



SCS Case Study

SCS Supplements Delaget's R&D Staff from Inception Through the Beta and Release Phases

Released Application Can Analyze Various In-store Transactional Metrics

Solution Snapshot

Business Situation: Ramping up for the latest software offering of GUARD, a loss prevention web application, [Delaget](#) looked to SCS to supplement its R&D staff from inception through the beta and release phases of the project.

Multi-Point Solution: The GUARD team used Test Driven Development (TDD), Inversion of Control (IOC) and Dependency Injection with Simple Injector. Database development included SQL Server 2008 database design, modeling, and stored procedure creation and repository pattern using Dapper.

Technologies Used: ASP.NET MVC 5 platform using Visual Studio 2013 with C# .NET 4.5, jQuery, AJAX, SVG, and Log4Net. Responsive UX design for various device viewports were managed with SSAS using Ruby and SMACCS approach. Agile project management with JIRA and source control management by Subversion SVN and ANKH was used along with automated deployments using Team City.

Benefits: The application can analyze various transactional metrics found in store operations that can be linked to fraud. Managers can review high-level restaurant data, drill into suspicious transactions, and view video playback. As a result of this type of visibility, Delaget has received favorable response from its clients.

The Client

Delaget is a leader in providing multi-unit restaurant operators nationwide with innovative restaurant technology solutions that transform data into meaningful, actionable insights. The company's advanced loss prevention, unit-level analytics, and enterprise reporting services, along with expert payroll and accounting support, empowers those in the restaurant business to take control of their margins and maximize profits. Clients benefiting from Delaget's more than 40 years of restaurant experience include Hard Rock Café, IHOP, KFC, Panda Express, Pizza Hut, Taco Bell, and more.

The Challenge

In November 2014, Delaget was ramping up for its latest software offering, a loss prevention web application named GUARD. The company had an existing client base using several operational tools as a part of its suite of software applications, and looked to SCS to supplement its R&D staff.

SCS provided development and quality assurance support to jumpstart the architecture and development phases of GUARD, while much of Delaget's existing team was dedicated to supporting other segments of its operations and client base. SCS supported the GUARD project from the inception through the beta and release phases of the project.

The Solution

GUARD's architecture is built on the ASP.NET MVC 5 platform using Visual Studio 2013 with C# .NET 4.5. The GUARD team used Test Driven Development (TDD), Inversion of Control (IOC) and Dependency Injection with Simple Injector. Database development included SQL Server 2008 database design, modeling, and stored procedure creation with a repository pattern using Dapper. In addition, Agile project management with JIRA and source control management by Subversion SVN and ANKH was used along with automated deployments using Team City. Other technologies include jQuery, AJAX, SVG, and Log4Net. Responsive UX design for various device viewports were managed with SSAS using Ruby and SMACCS approach.

The Result

GUARD further differentiates Delaget in the industry by offering clients a direct look into loss prevention. The resulting application analyzes various transactional metrics found in store operations that can be linked to fraud. Managers can review high-level restaurant data, drill into suspicious transactions, and view video playback. Formatted dashboards present store rankings, estimated losses and employee grades in simple gauges that can be reviewed by company, region, and employee levels. Daily checklists are generated using proprietary logic to identify trends of the most severe instances of fraud. Responsive web design delivers a consistent experience from any PC browser or mobile device. At this point, Delaget is in the initial phase of GUARD's marketing campaign and has had favorable response from its clients.

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