

# Tutr Education Case Study

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I was approached by two governmental institutions: Kharkiv Employment Center and Kharkiv Psychological Aid Center with the request to develop an application offering the opportunity to create educational courses and share them with others as well as communicate with students.

Although the target groups were different for both organizations the premise was to create an educational application such as udemy or pluralsight where Aid Center could upload and store video courses, communicate with students, conduct testing and webinars while Employment Center put significant focus on the ability to hold video conferences and webinars for applicants.

As a result, I developed tutr.education — single platform to fulfill the needs of both clients.

## Problem

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The Kharkiv Employment Center and the Kharkiv Psychological Aid Center are state organizations with a limited budget affecting not only development process but the costs of maintaining the infrastructure as well.

Also, the Employment Center had a tight time frame — a month to find out all the requirements and develop the application.

## Solution

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It was decided to develop a serverless application so that the main logic was transferred to the client application. In such a way this approach allowed to reduce the cost of hosting the server.

As a ui-framework basis Twitter Bootstrap was chosen. With custom readjustments it allowed us to fulfill clients need sufficiently.

To be able to conduct webinars I chose WebRTC which allows the media stream to be peer-to-peer.

## Methodology

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We used scrum - periodically contacted the clients, gave them an account of what was happening, shared the results of the project and made the necessary adjustments based on the feedback.

## Project Scope

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- Analysis.
- Customer Portal.
- Admin Portal.
- QA / Customer Feedback Assessment.

- Deployment & Monitoring.
- Peer to Peer Video Chat.

## Resources

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- Markup Developer
- QA
- Full-Stack Developer

## Tools and Technologies

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- AWS EC2
- AWS DynamoDB
- AWS S3
- AWS Elastic Transcoder
- AWS Cognito
- AWS Lambda
- VueJS
- Twitter Bootstrap
- WebRTC