



# 3Nexus QA for In-patient Facility Management System

Your Results.  
Our Commitment.



Client is a leading provider of in-patient facility management system used in most centers in Spain. 3Nexus team provided functional and load testing in multiple OS, browsers, and languages. The critical challenge was the lack of specification or requirement of the system. By collaboration between the QA specialists, developers, and client business analysts, more than 1200 defects and necessary enhancements were uncovered, reported, and fixed during the testing process.

<b>Industry</b>	Health Care
<b>Solution</b>	Quality Assurance
<b>Services Used</b>	Functional and Load Test
<b>Technologies</b>	Platform: Delphi 7.0 Database Server: MS SQL server 2000 EurekaLog 6.0
<b>Engagement Model</b>	Time and Materials
<b>Efforts</b>	16 man-months

## Key Features:

The system manages the complete communication and accounting cycle between healthcare service institutions and their patients, partners, and vendors.

- ◆ Patient Health Information Management
- ◆ Documentation Management and Workflow
- ◆ Payment and Accounting Management
- ◆ Service Scheduling and SMS Notification Automation
- ◆ Bed Management
- ◆ Inventory Management
- ◆ Business Intelligence Reporting

## Solutions:

More than 1,200 defects and necessary enhancements were uncovered, reported, and fixed during the testing process. 3Nexus quality assurance team performed the followings:

- ◆ Create thousands of test cases. Generate test data.
- ◆ Track defects and resolutions. Facilitate discussion and regular progress reports to the client.
- ◆ Perform system functionality test.
- ◆ Perform system integration test to third-party systems
- ◆ Exercise external output device integration to ensure seamless monitor display and printing service.
- ◆ Utilize VMWare technologies to ensure portability on Windows 2000, XP, and multiple browsers (Mac, Firefox, IE)
- ◆ Test system usability and multi-language support (English and Spanish)
- ◆ Perform load and performance test

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The cooperation of the QA team, developers, and client was built on a web-based defect tracking system. In the absence of specifications, issues were primarily solved in communications between the QA and development teams, and client business analysts. Instant Messenger, VoIP, and Web Conference technologies greatly improved the performance of the team.

#### **Customer Benefits:**

Complex functionality of the project required close and consistent cooperation of all stakeholders, which was arranged as part of the overall effective communication process. The quality of the product was significantly improved after 1,200 defects and necessary enhancements were detected and implemented.

#### **Technologies:**

**Operating Systems:** Windows 2000 Professional (Spain/English) and Windows XP Professional (Spanish/English)

**Defect Tracking System:** Customer web-based defect tracking system

**Version Control System:** Microsoft SharePoint Portal

**Development Environment:** Delphi 7.0

**Database:** MS SQL Server 2000

**Other Tools:** EurekaLog 6.0

#### **Efforts:**

16 man-months



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