

Resolve the Performance

and accessibility issues of an advanced ultrasound center's mobile application responsible for prenatal and baby-related imagery.

Summary

We achieved the objectives through a defined approach. Our team broke down the task into fragments and put the pieces together to make the app better.

Industry

Healthcare

Users

Expectant parents

Technologies

- WOWZA 4.*
- Drupal
- Kaltura 2.0
- Mysql 5.7
- Axway Titanium 7.5 GA

Team Members

Developers:

Backend (2), Frontend (1)

Challenges

We had to deal with the below challenges to improve the app's performance and accessibility:

- Unusual dysfunctioning of the app
- Inadequate handling of videos
- Increasing backlogs
- Slow video uploading

Solution

Our development team took a step-by-step approach to resolve the issues. They are as follows:

- Revisited every architectural component and changed the implementations of uploading a file.
- Used the triggering functionality of AWS S3 to trigger the Lambda function for uploading the video to Kaltura and make the process fast and reliable.
- Stored metadata in Dynamo DB to improve the performance in AWS Lambda.

Our team made the following improvements for the better performance of the app:

- Fast, efficient, and reliable uploading of videos
- Autoscaling to support the rate of incoming requests
- Consistency and efficiency of performances as the frequency of events increases
- Efficient deployment and configuration of instances

Result

Our efforts resonated with the client's requirements and facilitated better accessibility and performance of the application. The end-users can now easily upload images or videos and access them anytime, anywhere. We also succeeded in improving the app's scalability to accommodate a larger audience.