



3Nexus QA for Drug Information Medication System

Your Results.
Our Commitment.



3Nexus performs complete functional, loads, and usability testing for the Drug Information Medical System (DIMS). The software enables the client to provide medical advice for patients, store drug information, share medical info using international pharmaceutical standards. The new system users (e.g. doctors, patients, consultants, pharmacists, medical documentation writers, etc.) work separately while sharing valuable information to support medical analysis.

"We have enjoyed working with your experts alongside with the development team and cannot imagine better interaction to ensure the two processes go hand in hand timed so precisely and with best results."

Gerd Steinhof Project Manager

Industry	Healthcare
Solution	Drug Information Medical System
Services Used	Custom Software Development
Technologies	Programming Languages: C# Net Technologies: Client-Server Database Server: MS SQL 2005 Test Tools: Silk Performer (performance and stress-testing tool), Rational XDE Tester (web service testing automation software)
Engagement Model	Fixed Price for Iteration
Efforts	16 man-months

Key Features:

- ◆ **Patient module** allows the patient to view his medical history and to find information in the knowledge base
- ◆ **Medical Advice module** allows medical staff to manage patient's data and to provide medical advice according to patient's records.
- ◆ **Paper Creation module** creates medical papers for publishing (in compliance with medical paper design standards)
- ◆ **Content Management module** contains two databases with medical info and allows importing data from a file or an external database
- ◆ **Web Crawling module** allows scheduled Internet crawling (with either Google API or RSS) for keywords and storing the acquired information
- ◆ **Pharmacy module** allows pharmacy staff to manage patient's data (e.g. prescribed medicines) and collaborate with Geriatric Homes. Moreover, the module contains the functionality for working with "Baxter" Unit Dose machine
- ◆ **Offline tool** allows pharmacy workers to manage patients offline and synchronize the changes with the main server. It allows doctors and technicians to work when internet access is not available or when the hosting server is down.

www.3Nexus.com

Solutions:

Testing activities started right after the requirement phase of the project lifecycle. While the development team designs and codes, the quality assurance team develops test cases and requirement traceability matrix. During the project life cycle, the QA team performs the followings:

- ◆ Development of test documentation (test scenarios and test cases]
- ◆ Functional testing (automated and manual solutions)
- ◆ Web services testing (automated approach)
- ◆ GUI testing
- ◆ Performance and stress testing (automated approach)

More than 1500 defects and enhancements were found, reported, and fixed, which significantly improved the quality of the application.

Customer Benefits:

Our client enjoyed many benefits:

- ◆ The flexible working scheme allowed the client to make changes to the system during development and monitor the system progress.
- ◆ A full set of structured testing documentation was developed by the QA team (testing results, final reports, and quality evaluation).
- ◆ The customer managed to avoid redevelopment costs due to timely feedback from the QA team.
- ◆ The customer limited its participation in the project to overall progress control because the transparency of the testing process made it possible for the team to resolve all major problems independently.

Technologies:

Automation Tools: Silk Performer (performance and stress-testing tool), Rational XDE Tester (web service testing automation software)

Defect Tracking System: IBM Rational ClearQuest and ClearQuest Web

Efforts:

16 man-months



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