



CASE STUDY

Offshore Software Development and Testing Services to a leading eBusiness solution provider.



NAVAYUGA INFOTECH
www.navayuga.com

excellence
Through
Quality

THE CLIENT:

Based in San Jose, California, client provides automation infrastructure and solutions for rapid development and lifecycle management of eApplications. The client in question has successfully delivered custom eSolutions to clients worldwide from Fortune 500 companies to startups, receiving praise for their customer-centered execution. The intelligent engines developed by the client have shown dramatic reductions in development time and effort for custom eApplications. The Client is translating its technologies into leading products of the intelligence age.

PROJECT:

A 12 member Navayuga Infotech team was dedicated to develop and deliver custom built web solutions.

The client had built an Enterprise E-business Engine, which would enabled them to rapidly develop and deploy customized E-business Applications.

Navayuga Infotech has worked with the client on various initiatives and has provided end to end services starting from the integration of all the disparate systems into one synchronized system, we were also involved in a few projects from the proof of concept stage and also in identifying, evaluating, and finalizing the requirements of their clients.

Application Development: Navayuga Infotech became a key partner in the Client's "MADE-TO ORDER" web Solutions Initiatives that included development, enhancements and testing of several web based solutions.

APPLICATION DEVELOPMENT:

Navayuga Infotech became a key partner in the Client's "MADE-TO ORDER" web Solutions Initiatives that included development, enhancements and testing of several web based solutions.



NAVAYUGA INFOTECH'S CORE CONTRIBUTION HAS BEEN IN:

- Providing high quality automated scripts for the product
- Put the product through Functional and Regression testing
- Reporting bugs in the product

SUMMARY OF SERVICES:

- An action plan, test strategy was laid down once the QA engineers reviewed the product documents and related literature.
- Prepare test plans depending on the features/modules of the products.
- Preparation of a test data base.
- Prepared Functional Test outline of each and every test case defined in the test plan.
- Undertook Automation of existing test cases.
- Ran the existing test cases manually for those test cases which could not be automated.
- Kept a track of all the test cases which were executed on a spread sheet for every release.
- Navayuga Infotech ensured delivery of defect free solutions and products by using a custom built browser based Bug Tracking system.
- NIT ran the scripts regressively whenever there was a new build/Release and this process ensured constant updating of the existing scripts and also report the bugs or changes made in the new build / release by use of a bug tracking tool. The bugs that are encountered are constantly updated and tested for in the latest build/release.

PROJECT ENVIRONMENT:

- Software: PHP, Java script, HTML, GD Library
- Web server: Apache server
- Application Server: PHP
- Database: MySql
- Testing Tool: Silk Test 6.5.0, Microsoft-WAS

Client Benefits:

- *We were able to reduce Client's overhead in excess of 50% within 1-month from start.*
- *We were able to communicate tightly with their engineering team and repeatedly delivered quality solutions that the client was comfortable presenting to its own customers*

Exhibit 1: Analysis Report for Load Testing and Performance Testing using Microsoft-WAS tool

WAS Settings

Report name	5/8/2001 10:03	Server	nitsphereo	Note:	
Run length	0:15:00	Number of threads	2	Point I	The log tabe as displayed above which Number shows the timing breakup for the pages requested
of test clients	2	Stocks per thread	1	Point II	The page breakup based on pages with queries, pages with forms
Number of hits	27			Point III	Server statistics such as Memory usage, time spent by a request
Requested per second	0.03			Point IV	Network Statistics like Bytes transmitted and Bytes receive

Clients Used

localhost
Prod209

Page	Hits	TTFB Avg	TTLB Avg	Page Breakup	Point II
GET/Home.bot	4	16920.25	16927.75	Simple page	
GET/detail.bot	4	28363.75	28367.25	Simple page	
POST/EmployeeEntry.bot	4	33060.25	33089.25	Large forms	
POST/Successinsert.bot	4	21799	21806	Simple query	
POST/ViewEmployee.bot	3	51041.33	51064.67	Complex query	
GET/UpdateEmployee					
Detail.bot?select1	2	24419.5	24478.5	Complex form with query	

Computer	Object	Counter	Avg	Min	n25	n50	nit75	Max
\\NITSPHEREO	Memory	%Committed Bytes in Use	37.61	31.3	35.05	37.56	40.27	40.98
\\NITSPHEREO	Processor	% Processor Time	56.83	1.33	23.62	78.02	97.75	100
\\NITSPHEREO	Processor	%User Time	53.87	0.2	35.680.2	94.39	98.27	
\\NITSPHEREO	Server	Bytes Received/sec	46.54	13.86	13.87	14.04	39.99	809.36
\\NITSPHEREO	Server	Bytes Transmitted/Sec	565.51	221	221.05	221.91	507.94	0721.29

Point I	Tomcat Logs (delta in ms)				Server Logs (delta in ms)		
	Starting Send Page At	Calling Do Render At	In Handle Render Event At	Done Handle Render	Finshed Render At	DoRender: begin	Do Render end
#Request							
1	0	12918	32847	39877	393336	9.91802E+11	8473
2	0	10	unknown	unkonwn	unknown	9985	9483
3	10	10	2444	2464	2464	33418	12718
4	0	10	8693	8703	8713	12728	13530
5	0	10	8873	8873	8873	13530	13619
6	0	20	5848	5848	5848	13619	17255

WHY NAVAYUGA ?

A blend of speed and innovation - Offering software solutions with an edge and delivering speedily, thereby winning our client's trust. Apart from the standard benefits of outsourcing such as:

Comparative cost advantages - Greater economies of scale and advantages of specialization created by the offshore model assist the client in reducing operating costs.

Access to specialist resources - The client may build up required capabilities by tapping into our large pool of specialist resources.
Improved focus - By outsourcing operational functions, the client is able to focus capital and resources to its core activities.
 We further promise:

Quick delivery - Our project management methodologies, as well as our disciplined and documented approach to software development ensure prompt delivery.

Uncompromising quality - Having achieved ISO 9001:2000 series certification, we continue to improve our processes by implementing CMM Level 4 thereby facilitating better defect handling and gains in productivity, as well as ensuring on time and on budget delivery.

Access to world-class capabilities - We have made extensive investments in technology, methodologies, and people and have gained expertise by working with many Global 2000 clients. This combination of specialization and expertise gives the client a competitive advantage and helps in avoiding the cost of chasing technology and training.

“Their ability to ramp up capacities rapidly in response to our requirements enabled us to beat critical deadlines.”



ABOUT NAVAYUGA INFOTECH

Navayuga InfoTech (NIT) an ISO 9001; 2000 company is an organization that is built on strong foundations of trust and sincerity. NIT is a star venture of the Navayuga group of companies, a conglomerate whose turnover exceeds US \$100 million. A rapidly growing global consulting and IT services company, we offer affordable solutions and products enabled by stringent quality standards that help clients achieve and maintain a strong competitive edge while delivering substantial savings to the bottom line.

With a strong skilled pool of more than 200 professionals, state-of-the-art development facilities at Hyderabad and Bangalore in India combined with network of sales offices in North America, Europe, and Asia.

Our domain knowledge combined with technology depth has resulted in the development and deployment of world-class software solutions and products in several verticals, NIT currently offers:

- Offshore Software Development and Testing
- Airport Based software solutions and Products
- E Governance Solutions
- E Learning Solutions
- Health Care Related Products

To find out more, visit our website: www.navayuga.com



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