

## CONSTRUCTION / ENGINEERING – Progress & Performance Portal

### Overview

Dallas-based Fluor Corporation, a Fortune 500 company, is one of the largest publicly owned engineering, procurement, construction and maintenance services organizations in the world. Fluor serves customers in a wide variety of traditional and evolving industries worldwide, including chemicals and petrochemicals, commercial and institutional, government projects, life sciences, manufacturing, microelectronics, mining, oil and gas, power, telecommunications, and transportation infrastructure.

# FLUOR®

### Business Needs

MileMarker is a Field Progress and Performance application used on job sites to track actual and budget information related to area/units, cost codes and milestones. The application was an Access 97 application that was distributed to each location worldwide, and each location maintained a version of the application without sharing data between versions of the system. Fluor requested that the application be converted to a web-based system, utilizing a centralized, scalable database.



### Strategy

In the past, a Requirements Document and Functional Specifications had been completed for this project. However, that previous design utilized an Oracle database. The new system would utilize Microsoft SQL Server, with the system installed on a central network where all users could share a common database. The system would also be installed at remote job sites where a data synchronization tool could synchronize remote data with the enterprise central database.

An initial Requirements process was funded by Fluor to review the current application and the previous design of a web-based solution. Subject matter experts from Fluor spent three days onsite at Logical Advantage. From this process, a new database schema was developed, as well as a revised Requirements Document and Functional Specifications document. From beginning to end, the project would be developed by a team composed of members from both Logical Advantage and Fluor.

### Benefits

By migrating the application to a web-based solution and by utilizing a robust database engine, the application became much more reliable, stable, scalable and secure. The application had previously been installed on PCs at a job site, posing a security risk as the application and all data were potentially accessible to Fluor competitors. The new web-based application leveraged existing security and user credentials by integrating with their Active Directory. Running the application from a central network location made the application and data secure, ensuring that they were inaccessible to unauthorized users. The alternate version of the application enabled the reality of a secure network at remote project locations.

### About Logical Advantage

Logical Advantage is an award-winning, full-service Information Technology consulting and application outsourcing company. We are dedicated to providing high-quality, cost-effective custom software development and consulting services. We specialize in mastering complex business challenges, delivering mission critical solutions backed by our deep expertise and proficiency in Microsoft® technologies.