**RecruitCRM Assignment**

**# Choose any recent web application that you work upon.**

As already informed this assignment refers to using any recent web application, I have worked upon but for me that would be the proprietary codebase of my employer Cerner. I cannot do this assignment on my employer’s code. Hence chosen a demo application from Google and have completed the assignment.

**# Which tool are you using and why?**

The tool that I have chosen to complete this assignment is **Loadrunner** tool. This is because it is a very strong performance testing tool which can support multiple protocols. Loadrunner is unique because it gives users an accurate and wholesome image of an application’s end-to-end performance. As a result, users can detect and resolve performance bottlenecks immediately.

Moreover, I have 5+yrs experience with this tool, hence selected this tool to complete the assignment.

**# Performance Test Scripts**

I have chosen a very simple demo application. [Blaze demo application to book flight].

**Protocol used** – HTTP/HTML

**Recording mode-** HTML mode

**Steps for the Workflow-**

1)Launch the URL. URL- <https://blazedemo.com/>

2)Choose the flight by choosing the departure and destination city.

3)Choose flight

4)Enter the details purchase flight.

**Details-**

I have parameterized the inputs and have correlated the dynamic values using **web\_reg\_save\_param\_ex**

Have used **web\_reg\_find** for text check. To make sure application is not false passing.

Used **lr\_think\_time** to simulate real life scenario.

**# Performance Test Scenario Document in Xls file.**

I have created demo data using the excel sheet. The first two tabs contains the data that has been used in the script.

I have designed step up scenario for load testing, as I was not aware how much load the demo application can support.

Also, since Loadrunner supports only 50 Vusers for free, max Vuser I could use was 50, as I have downloaded the free trial version.

Total duration of the test was 1hrs 16 min.

For first 15 min 10 Vusers were up and booking flight, then 25 more Vusers ramped up, now another 15 mins 35 Vusers were up, after that 10 Vusers were stopped, then again 15 Vusers up and now for 30 mins 50 Vusers were up and doing their work.

**# Performance Test Results**

Have collected the metrics and have prepared the report and shared in excel.

* Average Response Time and 90th percentile looks good. It is less than 2sec.
* I have added new window resource CPU Utilization counter.

DB Server CPU Utilization averaged at 32%. This looks fine.

* I have executed two tests and can see response time is comparable. So, for this application SLA should be less than 2secs.