SanDisk Cuts Development Time by 30% with Progress

CASE STUDY

SanDisk

INDUSTRY
Technology & Software

PRODUCT
Kendo UI, Telerik UI for ASP.NET MVC

SUMMARY
SanDisk needed to quickly create a custom app that could help modernize its planning and forecasting process. Using Kendo UI and Telerik UI for ASP.NET MVC to accelerate UI development, the company was able to build the app in just three months.

> "With the help of Progress technologies, the AI team built an easy-to-use application that is well integrated with the existing ERP/Data Warehouse. It was well received by business users due to its user-friendly UI, data accuracy and responsiveness."
>
> **Deepak Kakar**,
> Senior Manager of IT
> at SanDisk

Challenge

SanDisk designs, develops and manufactures flash memory storage devices and software. Its memory products are used in many market segments such as consumer electronics, mobile devices and various computing sectors.

As an industry leader in the flash storage area, SanDisk maintains sophisticated processes around planning and can forecast market trends five or more years ahead, using multiple spreadsheets from different departments and analysts. However, the spreadsheet-based processes were inefficient, and the spreadsheets were inconsistent among various IT teams throughout the company. SanDisk needed a custom application that automates the current planning processes and minimizes the use of spreadsheets.

Because SanDisk uses SAP for various applications and business intelligence (BI), the planning team wanted to leverage SAP for its planning application and build the BI interface. To keep pace with the company's planning schedule, it was critical to go live with this application before Q3; otherwise, business users would not be able to leverage the new application, and the project could be scrapped.

Solution

Progress partner AI Software proposed building a web-based custom application using Progress® Kendo UI®, which provides web developers with a feature-rich set of browser-based HTML5 and jQuery controls that are easy to use and work seamlessly in cross-platform browsers. As part of the framework, Progress® Telerik® UI for ASP.NET MVC enables the creation of fast-performing web applications.

The end application was built using HTML5 and jQuery-based Kendo UI controls, Telerik UI for ASP.NET MVC, a web API and a service layer that uses a custom Data Access Layer specifically developed for SAP HANA. Featuring highly interactive grids, drop-down and tab strip controls, the application renders seamlessly in multiple desktop browsers and tablets and can forecast production numbers at various hierarchical levels. Analysts can maintain various versions of their forecasts and merge them into the final published version developed by the planning managers or VPs. The reports are published at the end of every quarter using BI tools such as Tableau, and released to a larger audience, including the CEO and other decision makers in the company.

> "There are several .Net tools and controls out there, but Kendo UI provides the most programmer friendly interface via jQuery and AngularJS to create rich UI web applications. And we know clients like SanDisk cannot settle for anything less."
>
> **Piyush Bhatt,**
> CEO, AI Software

Three developers who specialize in .Net, Kendo UI and jQuery worked on the project. It took three months to completely develop and release the solution for production. AI Software also helped migrate the existing data from Excel spreadsheets into the HANA database.

Results

With this new application, SanDisk users can plan and forecast production and sales numbers for all different markets they serve, without maintaining spreadsheets. Analysts are able to create sandbox versions of their forecasts and perform what-if analyses, by generating charts and reports using the BI tools. With the application's help, the SanDisk team can submit the forecast within the required time frames.

According to Deepak Kakar, Senior Manager of IT at SanDisk, AI developers at SanDisk report that development effort is reduced by roughly 30% when using Kendo UI controls instead of native ASP.NET MVC controls. The team successfully built a web-based app in just three months, with the desired

functionality, which also integrates with the SAP/HANA database and supports multiple browsers. Kendo UI controls provide themes and device responsiveness out-of-the-box, which developers can easily integrate into their applications. This enabled the team to make its deadline and go live on schedule.

About SanDisk

SanDisk Corporation (NASDAQ: SNDK), a Fortune 500 and S&P 500 company, is a global leader in flash storage solutions. For more than 27 years, SanDisk has expanded the possibilities of storage, providing trusted and innovative products that have transformed the electronics industry. Today, SanDisk's quality, state-of-the-art solutions are at the heart of many of the world's largest data centers, and embedded in advanced smartphones, tablets and PCs. SanDisk's consumer products are available at hundreds of thousands of retail stores worldwide.

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