RTV Noord-Holland and Codex Software: developing an advanced search toolkit

About

Codex Software provided several software components for RTV Noord-Holland, an Amsterdam-based radio and television news broadcasting station covering the North Holland region of the Netherlands since 1989. The solutions included in-built tools and modules for RTVNH.NL – the official website of the broadcaster, and the video router management software.

The Challenge

The Customer bespoke the development of a profound search & indexing toolkit for the official website of the regional TV- and radio broadcasting company RTV Noord-Holland, among a number of other tasks:

✓ Integration of Apache Solr – an enterprise search platform;
✓ Development of a full-text search and indexing tool;
✓ Redevelopment of several administration modules for the proprietary RTVNH.NL platform;
✓ Development of a video router management web interface.

To meet all the listed requirements, Codex Software dedicated a combined software engineering team that consisted of specialists with proven track-record of web-based search tools developed, and programmers experienced in establishing effective hardware-software interactions.
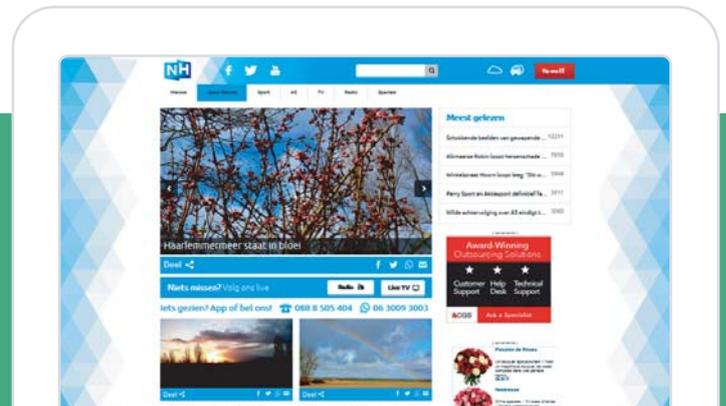
The Process

The work started with the development of the full-text search functionality, and integration of the Apache Solr – a designed-for-scalability enterprise search system. It allowed us to build a search tool with the rich range of features – faceted and distributed search, dynamic clustering, real-time indexing and profound database integration capacities.

To fulfil the redevelopment of the modules, we relied heavily on Zend Framework. Using one of the most popular PHP-based frameworks saved us much time and effort in the course due to its famed MVC adoption, minimal interdependencies between components and sophisticated use-at-will architecture.

Zend also provided good compatibility with pure PHP5. This well-proven technology was chosen for the development the video router control & management web interface. The reason was simple: the tool was heavily loaded due to the very nature of the Customer's day-to-day business activities as a regional broadcaster company, and required the best combination of stability and efficiency possible.

The Result

All software components were delivered to the Customer in time, on budget and to the full satisfaction, and the solutions were successfully released. Some of them are currently publicly operated and maintained on the RTVNH.NL website, and the other made an essential part of the broadcaster's inner software infrastructure.

For more information, please get in touch

P: +375-29-8724-928   E: contact@codex-soft.com