



# How OPTI developed an online education platform for photography classes

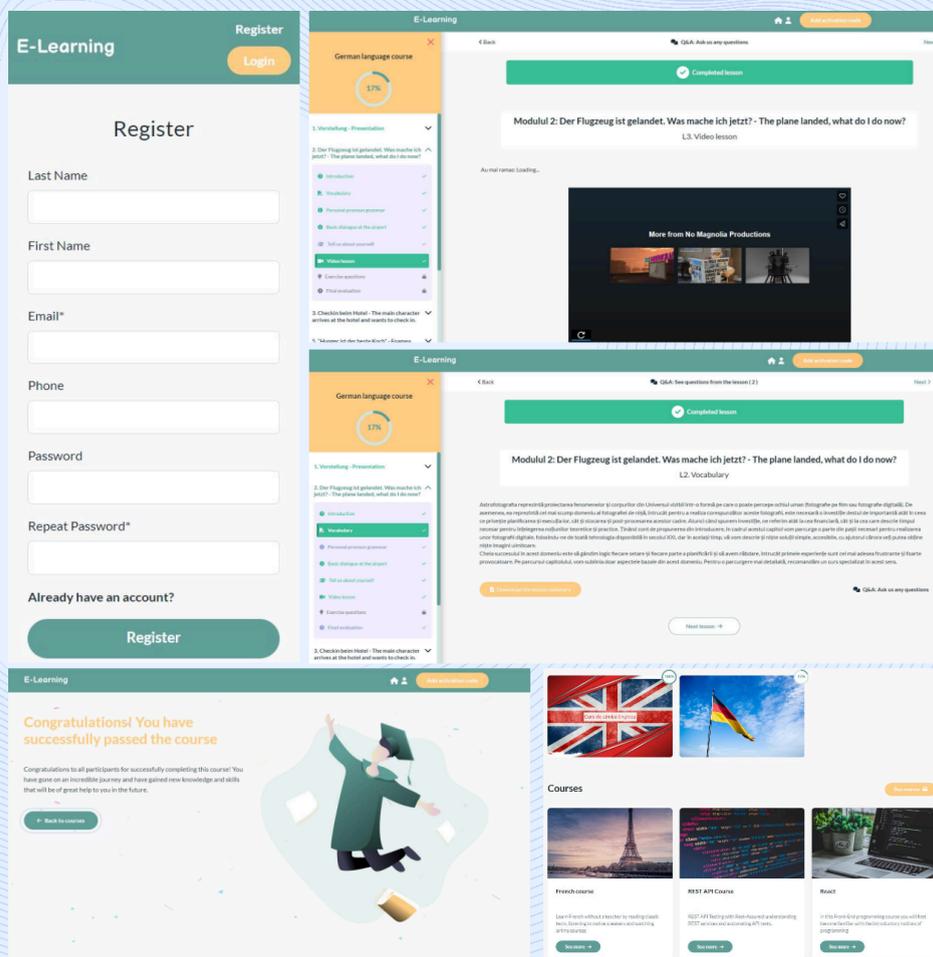
## CASE STUDY

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**Industry:** Learning Tech  
**Client:** Creative E-learning  
**Year:** 2023

In 2023, OPTI was tasked with developing an online platform specifically for photography classes.

The project involved addressing the unique challenge of implementing intelligent video recording for student assignments and integrating video lessons into the platform.





## CHALLENGES

Before the platform was developed, several significant challenges were met.



**The platform needed a system to manage and store large volumes of student assignment files**, such as high-resolution images and videos.



**There was a need for an engaging learning experience** that would keep students motivated while ensuring a high quality of teaching.



**The platform required integration with cloud storage services**, such as Google Drive.



**In addition to incorporating pre-recorded video lessons**, there was a need for a functionality that allowed students to be recorded continuously (to meet course certification requirements).

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## SOLUTION

OPTI implemented a two-step development process to address the technical challenges.

### STEP 1: STORING ASSIGNMENT FILES

- ✓ **An automated system was developed for the secure storage** of assignment files and user-uploaded images.  
**Client -> Server -> Google Drive.**
- ✓ **Students were given the ability to access their uploaded files** using Google Drive. This functionality allowed students to manage and retrieve their files.

### STEP 2: INTERACTIVE VIDEO LESSONS

- ✓ **A measure was implemented to protect content** from being downloaded or accessed without authorization, ensuring secure video viewing.
- ✓ **An optional watermark feature was added**, allowing a unique watermark to be applied to each user's video content.
- ✓ **Students were required to grant camera access** before the video lesson could begin.



## RESULTS

The online platform was successfully launched in June 2023, and by 2024, OPTI continues to support and maintain the solution. The platform delivered several key outcomes.



### Interactive video lessons

The platform allowed students to actively participate through user recordings, which were used to enhance the learning process.



### Evaluation lessons

The platform incorporated interactive quizzes and engaging assignments, allowing for creative assessment methods.



### Q&A section

A dedicated Q&A section motivates learners to engage, fostering a collaborative learning community.



### Google drive integration

The integration with Google Drive tackled both the learning experience and storage management effectively.



### Final exam integration

The platform integrated multi-user final exams using Zoom, providing a user-friendly examination experience.



### Visual sidebar

The color-coded chapters and lessons in the sidebar makes it easy for students to track their progress.



### **Online courses**

The main homepage displays the progress of ongoing courses for each logged-in user, with the most recently started course featured prominently. The platform categorizes courses to distinguish between different types of offerings.



### **Quality**

The platform underwent two rounds of testing, simulating a minimum user load of 200 individuals in each test. The insights gathered were reincorporated into the development process, enabling continuous refinement and optimization.

## **TECHNOLOGIES**



Google drive API, PHP, JavaScript and HTML5, ReactJS, Zoom API, MySQL

### **TESTIMONIAL**

*"The most impressive aspect of OPTI is the internal workflow and excellent management of their team."*

- Ștefan Toma, CEO Creative E-learning

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# OPTI

## PRODUCT DEVELOPMENT, AUTOMATION AND DATA MIGRATION

Software company developing products and cutting costs by automations and data migrations. Founded in 2005, with extensive expertise in retail, medical, publishing, and gaming industries.

The OPTI team includes senior analysts and programmers, is ISO 9001 and ISO 27001 certified, HubSpot Solution Partner, Google Cloud Partner and certified in other technological stacks.

## CERTIFICATIONS



## KNOW-HOW

