 hrs, 34 mins (2023-11-26 12:05:43)

[Test notification setup](#)

Uptime

100.000% (last 24 hours)

100.000% (last 7 days)

100.000% (last 30 days)

Latest downtime

No downtime recorded.