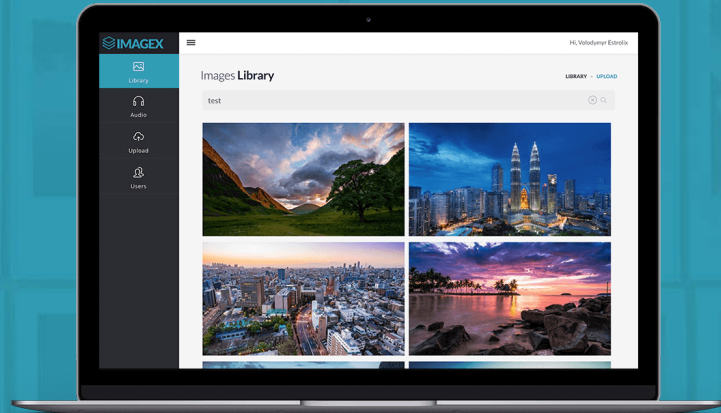# elitex

# Imagex

Web digital library that is clear and easy to use and manage

## About the **project**

Our client, one of the largest media corporations in Italy – **Il Sole 24 Ore** – owns and manages multiple websites. It was inconvenient for editors to search, manage and use different types of media content separately on each website when they manage multiple sites.

**ImageX** is a web digital library that is clear and easy to use and manage. With ImageX the user can keep images, videos, audio, and live streams in one place, even if they have multiple websites.

## The **challenge**

The customer required a system to store media files of all types, which at the same time could be easily and rapidly integrated with customers' websites or function autonomously.

Imagine you have an image that could be used by editors on multiple sites, in multiple designs, and seen on various devices – from mobiles to large desktop monitors. How and where would you store it properly so that it could meet all those needs? Our engineers found a solution.

## The **solution**

# IMAGEX

## Industry

Media

## Technology

NodeJS, Sails.js, MongoDB, AngularJS, Twitter Bootstrap, HTML5, CSS3, AWS

## Services

Full cycle web development

Front-end development

Back-end development

Project management

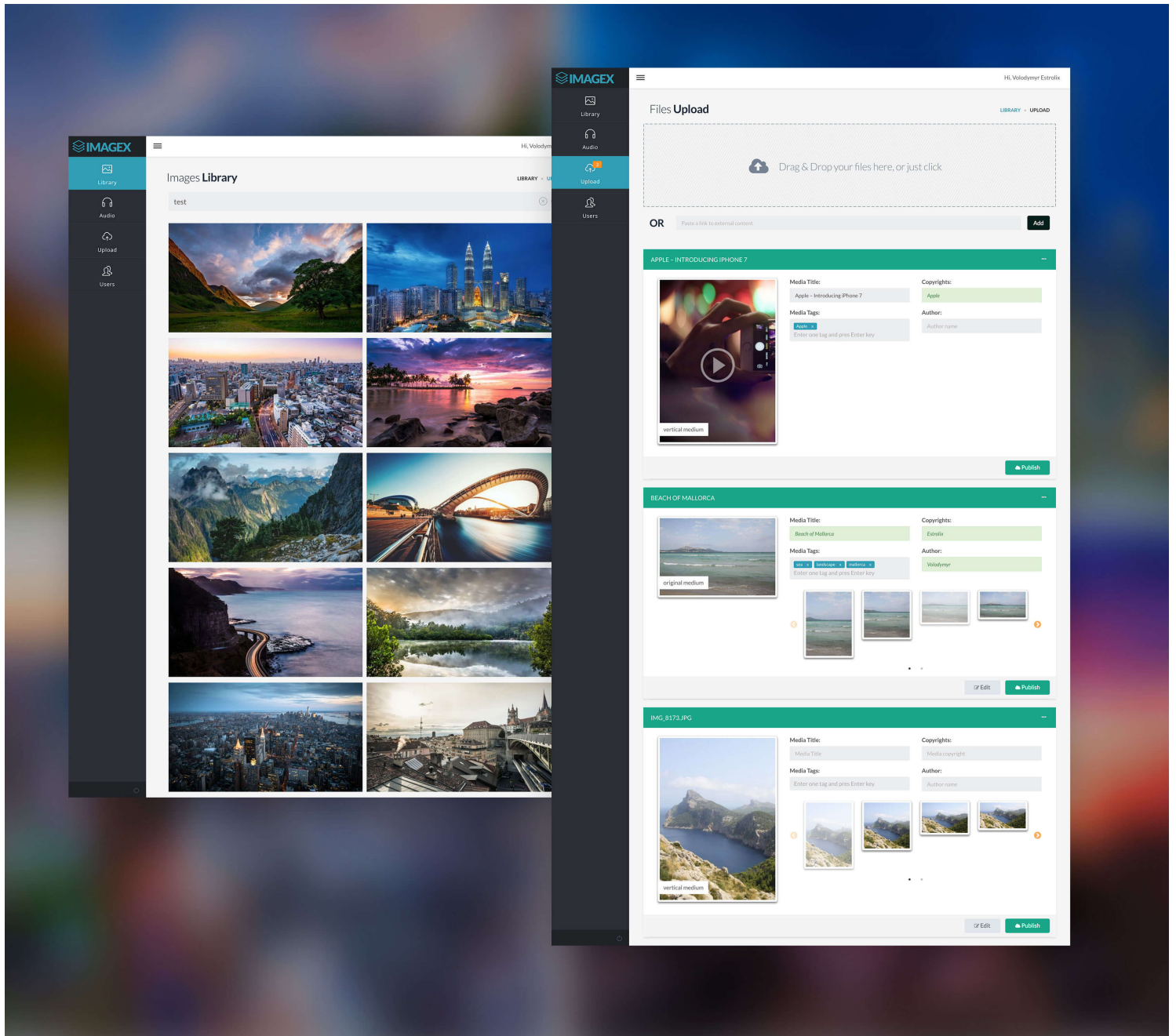Technical consultancy

## Customer's Location

🇺🇸 NY, United States/Italy

Together with Il Sole 24 Ore, we agreed to build an R&D team of highly skilled front-end, back-end and quality assurance engineers that would work under the project manager's supervision.

As the system had to be swift and reliable our engineers advised using the following technologies:

- Node.js
- Express
- MongoDB
- Elasticsearch



This also ensured the web service architecture's requirements were met and made the system scalable, maintainable, and cost-effective.

**How can you use one image on multiple sites, in multiple designs and dimensions?** We created a solution.

1. The system automatically crops and resizes the image to multiple versions and uploads them to the content delivery network.

2. Editors choose the image and select the required aspect ratio (horizontal, vertical, square, etc.)

3. ImageX does all the rest automatically, providing the right version of the image based on the size of the user's screen.

**Pier Paolo Bozzano**
Head of Software Development | America24

" From concept to final product, ELITEX has been a precious resource for our company and the mind behind our content management system. It is not all about the great knowledge in web programming, ELITEX guys take their role further. They offer their ideas and perspective and contribute in making things that were not there before, which is the true. "

We also developed more awesome features:

- User is not required to tag the image when uploading it (the system detects what is shown in the picture and sets the tags automatically)
- User can make any corrections manually (crop or tag)
- User can also work with video content (upload from computer or YouTube/Vimeo)
- We created a powerful search system. Users can easily find an image of a BMW that has tags "Germany" and "car", but doesn't have a tag "BMW".
- ImageX can be used as an autonomous system or integrated with third-party websites (using a JS plugin)

Thanks to a smart queue-based approach there is no need to wait until the upload process is finished and all the files are processed. The media content, ready for publishing to the library, will appear for review right in the upload page.

## The result

As a result, the ImageX system eliminates the issue of storing countless media files of different sizes and types. This new digital media library saves time and relieves the headache of editors and other users, making it possible to manage and share the files between different offices and access them from any corner of the world at any time.