

Real Time Monitoring System For UK Based Consultant

[INFORMATION TECHNOLOGY – CUSTOM APPLICATION – ASP.NET / MS SQL]

Client Overview

About Client: A U.K based I.T Company providing software solution to make more efficient their customer businesses. The company is specializing for providing database solutions. Client Company has formed to produce monitoring for products which meet a real client need.

Requirement Overview: The requirement is to develop multipurpose mobile monitoring system which can be using by different client with different purpose. The following would be the requirement specification for the Client mobile application development within scope:

1. PDA: Required to develop a PDA based application (or similar hand-held device) with the purpose to recording the results of surveys carried out.

2. Central System Development: Required to develop a Central System where the information can be analyzed and Create analysis reports for different data records. The system should be access via browsers. The new central system should be

synchronized via PDA device.

The Client system can be using by different organizations by many different ways.

Proposed Solution: Silver Touch has provided a comprehensive solutions using .Net Framework 3.5 over the MS SQL server 2005 database. The provided solution is known as real time monitoring system for a Healthcare Service Providers which are commonly known as Hospitals and Medical institutions. Developed application is used by different Healthcare Service Provider for the purpose to generate reports for regular update and manage it in proper way.



Real Time Monitoring System

Benefits

1. This Application is using by different United Kingdom based medical hospitals through U.K. National Health Services.
2. This application is providing two different panels as WEB and MOBILE.
3. The main aim is to use PDAs (mobile devices) by Health Care Service provider to monitor & inspect various aspects of hospitals within the use of some scheduler as well as Questionnaires.

Project Description

The application (Audit to Improve) is developed for a Healthcare Service Provider based on U.K. The real time monitoring system is to be used by the UK National Health Services (hospitals and medical institutes for inspection). Application contains mainly two panels, **Web Panel** as well as **Mobile Panel**. The main aim is to use PDAs (mobile devices) to monitor & inspect various aspects of hospitals with the use of some "Scheduler" as well as "Questionnaires". Data is gathered via PDAs, which is then synchronized with the central database. The data in this database is used to generate reports which are being used by the management of the hospital. These reports indicate whether performance targets are being met or not.

However, the data is gathering from PDAs by the system, if any failure is found after gathering data from PDAs then the "Task" should be created and assigned to concerned people to resolve the issues. This should be managed by Calendaring and Action Plans.

In summary: One can always ensure that something is working properly if one test is done regularly. If one does these regular tests and if the test meets certain standards, then things are being managed properly. This helps to ensure good "Governance".

Client application is live to use and running successfully and productively. It is currently being used by 10 UK based Hospitals to monitor/inspect various aspects of their hospitals and they are very glad with functionalities and performance of the application.

Objectives

The Project Objectives were:

1. To evaluate the best solution for Hospitals to monitor various aspects of the hospitals.
2. Generate various reports with the accurate data that will be used by management to map the performance of the Hospital.
3. Provide "Scheduler" to check various fails for the particular Location based on various Services.
4. Use Microsoft .Net Compact Framework & C#.Net for frontend and MS SQL Light version for the database in PDA Application.
5. Provide a solution to manage their Governance related documents (small CMS like modules).

Real Time Monitoring System

Project Approach / Activities

The Project has divided into various phases to achieve the best results in less time within optimal utilization of available resources & .Net features, capabilities and new enhancements.

1. **Phase I:** Understanding Requirements of an application, Design Architectures and database design. Review risk points of application.
2. **Phase II:** Created a web admin panel to perform various administrative functionalities.
3. **Phase III:** Created data entry pages which allows user to take Audits, Create a Tasks, Manage Tasks via scheduling functionality.
4. **Phase IV:** Created different modules synchronization with the PDA data to central database server using Web Service.
5. **Phase V:** Created Reports modules to generate data summary reports with accurate data.
6. **Phase VI:** Created Permission module to check user's Roles and Rights.
7. **Phase VII:** Created PDA automatic updater application to update the PDA application version on the client's PDA.

Technology

Development Platform

Technology	Specifications
Technology & Framework	.Net frame work 3.5
Database	MS SQL Server 2005
Web Server/Hosting Platform	IIS 6.0
Languages	ASP .Net, C#
Operating System	Windows XP SP 2

Deployment Platform

Technology	Specifications
Technology & Framework	.Net frame work 3.5
Database	MS SQL Server 2005
Email	Client SMTP
Web Server/Hosting Platform	IIS 7.0
Languages	ASP .Net, C#
Operating System	Windows server 2003

Duration

Project Man Hours: 3088 man hours

Project Life Cycle: 408 Days

Results Achieved

1. Application has deployed over the client server and running successfully.
2. System has developed via different purpose: PDA based development, Centralized system development; Central system is synchronized with PDA application.

Real Time Monitoring System

Screens



Real Time Monitoring System



Deliver best products, software solutions and services, on time with quality, and as per customer expectations

About SilverTouch

SilverTouch, a company established in 1992 is widely accepted for its IT solutions with a huge customer base in more than 20 countries across the world.

SilverTouch is actively engaged in Enterprise software development, enterprise content management, document management and IT consulting services such as Business process optimization, process consulting, implementation and customization of ERP. SilverTouch leads brilliantly in new technical developments such as: Mobile Application development services on iPhone, iPad, Blackberry, Android, J2ME and Windows mobile platforms. Even now, SilverTouch helps its global clients for major developments, deployments and managements of their mobility solutions and enterprise application development programs.

SilverTouch has alliance with several industry leaders such as Microsoft, Apple, Cisco, IBM, Oracle, SAP, Java, Dell, VM ware, Symantec, Sonic Wall which provides a competitive edge over other industry peers and targets to understand and cater to all types of requirements that concern our clients, thereby, leading to serve them precisely to their satisfaction.

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