



Experion Case Study

Mobile based Project Management Tool



Windows Mobile based Project Management Tool for the Oil & Gas Industry

Overview

Customer Profile

An industry leading engineering and consulting firm focused in the Oil & Gas industry.

Location: Middle East

Industry: Oil & Gas Exploration

Business Situation

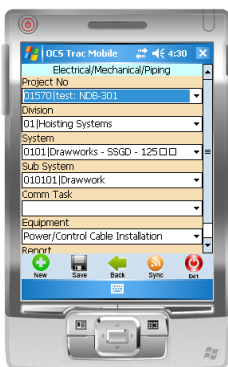
Develop a mobile/ PDA based tool as an extension to web based Project Management tool

Solution

Designed and developed the mobile application using Microsoft .NET compact framework.

Technology

Windows CE, .NET compact framework 3.5, SQL CE



Client Need

The client is a leading engineering and consulting firm focused in the Oil & Gas industry. From providing project management and commissioning services to safety training and IT consulting, the client offers specialty services to solve most complex technical challenges faced in the Oil and Gas domain.

The client's project management application included inspection forms that are to be filled in by the field users. With the usage of handheld devices extended to enterprises in the Oil & Gas industry, the client wanted some of the key forms to be accessed via mobile phones/PDAs. This would allow field users to fill up inspection forms directly, reducing errors & omissions and avoiding time delays. The application was also required to work offline, where connectivity to the server is limited or unavailable. In addition to that, a configurable inspection form, ability to synchronize with existing application via wired/wireless mode and the ability to work in multiple Windows mobile devices were to be developed as part of this project.

Experion Solution

Experion designed and developed the mobile application using Microsoft .NET compact framework which is the native development platform for Windows Mobile devices. The mobile application uses a replica of the original SQL server database used in the PC application. The SQL database in mobile device is managed using SQL server compact edition and data synchronization is implemented using Microsoft ActiveSync framework.

The mobile application uses a flexible design approach by separating the form layouts from the rest of the application. The forms are represented as an XML document and the UI engine renders the XML form during runtime. The solution runs on Windows Mobile 5.0 and Windows Mobile 6.0 Mobile phones.

Key Benefits:

- Mobile extension – The application extends the rich functionality of the existing application to handheld mobile devices
- Simplified data capture – Allows field users to directly capture inspection data and update the system automatically
- Enhanced functionality – Inspection forms are configurable to accommodate new equipment
- Remote usage – Can be used offline and later data synchronized with existing web application using Microsoft ActiveSync
- High usability - Forms are designed to automatically fit the mobile device and help the user to navigate the screens intuitively.

About Experion: A 5+ year old company founded and managed by a team of experienced professionals with more than 200+ years of combined experience in technology and international business. Experion has a track record of delivering enterprise, mobile, web and engineering solutions to over 50 customers worldwide. Our customers range from Fortune 500 and Global 2000 corporations to early stage start-ups.

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