



# Serverless Computing

## Mobile Practice Case Study

### About Mobile Practice



Learning performance app that provides more opportunities for people to practice, share, and coach each other for personal and team performance. Mobile Practice can be integrated with existing LMS and CRM systems. Among the main achievements, there is an offline mode, multi-language support for quick international deployments, reach data metrics, and web/mobile modes.

<https://mobilepractice.io/en/>

#### THE CHALLENGE

The main challenge was to develop highly scalable video education SaaS platform for Fortune 5000 companies which has a low latency video streaming in EU and US regions combined with Serverless approach for video transcoding. Another challenge was to convince the client to use AWS Lambda with another set of other AWS services due to potential vendor lock. Also, there was a challenge to set up a video recording in the IE which is being solved right now.

#### THE SOLUTION

We proposed AWS platform with Serverless approach for video transcoding and API by implementing AWS transcoder, Lambda, S3, API Gateway, CloudFront, DynamoDB, and Firebase, MongoDB, Senry. We applied the serverless framework for deployment and CloudWatch for monitoring of Lambda functions. This technical approach allowed us to build a highly-scalable product for big clients of Mobile Practice with low latency streaming in the EU and US.

#### THE BENEFITS

##### LAMBDA FUNCTIONS

We use 5 Lambda functions for video/image processing, backend API, video transcoding on events from Amazon S3.

##### ADVANCED INTEGRATION

Integration with existing LMS and CRM systems which can provide greater cross analysis and deeper analytics.

##### SCALING AND SECURITY

We built an auto-scalable, faultless architecture that can work under any conditions and load.

#### ABOUT TECHMAGIC AND AWS

TechMagic is a software development company, based in Lviv, Ukraine, with a narrow technology focus that helps startups and established enterprises to build remote dedicated teams.

AWS serverless application services enable users to build and run highly available, scalable, and cost efficient enterprise-grade applications without having to provision, manage, or patch servers.

#### NEXT STEPS

To learn more about how AWS and TechMagic can help your business, please visit [www.techmagic.co](http://www.techmagic.co)