

## Executive Summary

Web Access Tracking System (WATS) is a Web-based, real-time, high performance Fleet Management System. Multiple Organizations can manage their fleets through this online system. The users of this system can track vehicles online, manage organizations, categories, icons, vehicle groups, zones, vehicles, users, user groups, report and history track. This system was already developed and it was given to Technosoft to add new features.

### About Client:

### Requirements:

WATS required some enhancements like Vehicle Maintenance Alerts, Alarms, Points of Interests, MAP Layers, Route Plan, New Dashboard, Logging, Arabic language support and some new reports. Integration with AVL will be through AVL Gateway. WATS required not only huge amount of live data from vehicle locators being showed correctly on website but also on the smartphones.

### Business Solution Provided:

Technosoft had to address all the challenges mentioned above within a very limited timeframe. We decided to develop the solution in Microsoft .NET platform and it consisted of following major modules.

1. Home Screen Module
2. History Module
3. Alarms and Alerts Module

The above 3 Modules on a smartphone were at User's disposal and the user could track any vehicle's location through Geo Location, see vehicle's that was not in service and any alarms or alerts sent because of a vehicle through Geographic Information System.

Other Major Solutions that were provided to WATS in order to solve the problems were as following:

- Geo Fencing
- Alarms and Alerts
- Point Of Interest
- Maintenance Plan
- KML Layers
- Route Plan

### Achievements:

- 1) Manage huge amount of live and historical data coming from vehicle locators and project it correctly on map on website as well as on smartphones.
- 2) Write algorithms such as distance travelled, geo-fencing, over-speeding, long stop, out of duty etc. to calculate alarms on running vehicles and sending continuous data.
- 3) Implement the smartphone version on the app which has only changed front end and we used 80% of the code from the website.
- 4) The smartphone version of application was completed successfully with so many technical restrictions like showing huge vehicle tracks data on a phone with 512 RAM only using data connectivity through GPRS.
- 5) Manipulate KML layers as a smart approach for showing large data on smartphone instead of drawing tracks by poly lines on Google maps.
- 6) On time delivery of every build to the client and efficient respond to client's quires and suggestion.

### **Technologies Used:**

*This project will be developed based on the technologies listed below:*

- *.Net Framework 3.5*
- *ASP.NET*
- *C#*
- *Web Server – IIS 6.0 or above*
- *Microsoft Visual Studio 2010*
- *MySQL*
- *Microsoft SQL Server 2008*

### **About Technosoft Solutions Inc.**

Technosoft Solutions Inc. is leading outsourcing software and application development Company dedicated in Healthcare Software Development and Integration Services. We are offering a full range of IT solution and support services to companies developing healthcare solution for the U.S market. For more than 10 years, our commitment to providing reliable healthcare system software solutions has remained constant and stable.

Many of our clients are well versed in software development and have healthcare solutions deployed at main hospitals. We augment their resources with our HL7 integration, HIPAA privacy & security services.

We are endowed with quality certifications and standards, including CMMI ML2, ISO 9001:2008, Sun, MySQL and as IBM Certified Partner.



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