



INDUSTRY

Engineering and Manufacturing

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ABOUT THE CLIENT

Established way back in the year 1991, DEC is an electronics manufacturing company, which serves customers operating in Defense, Aerospace, Medical, Telecommunication and commercial industries. The portfolio of electronic equipment manufactures ranges from high mix prototype to low volume production ones. DEC has a highly personalized work ethic that has a major contribution towards building as well as maintaining the company's relationship with its consumers.

DEC has been a continuously growing enterprise as they not only keep up with emerging market trends, but also adapt and align their systems with advancing technology, accordingly. Their service offerings include providing varied forms of printed circuit boards, electromechanical assembly, BGA re-balling and Quick Turn electronic assembly.

GOALS

DEC Assembly had been in business for more than two decades to their clients operating in industrial sectors that require high-precision electronic elements. They had approached us with a specific set of goals and requirements. What they wanted us to do was redesign as well as redevelop their website, in sync with current market trends, to better accommodate their products and services. The client also wanted us to give the website a more lean and streamlined display appearance.

This project involved achieving the below-mentioned goals:

- ✓ Redesigning the interface and controls of the existing website
- ✓ Streamlining the information being displayed on the site
- ✓ Restructuring the layout structure for specific end users
- ✓ Flexible system architecture for displaying current and relevant information

CHALLENGES

The existing DEC-Assembly website required some detailed analyzes to better formulate a system redesign strategy; the client had a set timeline for the completion of this project. We encountered a few challenges while going to the existing website and client requirements that are listed below.



- ✔ Scattered content and information on the website required us to develop a completely new website
- ✔ Image and content layout on the website required the development team to focus on uploading custom image types and texts
- ✔ Optimizing content along with images, so as to enhance searchability of the website on search engines
- ✔ Image sizes had to be optimized for improving website image load times
- ✔ Implementing an interactive map for location services

SOLUTIONS

The team of developers at Clavax utilized the functionality and features provided by Kentico to build a website that could effectively fulfill all the client's requirements. We came up with the following solutions with respect to the challenges identified above:

- ✔ We developed a clean design with minimal elements so that the highlight fell on products and services offered by the company.

- ✔ The redeveloped website has been optimized for an effortless view across all devices, with multiple display dimensions and screen resolutions. Making the website responsive eliminated the need to develop a separate website for mobile devices, which in turn ensured that only the standard version is being accessed from all compatible devices.
- ✔ An interactive map was implemented onto the website to enable consumers and prospects to efficiently look up the address of the company.
- ✔ All content and information related to the company were structured to highlight their consumer products and services.
- ✔ Images were scaled to enhance load time and functionality on the website.

● RESULTS

The redesigned DEC-Assembly website has been optimized to provide an optimal viewing experience across all devices, be it desktops, laptops or mobile devices. This Responsive web design utilizes fluid and proportion-based grids that enable the website to effectively adapt to the layout of the user's preferred viewing environment. The advancements in technology and increased mobility had prompted the DEC-Assembly developers to incorporate a design strategy that would effortlessly adapt itself to the layout environment of the device it is accessed from.

KEY CRITERIA FOR CHOOSING KENTICO

Kentico was selected as a CMS of choice for developing the website for DEC-Assembly owing to the following features:

- ✔ Kentico has a flexible code development platform, enabling developers to quickly adapt their client requirements into a successful result
- ✔ Websites can be developed and deployed – in much less time – using dozens of built-in modules for web development
- ✔ Content management is effortless with the Kentico CMS interface

● SOLUTION

It was a difficult task to not only collect such large amounts of data on an everyday basis, but also to implement an effective management strategy to forward the entire data onto the Ongage website. In light of the above mentioned challenges, the development team at Clavax decided to opt for Big Data to collect, store and forward the user data onto Ongage. To successfully achieve this task, the development team figured out the following solutions in response to the challenges that we faced:

✔ TRAFFIC MANAGEMENT

The 11000 hits that were encountered on a daily basis were managed using APIs and background jobs. Big Data technology was used to acquire, store and analyze the incoming data before it was exported to the Ongage website.

✔ CREATION OF TEST CASES

In order to implement Doctrine Migration, we created independent test cases that were designed to run scripts for collecting and storing the incoming user data from the website. These data were then stored on our servers before exporting them to Ongage.

✔ CREATION OF APIS

The development team at Clavax decided to create dynamic APIs to store data according to the different source of resources and leads used to collect it. This procedure was adopted to effortlessly store the data on Ongage that stored the accumulated data based on their source of origin.

✔ DATA STORAGE AND ENHANCED PERFORMANCE

The slow response time of the website was compensated by storing the incoming user data on our servers, before they were exported to or posted on the Ongage website.

● RESULTS

The LeadGen project could be successfully handled and run with the use of Big Data technology, as it facilitates both users as well as organizations to effectively handle large amounts of incoming data. We could achieve the following results with Big Data:

- ✔ The 11000 hits that the LeadGen website encountered in a day are now effectively collected, stored and managed on our servers, before they get exported to the Ongage website.
- ✔ With the application of Big Data, we are able to effortlessly store and manage the large volume of incoming traffic.
- ✔ The response time of the website has increased significantly; data can now be uploaded within microseconds that in turn exponentially enhances the performance of the website.