

20 QUALITIMES 11

A QUALITY THAT DOES NOT CHANGE WITH TIMES



Managing Director and CEO of Hero Group, Mr. Pawan Munjal, with Charanjeet Minhas at a social event.



Charanjeet and Parthive with client's R&D Director, Mohammed, in Quebec during a summit meeting facilitated by Prof. Bernard.

EDITORS CHOICE...

Socializing Digitized

While the world was readying to bid adieu to the first decade of the 21st century; *TIME* heralded 26 years old creator of the *Facebook* man of the year. His innovation is a social club - as populous as three United States put together and more. Gluing together a bunch of existing technological regimens of different hue so seamlessly that the ablest military general would shout **Bravo!!**

All of us know very well that socializing is a cardinal human need. Bonfires have been happening from millenniums used by *meets* (Hindi/ Indian for friends) for meets. *Chaupals* in South Asia were called clubs in England. **Ghap-shup** of melas in one geography was echoed in gossiping of fairs in another. Seeds remain same; changed are the means of farming the crops.

Such *fait accompli* might facilitate keen mythological cerebrums lend credibility to 'myths' that hitherto have been a laughing stock of the 'logically evolved' minds. How Indra (parallel of Zeus in Hindu mythology) created water on earth using his thunderbolt may stand a chance of being understood down the years.

Has anything to share - We are all ears!! Please send in your articles to: qualitimes@qualitreeinc.com

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SOA TESTING - A COMPREHENSIVE APPROACH

Rajnish Mehta

SOA (Service Oriented Architecture) is increasingly becoming popular in organizations. Almost all new applications are being developed in SOA architecture. Though SOA is being implemented both as top down and bottom up approach, testing approach is not being standardized across the board, which should be specially designed for testing SOA. Some organizations are still using the N-tier architecture approach to test SOA. SOA test requires a customized designed approaches and methodologies which are capable of providing comprehensive test approach to test the interoperability and process orchestrations of SOA and without a clear understanding of SOA architecture, test designer cannot achieve the test goal. Functional and performance test approach, both have to be designed suitably for SOA. SOA architecture is extremely agile and flexible in nature and the so the test approach must be follow the same. Test designer must look beyond the conventional test approach of functional testing since we are looking to test the interfaces and services in diverse systems and platforms.

What is a service-oriented architecture?

SOA is an approach for building distributed systems and achieving enterprise integration by delivering application functionality as services to either end-user applications or other services.

SOA:

- Defines an architecture that leverages open standards to represent software assets as services
- Provides a standard way of representing and interacting with software assets
- Allows individual software assets to become building blocks that can be reused in developing other applications
- Shifts focus to application assembly rather than implementation details
- Is used internally to create new applications out of existing components
- Is used externally to integrate with applications outside of the enterprise

SOA has mainly three components:

- Service Requester
- Service Broker
- Service Provider

SOA design Structure

As I have mentioned earlier that without understanding the basic design principals of SOA, test designer cannot define the adequate test strategy.

Services are loosely coupled: Services are defined by explicit, implementation-independent interfaces. Consumers of the service only depend on such interface for service invocation; they are not concerned with the service implementation. Loose coupling promotes flexibility in changing the service implementation without impacting the service consumers.

Services are location-transparent: Location transparency implies that the service consumer does not hardcode the specific location of the service. Within SOA, location transparency is achieved by the use of service registries, service brokers, and other intermediaries that sit between service consumers and service providers. These intermediaries provide various business-level (service selection) and technical-level (service routing) binding capabilities between consumers and providers.

Services are interoperable: As service consumers and providers will be implemented in a variety of platforms, the communication protocols used to support service interactions should be compatible with a wide variety of platforms. These interoperability requirements highlight the role for open standards or de facto standard communication technologies.

Services are composable: This shows how functionality can be encapsulated as services at various levels of granularity and abstraction within a business. Services at one level of granularity or abstraction can be composed or aggregated to implement services at a higher level of granularity or abstraction, such as composing a business process from several business transaction services and exposing that process as a service itself.

(Rajnish is a Senior Test Architect with a vision of setting up the SOA testing's center of excellence. He has also authored many publications and whitepapers on SOA and various other software testing techniques.)



IN THE YULETIDE SPIRIT

Team Qualitree seen all geared up for the Christmas with carols, cakes and gifts all around.
But wait !! I don't see the Santa anywhere, I think he is busy clicking the pictures today - Ho Ho Ho !!



Jingle Bell Jingle Bell, is it Jingle or "Coke and Ale" all the way ! Over fun it is to "Eat and Drink" all day !

PUNCHES, PULLS AND BUMPS!!

- Jan 4 - Pavan M
- Jan 4 - Sreekanth R
- Jan 11 - Rama K
- Jan 16 - Raj B
- Jan 27 - Anupama B
- Jan 27 - Subrat P
- Jan 30 - Agam D
- Jan 31 - Rahul S

Answers to last months jumble:

ARCHIVE
LINEAR
DEBUG
MODULE

Last Months Winner:
Sreekanth M
Other Correct Entries:
Srikanth K
Bharath S

Congratulations and best of luck to all!!

Accounts Department - All 'Figures' tied up



*Once upon a time you met,
And shared much love and laughter,
May your Engagement continue the
fairytale,
Happy Ever After !*

Ever handsome Satish and charming Shwetha exchanging rings on this 3rd day of December 2010. Best wishes to the happy couple from the 'Qualitree Family'!

"All of you there join Qualitimes in wishing one another and Qualitree 2011 full of quality – our life, our work, our every thought"

Direct Dil Se...
Diabetic Sweetness

One of vernacular teachers in a colonial English style residential school in Punjab is talking to his class. The gentleman is famous for his English speaking abilities. One day he had asked a student in his class "Open the window and let the climate come in". On another occasion, he caught a student imitating him, he scolded him and said "meet me behind the lunch when I am empty". Today he is talking about a friend of his to the class.
"My friend very intelligent. Most shining in our village and many villages. Milk color, tree tall, wall strong. He did PhD in English Literature." He goes on to tell the class that soon after the marriage his friend found out that his wife had a boyfriend who died while racing a car. Many years later, teacher found his friend crying in a cemetery, and repeatedly saying to grave "why did you die? your death destroyed my life!" Seeing this teacher got concerned and then panicked! He went up to his friend and asked, "what happened, who died??" Came the sulking reply "my wife's boyfriend".

JUMBLE

DSOEPU ○○○○○○

YANSABI ○○○○○○

IEPTXCIL ○○○○○○

USRMC ○○○○○○

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BUZZ OF THE MONTH

- ◆ One of the prestigious clients from the **Quebec** region **decides to broad base its relationship with us and decides to check out the viability of mobile phone** application testing from **Bangalore via PoC method**. This comes **after hardly even a pause after onsite engagement started**.
- ◆ **Kamalpreet Singh Ahuja goes as an additional resource in January 2011 in ongoing work at Edmonton, Alberta.**
- ◆ The marketing **duets** of Rakhee and Durgesh duo seem to be casting **PIED PIPER** effect on the recipients. Wishing them both good luck and greater success in the New Year and years to come. **Let the march roll on!!**
- ◆ **"What a marvel is Experitest!!" says the PO from Marvell Semiconductor**

Introduction to Cloud Testing Part 3 - Types and Classifications

In the industry, cloud testing is broadly classified in two ways:

Testing the Cloud: The applications which have already being migrated to the cloud or are under migration into the cloud are tested to ensure that their performance, security and reliability matches or exceeds expectations in view of changing delivery methods.

The cloud enablement of the applications has its risks associated with it and thus requires proper migration plans, the core of which is testing. The different types of testing services available are: Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS). Different types of testing during the cloud enablement are the Functional testing comprising of system integration and user acceptance testing, Non functional testing comprising the performance and security testing, Compatibility & Interoperability testing and Disaster recovery testing.

Testing using the Cloud: This approach leverages the cloud based hardware infrastructure and computing resources to perform traditional testing like performance, load, stress, security and compatibility testing for regular, on premise applications. The most prominent testing activity that leverages the massive availability of cloud infrastructure (server / load farms) is the performance testing. The performance testing is usually associated with a huge capital investment on tools, infrastructure and resources; however, leveraging the cloud infrastructure, capital expenditure can be converted into operational expenditure. Therefore, by leveraging the cloud infrastructure, companies can not only eliminate the investment on infrastructure and tools but also provide for geographically distributed loads, which are similar to real-world situation, rather than tool-simulated loads.

Thus, we conclude the series by a short note that the tremendous advantage of using the cloud and the pace at which cloud is being adopted, it certainly provides the next level of opportunity for the IT service providers.