Team - 26
Project ID - 6

Problem Statement: Distributed performance testing on cloud using Funkload

Technology used : Funkload

FunkLoad:

- FunkLoad is an extension to the web-unit module, a Python module oriented towards unit testing web application. FunkLoad comes with a fairly extensive API and set of tools taking care of the burden of extracting metrics from a load test to eventually generate test reports with nice-looking charts.
- Internally Funkload will create a set of metrics of the test and save them in an XML file that can be processed later.
- FunkLoad offers tools to test XML-RPC servers or record tests from a browser directly, allowing for complex tests to be developed easily.

Overall Funkload is quite a powerful tool and yet flexible and simple to use, providing a comprehensive load and performance-testing environment for Python web applications.

Abstract :

- Funkload is quite popular among other tools for its support of distributed testing i.e we can stress test a website for its performance details from various machines.
- This kind of load testing will help the developers to find out probably missed out bugs or glitches in the app and also know the performance for the same against heavy traffic
- Load testing helps to identify the maximum operating capacity of an application as well as any bottlenecks that might interfere with its operating at capacity
- We can perform distributed testing by configuring Funkload to use multiple machines to stress-test the app/server.
- From the statistics that funkload will provide us we can also redesign them into required format (pie charts, etc) and we can also compare the stats among the versions of the app to know their improvement in the performance
- Testing of the web app can be done according to the requirement. The load testing can be done against various parameters like the startup delays, to find the load when there are continuous users performing tasks in time periods.

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