

Drawing Approval and Transfer Application

CLIENT



INDUSTRY
Automotive /
Manufacturing

BACKGROUND

Autolnergy, a division of Plastic-Omnium, is a Tier 1 supplier of complete plastic fuel systems and emission reduction related fluids systems to car manufacturers. They used manual process to stamp and send 2D drawings to their suppliers.

CHALLENGE

Client needed the solution completed before their key staff member leave within 3 months so that the current requirement of drawing approval and transfer does not stall.

TECHNICAL DETAILS

Please include information about the following, where applicable:

- Operating System :
Windows Server 2012
- Database Platform:
Microsoft SQL Server
- Number of developers:
3

Project Description

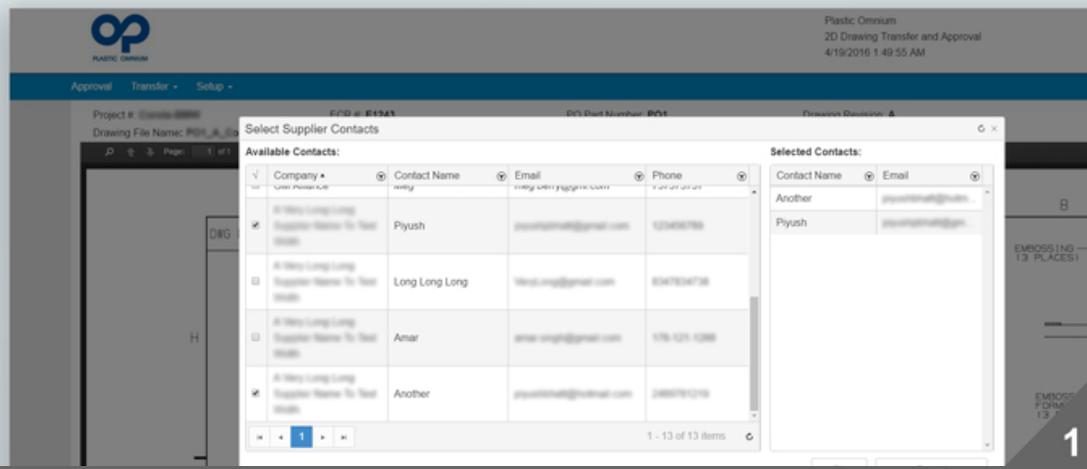
Autolnergy, a division of Plastic-Omnium, is a Tier 1 supplier of complete plastic fuel systems and emission reduction related fluids systems to car manufacturers. Their engineering and design team designs 2D CAD Drawings for various parts and sends them to suppliers throughout the world. The suppliers use these drawings to quote as well as manufacture the parts.

AI Software built a web based application to automate the process of drawing approval and transferring them to suppliers.

Business Situation

The Autolnergy division had a manual process of approving the drawings by printing, stamping, signing, and scanning in PDF format and uploading to locations where suppliers can access securely. The manual process took lot of time and wasted human resources when it needed reprinting and re-signing.

The company had a staff member dedicated to co-ordinate the process of drawing approval and transferring it to the suppliers. This staff-member was retiring and the company was looking for a custom application to automate the process. It was also a challenge that if the application was not ready by the time their coordinator retires, then it would impact their ability to send the drawings to suppliers in timely manner.



Solution

AI Software built a custom web application using Telerik® Kendo UI® platform and Telerik® UI for MVC. Telerik Kendo UI framework 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. Telerik UI for MVC provides the platform to create fast-performing web applications.

AI Software delivered a new application within 12 weeks that renders seamlessly in different types of desktop browsers. The application enables engineers and designers to open the PDF drawing, stamp them using the digital signature and approve them. When an authorized person transfers the drawings to one or more suppliers, the files are compressed and uploaded to a shared location from where the suppliers can receive using secure file transfer protocols. The application automatically notifies the suppliers of the transferred drawing.

The application uses MS-SQL Server as a back-end and AIS team built a T4 template based custom ORM to speed up the development.

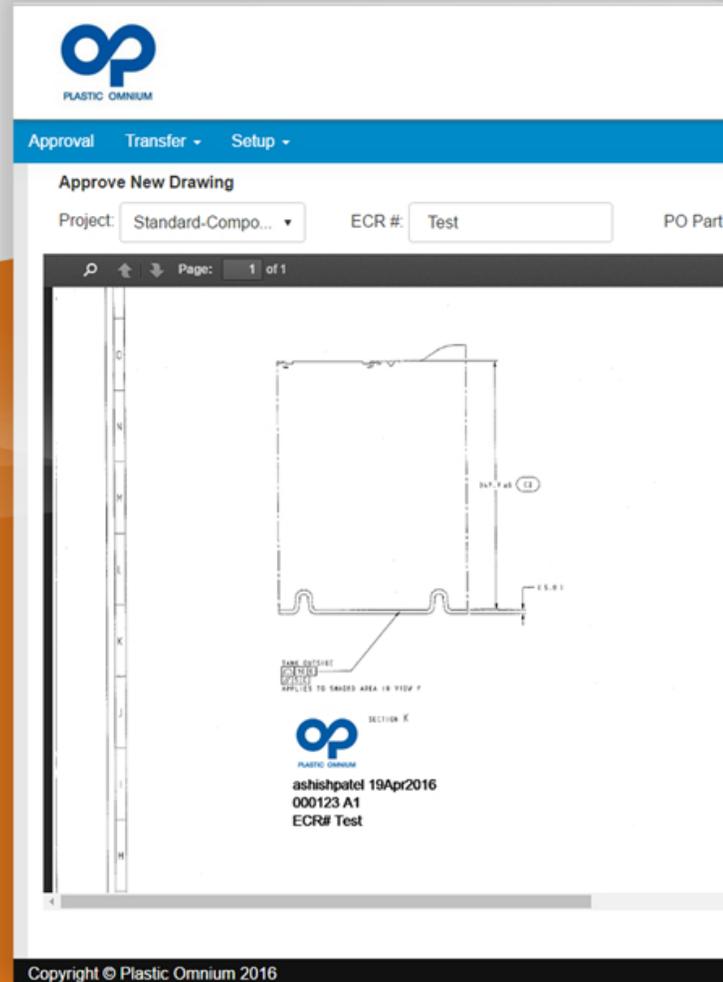
The team included two developers and one senior developer during 10-12 weeks. AIS team is very proficient with the Telerik Kendo UI controls and .Net in general and this helps them to quickly deliver the solution based on this technology.

Verdict

AI Software's new application enables Autolnergy users to quickly approve and transfer the drawings to the suppliers. The users were able to approve 100 drawings a month on average with the manual process and in the first two weeks of new applications they have already approved 105 drawings. This means the efficiency doubled in first 2 weeks only.

Results

By using AIS' home grown development methodologies and Telerik Kendo UI tools, our team quickly built an application that doubled the process efficiency within first 2 weeks. Client is expecting to save 1500 Hours of work per year compared to earlier manual process.



“ We worked with AI Software to develop a custom software application that would be used to approve 2D engineering prints and transfer these approved drawings to our suppliers for production use. The utility is now released for our engineering community to utilize. The feedback has been extremely positive with regards to the ease of use of the application and how much faster they can complete their 2D Drawing approvals and transfers. With this new application, we anticipate a projected efficiency improvement of 1500 hrs/year as compared to our previous manual process for approving 2D Drawings. AI Software helped us to achieve these goals with their responsive support team and by developing a user friendly application.

- Jeremy L.

Product Development Manager , Plastic-Omnium