Comprehensive and Integrated approach towards
Data Management in Oil & Gas Industry

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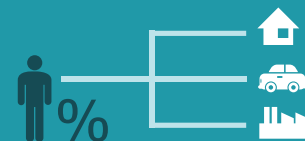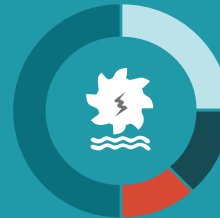
PSI partners with an intelligence software provider catering specifically to Oil & Gas Industry.

About the Client

The client is a market leader specializing in easy to use professional intelligence software for oil & gas industry. The software is technologically innovative and provides comprehensive, flexible and best value solutions for streamlining and automating field-data capture, production measurement, regulatory compliance, risk management, production and financial accounting.

Client's Product

The product is an industry specific solution, which helps organizations analyze the fluid composition and manage the data through software.

- Captures regular and accurate on-field data on the fluid composition

- Creates analytical reports for measurement and product allocation systems

Solution Approach & Methodology

Client was looking for a highly specialized software product engineering company. They needed a partner who could work as an extended team and follow the solution roadmap to deliver the changes on time.

Another very important requirement was to maintain exactly the same design & navigation aspects of the desktop version. The client wanted to develop a high performance web application offering faster access to reports and data analysis with a dashboard tool.

Key Highlights of the approach

- PSI analyst and architect developed thorough understanding of the project during requirement gathering and analysis phase

- PSI team used ASP.NET Web API an interim layer and hosted it on a separate Windows server for scalability

- PSI team regularly interacted with the client for document reviews and sign-offs

- The client could monitor the work progress through the live links at each project milestone

- The team used SSRS for reporting services, which offered the ability to build scalable reports quickly

- The project was delivered within the stipulated time frame with comprehensive unit, system & performance testing

Key Business Challenges

- Creating a single repository of data collected from different locations

- Ease of implementation of software and coordination with other applications utilized in the functional areas

- Coordinate sample verification and accuracy schedules

- Dissemination of analytical reports to the end clients
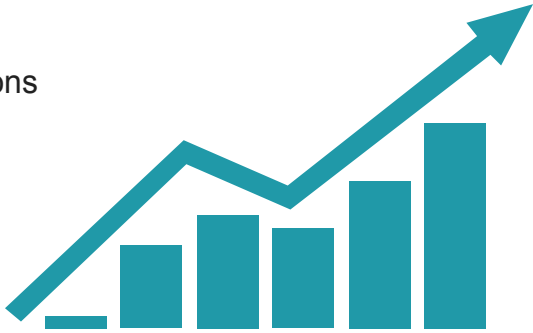
Key Technical Challenges

- Transmission from erstwhile system having enormous databases for different clients to the new web based system and develop SAAS based multi-tenant application

- Creating a robust and scalable web application which can support 10,000+ concurrent active users

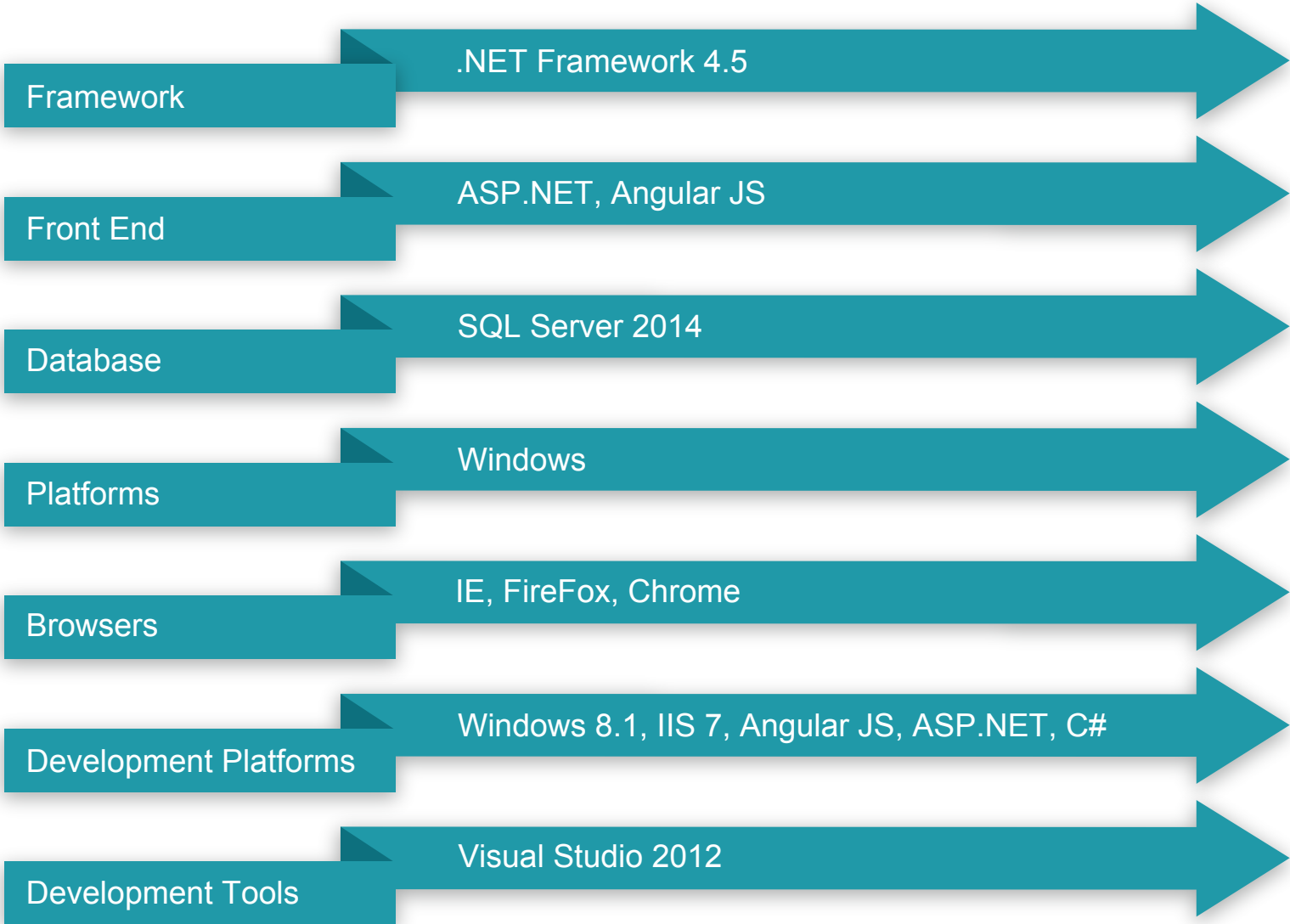- To deliver a robust application compatible across all the browsers
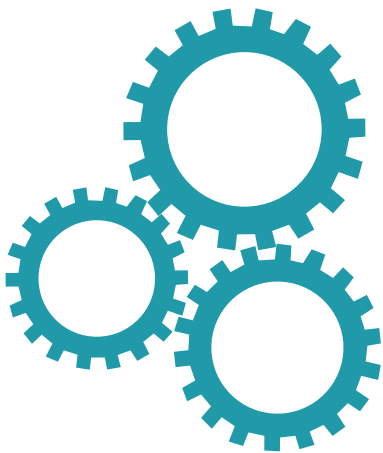
Achievements

- Successfully rolled out the Web Application of the Composition Analysis Management software

- Utilized our expertise in Microsoft capabilities to resolve the various issues

- Successfully completed the additional features requested by the client within timelines

- The delivered product quality and efficiency has resulted in long term association with the client

- Subsequently we have been associated with the client on various other software projects

Technology Deployed

Framework	.NET Framework 4.5
Front End	ASP.NET, Angular JS
Database	SQL Server 2014
Platforms	Windows
Browsers	IE, FireFox, Chrome
Development Platforms	Windows 8.1, IIS 7, Angular JS, ASP.NET, C#
Development Tools	Visual Studio 2012

Project Highlights

Client : Market leader in intelligence software services

Location : Canada

Industry : Oil & Gas/ B2B

Project Duration : 3+ Years

Team Size : 13 people

Delivery Model : Agile – Scrum

Engagement Model : Retainership