Adopting technology to offer a wealth of information and support research.

HTC solutions enable a next-generation publishing platform for a prestigious 200-year-old institution.

Client

Headquartered in the US and globally located in all major continents our client has over 200-year history. Producing digital and print books, journals, and major reference works, our client publishes medical, technical, scientific journals, and test preparation catering to businesses, researchers, universities, and societies. Their 1.7 billion dollars a year business is comprised of three main streams –Knowledge & Learning, Research, and Talent Solution & Education Services.

Project/Service Category

AWS

Background

Our client has been serving everyone from students to professionals and all in between by delivering content solutions in new and innovative ways to enrich the learning experience. They wished to seek new paths in serving the research community by partnering with scientific societies and supporting researchers to communicate discoveries that make a difference. Intending to further this goal, they embarked on a journey to digitize centuries-old archives locked up in physical vaults. This required a robust and scalable Digital Archives platform that can grow with our customer's growing needs.

Challenges

Our client's current digital platforms, however sophisticated they may be, were not geared towards serving Digital Archives. A Digital Archive primarily comprises of manuscripts that require the ability to search partially recognized text and the ability to serve up a large volume of images. This led our client

to look for partners who can leverage the power of the cloud to deliver a large-scale scalable solution very rapidly.

The aim was to create a modern platform rapidly, that can cater to a global audience and can be independently managed without affecting the client's other lines of business.

Scope of the Project

In a first-of-its-kind initiative, our clients were looking to build an online product with scale, agility, and flexibility. Using AWS and AWS Service catalog they aimed to reduce time to market to specifically meet the requirements of their global base from digitization to distribution. HTC, with over two decades of experience, has a strong presence in the publishing space. Our client chose us as a partner due to the combination of our publishing domain expertise and our ability to deliver a scalable solution in the Cloud.

Solution

Believing that capitalizing on expertise from outside can lead to rapid success, our client decided to engage with HTC for assistance with the creation of this new platform.

By hosting and the complete management of the applications in AWS, we leveraged AWS services and delivered a Digital Archival platform to quickly deliver an MVP product within 6 months. The highly scalable, user-friendly, multi-lingual interface can handle millions of images and distribute content to a global customer base.

We also assisted in digitizing millions of images extracting text via OCR and manually adding accurate content metadata.

With the help of AWS cloud services, HTC helped our client to rapidly develop, deploy and realize new revenue channels.

Project Duration

HTC delivered an initial Minimal Viable product within 6 months and completed a feature-rich platform incrementally within the next 1.5 years. Our outstanding services have now made it an ongoing project as we continue to support and maintain this platform.

Technology

- AWS Services: EC2, ECS/ECR, S3, DynamoDB, Aurora RDS and Elasticache
- Other: SOLR, Netflix OSS, Java / Spring Cloud, Angular

Key Benefits Realized by the Client

They are now cloud-first in the true sense. Using AWS helps them support new ways of producing and distributing content. By releasing new archives faster and offering new digital publishing tools they can revolutionize the way scholarly research is published to stay ahead of the competition.

Leveraging several AWS technologies helped HTC reduce development time, improve scalability and quickly deploy the application across the globe.

3270 West Big Beaver Road | Troy, MI 48084

www.htcinc.com
www.caretech.com
www.ciber.com