**Rahul**

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**HP Virtual User Generator**

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Having 7 years of extensive work experience in both User Experience and Performance Testing using Perfecto Mobile, HP LoadRunner and JMeter. With good domain knowledge specific to Automobile, Banking and Retail marketing. Looking forward to work in a globalized environment where lot of challenging assignments, which leads to a steady growth in professional life. I have extensively used Perfecto Mobile &LOADRUNNER in most of my engagements. I predominantly worked in Onsite, and Offshore based projects.

Presently working as a Senior Software Consultant at client (Ford Motors) for testing Mobile application using Perfecto and LoadRunner. Various testing done to extensively understand the behavior across Server side and Client Side (User experience) under varying User loads, including analysis of Mobile Vital repot (device level HW utilization) and Mobile Network Virtualization to simulate device UX by simulating packet losses and with low signal strength.

Technical Exposure (Performance Testing)

* Certified in HP LoadRunner, Perfecto and Rational Performance Tester V8
* Experience in Mobile Performance testing on Server& Client side using LoadRunner and Perfecto Mobile.
* Expert in handling multiple projects, with quality results with in the defined timelines
* Worked for Automobile, Banking and Retail marketing domains.
* Interacting with business area experts, and pulling the business requirements with detailed questionnaires and recording the requirements in a documented format that can be reviewed and understood by both business and technical experts.
* Analyzing the business transaction volumes using Web Trends report and helping client in identifying the most critical transaction
* Preparation of Test Plan and Work Load Synthesis (User volume mix for the identified transactions)
* Test data requirement analysis and test data preparation using the data population scripts and also using Excel macros / Notepad++
* Hands on experience on different protocols like Web(HTTP/HTML), Mobile HTTP/HTML, RTE, Web Service, Ajax True Client.
* Preparation of Test scenarios, scheduling and monitoring using available tools
* Analyzing the test results using tools and Server metrics and submit the execution summary report with few recommendations
* Provide management with detailed reports using provided server metrics and schedule walkthrough meetings with business and technical people.

Work Experience

* Working as a Staff Quality Engineer in Altimetrik India Pvt. Ltd. since December 2015.
* Worked as a Senior Test Engineer in Maveric Systems Ltd from September 2013 to December 2015
* Worked as an Associate Software Engineer in Tatva Software Pvt. Ltd. from November 2010 to Sept 2013.

Rewards and Recognitions

* Appreciated **“Mountain Mover”** award in **Q1–2016** for the delivering the projects on aggressive timelines with high quality from LL6 manager.
* “**Ford Spot Recognition Award**” for Q4-2016 for delivering application across multiple regions.
* Award “**We Value You**” for Q3–2017 for Arxan implementation testing for iOS mobile, from LL5 manager.

Technical Skills

* **Databases** **:** MySQL, Oracle
* **Network Virtualization :** Shunra LoadRunner, Perfecto NV
* **Performance Tools** **:** LoadRunner, **Perfecto Mobile**, RPT, JMeter
* **Languages** : C Language
* **Monitoring Tools :** Perfmon, NMON, JVisual VM, HP SiteScope, HP Diagnostic
* **Packages :** MS Office
* **Web Technologies** : Html, Xml, SOAP
* **Data Analysis Tool :** Qlik View, Mini Tab, Tableau
* **Network Analysis Tools :** Wireshark, Charles Proxy
* **Project Management Tools :** HP ALM, Pivotal Tracker

Project Experience

**FordPass Mobile UX Testing – Chennai**

**Client:** Ford Motor Company

**Project Type:** Offshore – Client Location

**Project Location:** Chennai

**Duration:** Dec 2015 to TILL

**Performance Tools:** Perfecto Mobile, HP LoadRunner

**Project Management Tools:** HP ALM, Pivotal Tracker

**Network Analysis Tool:** Charles Proxy

**Other Tools:** MultiComm, TeraTerm, DET – Diagnostic Tool.

**Description:**

Ford is one amongst the top 5 leading automakers in the World; it offers wide range of four-wheel vehicles and quality services to Customers. As part of next generation service, Ford stepped into **IoT (Internet of Things)**, where vehicle continuously interacts with other objects around world using network connectivity. As an initial step it implemented Mobile application, which provides Remote commands like vehicle – Start, Stop, Lock and Unlock functionality and marketing services specific to the regions. By using FordPass application, user can access a personal concierge, schedule pickup & delivery, find and reserve parking and operates vehicle remotely from the palm of their hand. As part of UX testing, we were involved in testing the application over the listed regions – North America, Canada, United Kingdom, France and Germany.

**Responsibilities:**

* Used Perfecto as a platform to trigger transactions from mobile devices and understanding the behavior w.r.to different types of mobiles – iOS/Android under different conditions.
* Analyzed Mobile logs to understand the behavior of the device under various testing conditions
* Client side metrics like CPU, Memory were also analyzed using VITALS report generated across the test duration.
* Capture Network traffic to understand which API call is taking very long time to respond and helps in identifying which subsystem is making noise. These logs collected using CHARLES PROXY.
* As part of Continues, testing Ford implemented Agile Model, to do testing across all the regions.
* Understanding the application architecture in terms of software implementation and all the internal and external sub systems involved
* Analyzing UX, influencing factors w.r.to mobile functionalities, using six-sigma analysis approaches.
* Understanding UX behavior by simulating multiple network bandwidths using network virtualizations – Packet loss techniques, to simulate realistic scenario.
* Optimized the UX values to yield better performance of the application by analyzing and identifying the external or internal systems, which lead to performance degradation.

List of few other Projects handled @Ford Motor Company

* ESBOL
* DragonFly
* SABA
* WIPS
* LCS

**T24 Implementation – Sharjah**

**Client:** Sharjah Islamic Bank

**Project Type:** Onsite / Offshore

**Project Location:** Sharjah / Chennai

**Duration:** Sep 2015 to Dec 2015

**Description:**

SIB was planning to implement Temenos T24 as new Core Banking solution by replacing the existing Core Application with its channels like Retail Internet Banking (RIB), Corporate Internet Banking (CIB) and Customer Relationship Management (CRM) to interact with new Core Banking solution. SIB is also planning to implement Mobile Banking solution for the first time. Performance testing the T24 Core with all the 4 channels enables SIB to understand the application behavior under the expected user loads with the volumes to be achieved and to understand performance bottlenecks of the application.

**Responsibilities:**

* Understanding the application architecture in terms of software implementation and the sub systems involved
* Understanding business need and helping them to finalize the Critical Business Transactions (CBT’s)
* WLS preparations for the finalized transactions with the volumes to be achieved
* Done POC on Tool compatibility and protocol analysis with LoadRunner tool.
* Understanding and analyzing the Test Data required for throughout the performance phases
* Test Plan Preparation
* Strategic presentation on the plan to the client and make them understand the scope in terms of Performance Testing

**Tool Proposed:** LoadRunner

**Bank Audi – FLEXCUBE Application**

**Client:** Bank Audi

**Project Type:** Onsite

**Project Location:** Beirut - Lebanon

**Duration:** May 2015

**Description:**

Performance testing FLEXCUBE application will enable Bank Audi to determine the application overall readiness, by covering all the identified critical business transactions that shall have impact on the performance of core banking application. Tested FLEXCUBE application to simulate the peak user load with the identified critical business transactions to understand high-level pain areas that can affect go-live.

**Responsibilities:**

* Understanding the application architecture in terms of hardware and software implementation
* Tool compatibility and protocol analysis was done
* Generated scripts using Load Runner-11.5 – Web(HTTP/HTML)
* Executed performance test runs by simulating the sanity and load test
* Configuration of the scripts and the scenarios required for the performance test
* Test data preparation based on the requirement
* Generated Test reports for each execution.
* Monitoring application server resource utilization using HP Diagnostics
* AWR reports are used in understanding the database behavior on the user load

**Tools:** LoadRunner 11.50, HP Diagnostics

**Protocol:** Web(HTTP/HTML)

**Environment:** Big-IP, OHS, WebLogic server, Oracle

**SAMBA – T24 Transformation and Interfaces**

**Client:** SAMBA Bank (Discovery & Planning)

**Project Type:** Onsite – Offshore

**Project Location:** Riyadh – Chennai

**Duration:** November 2014 – Feb 2015

**Description:**

SAMBA Bank was planning to implement a new core banking system from STAR legacy to T24 Core with an upgraded to all its 23 interfaces to interact with T24 Core. The scope for this project is to find the break point in terms of both the hardware and software for both core and its 23 interfaces.

**Responsibilities:**

* Understanding the application architecture in terms of hardware and software implementation
* Tool compatibility and protocol analysis was done
* Identifying the most critical business transactions
* Creation of protocol analysis report
* Creation of Test Plan and WLS – Work Load Synthesis

**Tools Identified -** LoadRunner 11.52, Paragon

**E-Cash Mobile Wallet**

**Client:** Bank Mandiri

**Project Type:** On-Site – Offshore

**Project Location:** Jakarta (Indonesia) - India

**Duration:** 4 Months – 2 Months

**Description:**

Bank Mandiri was planning to implement a Mobile Banking solution (Native Application) for both Mandiri and Non Mandiri customers. This in-house developed e-cash mobile application will be accessible to channels like e-Cash mobile, USSD, ATM, POS etc..., but the current rollout delivers mobile functionalities to support e-Cash & USSD channels. The performance testing for this application will focus on generating load against the e-Cash components by simulating the most common business transactions at an agreed upon volume as specified in the Performance Test Volume Model with respect to the WLS.

**Responsibilities:**

* Identifying most critical business transactions in production of e-Cash application
* Interacted with the Business and Technical counterparts of the Bank Mandiri
* Understanding all the performance requirements
* Generated scripts using Load Runner-11.52 Mobile-Http/Html protocol
* Executed performance test runs by simulating the Base line, Load, Stress and Endurance test.
* Configuration of the scripts and the scenarios required for the performance test
* Test data was handled for the purpose of the execution
* Test execution and monitoring the server resource utilization and JVM resource utilization using VisualVM and collated results
* Used NMon reports to analyze the resource utilization
* Involved in final and the individual reports for the executed
* Report/track the performance test defects

**Tools**: HP Load Runner 11.52

**Environment**: Windows 7/XP and UNIX

**Protocols:**Mobile-HTTP/HTML

**Mobile Used:**iPhone

**Servers:** Apache Tomcat, Nginx, MySQL

**Monitoring:** Using NMON, JVisual VM

**List of other Projects handled:**

* Adrenalin HRMS – Maveric – RPT V8
* CMS (Content Management System) – SHB (Saudi Hollandi Bank) - LoadRunner
* Connect Resource Management System - LoadRunner
* Vitality Management – Hydro One
* Warehouse Management Systems

Education

* **B.Tech** (Computer Science and Engineering) from **JNTU** in the Year **2010**.