For the performance measures of Mongo DB, we use Gatling. Gatling is a load- and performance-testing framework based on Scala, It does not have its own solution, rather it integrates with an application. We have implemented a spring-boot application which manages Mongo-DB CURD operation and calling the application from Gatling to achieve our goal.

We are calling Gatling with the specific users for a certain time-period,

We have written number Gatling simulations specific to performance test to call the respected spring-boot endpoint to achieve our goal.

Each Gatling simulation being called with certain parameters like users, baseUrl, testRef, duration, passTime

* Users: each of the virtual user execute the scenario.
* testRef: Refer the rest
* duration: Run the load test for a **fixed duration**, and have the users loop continuously throughout the Lifecyle of the test
* passTime: Pass the Gatling execution for a given milli Sec after each spring-boot call.

At the end of each execution of a Gatling script, a Gatling Results Report is automatically created. The report will look something like the one in the screenshot below. It contains lots of useful metrics on the response times of the requests, as well as details of errors that were encountered:

Graphical user interface

Description automatically generated