



Developing Online Education

Case Study



Overview

Industry: Technology

Location: Bucharest, Romania

Output: E-Learning Platform

Date: 2023



About OPTI

✓ Over 15 years of excellence

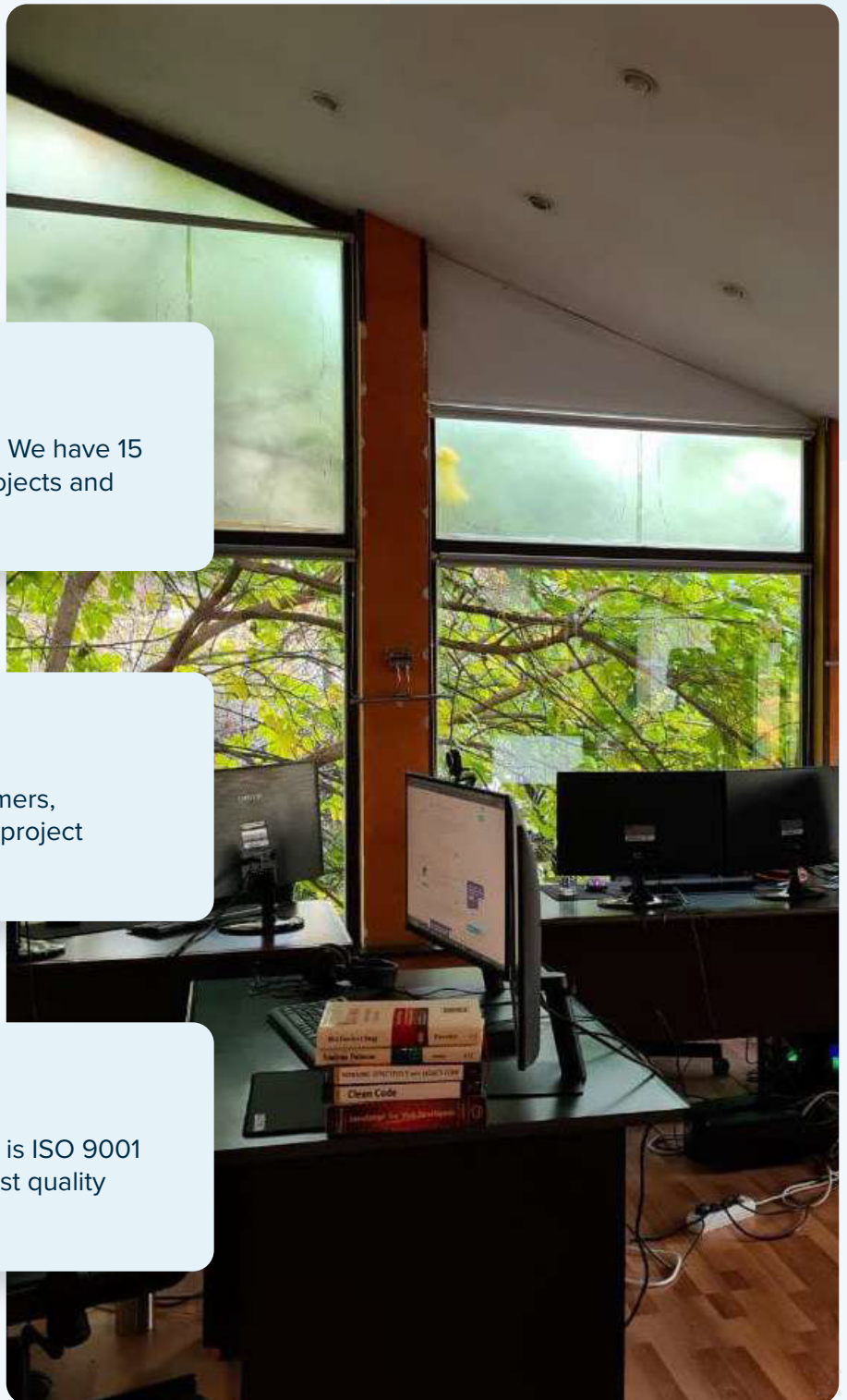
OPTI Systems was founded in 2005. We have 15 years of experience, hundreds of projects and satisfied clients.

✓ Team of specialists

Our team include analysts, programmers, database and server administrators, project managers and QA engineers.

✓ Based in Bucharest, Romania

Romania is a renowned IT hub. OPTI is ISO 9001 certified and competes for the highest quality standards.



We do software focused on



Digital Transformation



Medical



Educational



Gaming



Challenge

The first challenge was building an online learning platform with a focus on photography classes and a focus on intelligent storage management for student assignment files posed the first obstacle. Providing a smooth learning experience and orchestrating an intelligent storage architecture are two important aspects of this task. The platform must integrate with well-liked cloud storage services like Google Drive to

The next challenge was the integration of video classes into our online learning platform. With the explicit approval of the user, each video course will also have the special feature of user recordings in addition to its insightful content. This exciting feature seeks to improve learning and offer helpful resources for subsequent study.



Solution

Storing the assignment files

- ✓ The following automatic data flow was used for storing the assignment files and user-submitted images for course participation: **Client -> Server -> Google Drive**
- ✓ Support for reverse access: Users can access their uploaded files at any time using Google Drive's server and browser client, and these photos will follow the client's set naming scheme

Empowering interactive video lessons

- ✓ The platform provides a discreet and secure video viewing experience for students, deliberately omitting any cues or functionalities hinting at download or unauthorized access.
- ✓ An optional feature includes the application of a unique watermark per user, adding an extra layer of identity to the videos.
- ✓ At the lesson's outset, camera access is requested, and the video lesson will commence only upon granting permission



Results

Interactive video lessons

In interactive video lessons, students become active participants in the learning process by using user recordings, rather than remaining simply observers.

Online Courses

The main homepage of the platform displays the progress of the ongoing courses for the logged-in user, having the recently started course shown in the header. Categorize the courses effortlessly, distinguishing between different types of courses that you have to offer.

Course Sidebar

Dive into each course through a user-friendly dashboard featuring a convenient left-side menu that lists all the chapters. The chapters and lessons are color-coded, making it effortless to track your progress.

Q&A Section

Empower your learners to engage and interact, fostering a collaborative learning community.

Google Drive integration

Tackle both the learning experience and storage management aspects effectively with a seamlessly integrated automatic data flow with Google Drive

Final Exam

Seamlessly integration of multi-user final exams into the platform, leveraging the power of Zoom to provide a robust and user-friendly examination experience.

Evaluation Lessons

Elevate the learning experience by incorporating interactive quizzes or engaging assignments - the possibilities are limitless. Fuel your creativity and let us bring your unique assessment ideas to life.

Quality Assurance

Conducting two rounds of comprehensive and rigorous testing, with the simulation of a minimum user load of 200 individuals in each test, will result in a more efficient and reliable learning platform. The insights and results gathered will be reincorporated into the development stage, enabling continuous refinement and optimization.

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