

Autolnergy Cuts Approval Time for CAD Drawings in Half by Automating Processes with Telerik and Kendo UI

CASE STUDY



PLASTIC OMNIUM

INDUSTRY

Automotive/Manufacturing

PRODUCT

Kendo UI and Telerik UI for ASP.NET MVC

SUMMARY

Autolnergy leveraged Kendo UI and Telerik UI for ASP.NET MVC to build a web-based application to automate the process of drawing approval and transferring them to suppliers

“With the old, manual process, our users could only approve about 100 drawings per month. With the new application based on Progress products, they approved 105 drawings in just two weeks. In other words, their efficiency doubled.”

Jeremy Lempicki,
Manager at
Autolnergy

Challenge

Autolnergy, a division of Plastic-Omnium, is a tier-one supplier of complete plastic fuel systems and emission reduction related fluids systems to car manufacturers. The company's engineering and design team designs 2-D CAD Drawings for various parts and sends them to suppliers throughout the world, who use the drawings to quote and manufacture the parts.

Autolnergy was processing the approvals of drawings manually by printing, stamping, signing and scanning them in PDF format, and uploading them to locations where suppliers had secure access to view them. This manual process required reprinting and re-signing, and was wasting time and resources. In fact, a staff member was dedicated to coordinating approvals and transferring the paperwork to suppliers. To replace this function and automate the process, the team needed a custom application.

“Our coordinator was retiring, so we had to build the custom app quickly,” said Jeremy Lempicki, Manager at Autolnergy. “Otherwise, we wouldn't be able to send our approved drawings to suppliers in a timely manner.”

Solution

Progress partner AI Software built a custom web application using Progress® Kendo UI® and Telerik UI® for ASP.NET MVC.

“Kendo UI provides AI developers with a feature-rich set of browser-based HTML 5 and jQuery controls that are easy to use and work seamlessly in cross-platform browsers,” said Piyush Bhatt, CEO of AI Software. “Telerik UI for ASP.NET MVC provides the platform to create fast-performing web applications.”

AI Software delivered a new application within 11 weeks that renders seamlessly in different types of browsers.

The application enables engineers and designers to open the PDF drawing and stamp it using the digital signature to mark it approved. When an authorized person transfers the drawing to one or more suppliers, the file is compressed and uploaded to a shared location from which the suppliers can download the drawing using secure file transfer protocols. The application automatically notifies the suppliers of the transferred drawing.

The application uses SQL Server on the backend and supports multiple cross-browser platforms. The AI team built a T4 template-based custom data access layer to speed up development.

The team included two developers and one senior developer. “AI’s team was proficient with the Kendo UI controls and .NET in general, and this helped them deliver the solution quickly,” said Bhatt.

Results

The new application enables Autolnergy users to quickly approve and transfer drawings to suppliers. “With the old, manual process, our users could only approve about 100 drawings per month,” said Lempicki. “With the new application based on Progress products, they approved 105 drawings in just two weeks. In other words, their efficiency doubled.”

User feedback has been extremely positive with regard to the application’s ease of use and the speed at which they can complete their 2D Drawing approvals and transfers.

About Autolnergy Division

A first-tier automotive equipment manufacturer, the Autolnergy Division designs and supplies fuel systems and fluid management systems for pollution reduction. The world leader

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Piyush Bhatt,
CEO of AI Software

in this market, Plastic Omnium Autolnergy Division has more than 6,000 employees at 31 industrial sites in 19 countries, and in 2013 provided 18 million fuel systems for the main automobile manufacturers.

www.plasticomnium.com

About AI Software

AI Software, a custom web and mobile application development company with offices in Metro Detroit, USA and Ahmedabad, India, is a Microsoft Silver Application development partner and Telerik Platinum Partner. Over last 5 years and more, AI Software has helped enterprise clients and their IT departments by developing and maintaining modern web and mobile applications with innovative solutions and extendible architecture all within optimum budget. Visit AI Software at: www.aisoftwarellc.com



To learn more, visit
<https://www.telerik.com/kendo-ui>

About Progress

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