HZD AWS Use Case: Document Translation

The Hessische Zentrale für Datenverarbeitung (HZD) is the central IT service provider for the Hessian state administration. The HZD has its headquarters in Wiesbaden and a branch office in Hünfeld. Its tasks include IT projects, procedures, procurement and awarding of IT, and IT communication services. It serves 135,000 users, including public authorities such as the police and the justice system, which require a particularly secure IT environment. Document translation enables rapid evaluation of foreign language documents by public authorities. tecRacer implemented the use case using Amazon Textract and Amazon Translate.

Foreign language documents: Amazon Translate helps

When advising authorities such as the tax office, a citizens' bureau or even the foreigners' office, foreign-language certificates and documents can pose a problem for the clerks: It is not recognisable whether it is a certificate, an official document or maybe even just a cooking recipe. An IT communication service can help. The clerk scans the document or photographs it with his smartphone and uploads it to a website. He immediately receives a German document translation via Amazon Translate for an initial assessment. After that, it can be sent directly to his printer, printed, or saved as a PDF. After all, there is still little restriction that the letters must be in Latin.

Implementation partner tecRacer knows its way around the construction kit

Implementing this translation service requires the compilation of the most suitable AWS services. The services can be configured at AWS via a graphical web interface. In addition, everything can also be programmed, which shows its strengths, especially in the interaction of the services. Self-service is the particular strength of AWS. However, losing track of the various Amazon Web Services available is easy. An experienced implementation partner like tecRacer enables the customer to select the optimal services from the large selection of AWS services, put them together according to the modular principle and establish individualised standard modules.

For HDZs document translation, tecRacer used Amazon Textract, which automatically extracts text and data from scanned documents. In addition to OCR, Textract identifies the content of fields in forms and information in tables. Amazon Translate neural machine translation service delivers fast, high-quality and affordable translations. In addition, deep Learning models enable more accurate and natural-sounding translations.

Outlook for additional use cases

Since its inception, AWS has continuously developed innovative ideas that define cloud computing. New products are delivered to customers as quickly as possible and are continually improved based on customer feedback. Thanks to cloud computing, all AWS customers automatically benefit. For example, Amazon Textract will be able to process documents automatically with Arabic or Chinese characters in the future. Thanks to the AWS AI modules, further value-added services can be implemented quickly and cost-effectively.

Artificial intelligence (AI) is the field of computer science that deals with the acquisition of cognitive abilities that are usually assigned to human intelligence. These include learning, problem-solving and pattern recognition. Employing AI, the authenticity of documents or certificates can thus be checked automatically and in real time. If unique features, such as signatures under a certificate - which always differ in nuances - are recognised simultaneously in several documents, these certificates are undoubtedly forged.

When deciding which AWS building blocks are best suited and how they can be seamlessly integrated into existing business processes, one should rely on experienced consultants like tecRacer. From numerous successfully implemented projects, they know exactly what it takes to turn any AWS project into a successful AWS project - and, depending on the complexity, in a matter of days rather than months.

CUSTOMER: HESSISCHE ZENTRALE FÜR DATENVERARBEITUNG (HZD)

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„tecRacer is a very competent service provider and a partner that helps us solve our challenges and implement our services."

Project goals
- Document translation
- Support for official procedures

Project performance tecRacer
- Amazon Textract
- Amazon Translate

About tecRacer

tecRacer, headquartered in Hanover and with locations in Duisburg, Frankfurt, Hamburg, Mannheim, Munich, Vienna, Lucerne, Geneva and Lisbon, offers Amazon Web Services Consulting (AWS) & Training Services from a single source - seamlessly integrated, across the entire cloud lifecycle - from strategy to implementation to operation.

The strategy also remains the clear focus on Amazon Web Services. Here, according to an independent study by Crisp Research, tecRacer is probably the most competent and important partner in Germany. And the focus on AWS proves tecRacer right: As part of the AWS Partner Summit 2021, tecRacer received the „AWS Consulting Partner of the Year" award. The owner-managed company, which was awarded as a Top Employer for medium-sized companies, now employs more than 150 permanent staff, has trained more than 12,000 participants in AWS and has already successfully implemented more than 250 AWS Consulting projects.

For more information, visit www.tecracer.com. Or contact us at aws-sales@tecracer.com.

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