

Worqference 2023

Systematically start Web Load Testing using Apache JMeter

Instructor: Sandeep Garg

Workbook & Estimated Schedule

S. No.	Task(s)	Total Duration	Start Time	End Time
1	Introduction(s) and agenda	5 Mins	02:15 PM IST	02:20 PM IST
2	What <i>might help</i> building and influence our mental model(s) about load and load testing?	5 Mins	02:20 PM IST	02:25 PM IST
3	What affects a software system performance badly? - Some historical facts sharing	5 mins	02:25 PM IST	02:30 PM IST
4	What <i>seems</i> NOT so systematic about Load Test Design and <i>how to fix it?</i> <ul style="list-style-type: none"> ● Capturing and documenting requirements using <ul style="list-style-type: none"> ○ A heuristic ○ A principle ○ A thinking tool 	15 Mins	02:30 PM IST	02:45 PM IST
5	A quick <i>terminology</i> and <i>concept</i> check? <ul style="list-style-type: none"> ● Types of Load Tests ● Transaction ● <i>Virtual</i> Users (Threads) ● Correlation ● Concurrency ● Think Time ● Ramp-up 	15 Mins	02:45 PM IST	03:00 PM IST
6	<i>Scripting</i> a bare minimum test plan by adding elements (<i>no code</i>) <ul style="list-style-type: none"> ● Config elements ● Properties and variables ● Threads & Samplers 	15 Mins	03:00 PM IST	03:15 PM IST

	<ul style="list-style-type: none"> Processors Assertions & Listeners 			
7	A double-edged sword - JMeter's Record and Playback feature <ul style="list-style-type: none"> Man in the Middle - Proxy Templates and Recorders - JMeter to capture Traffic Generating a Web Load Test Plan 	15 Mins	03:15 PM IST	03:30 PM IST
8	Troubleshooting	5 Mins	03:30 PM IST	03:35 PM IST
9	Script ready for execution? <ul style="list-style-type: none"> Validate and Baseline Command line parameterized execution Distributed execution (Optional) Cloud execution 	15 Mins	03:35 PM IST	03:50 PM IST
10	Measure what matters and how <ul style="list-style-type: none"> Latency Response Time Standard Deviation Percentiles / Averages or? Errors 	10 Mins	03:50 PM IST	04:00 PM IST
11	Reporting and Analysis <ul style="list-style-type: none"> The old v/s APDEX way 	10 Mins	04:00 PM IST	04:10 PM IST
12	Case studies <ul style="list-style-type: none"> Shallow tests often work and are useful before going deeper Requirements dissection using 'Mary had a Little Lamb' heuristics 	5 Mins	04:10 PM IST	04:15 PM IST

Disclaimer:

1. This schedule is best case and estimated based on past experience(s) of larger workshops.
2. A variance of + [5% - 10%] might be acceptable by The Test Tribe Administrative team, but if not operationally feasible, I assume to be allowed to cover in dedicated Session Q&A: 04:15 PM IST - 04:25 PM IST.