Proge Learning Insights
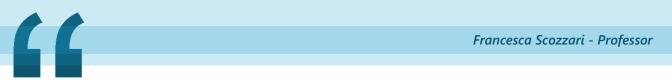The solution for the monitoring of distance learning

> **University of Chieti – "G. d'Annunzio"**
> **Education**

Italy

> *"By relying on a specialized partner, such as Proge-Software, we have achieved the goal of having a complete and flexible IT platform that is always technologically updated and managed with high levels of quality and security"*

Francesca Scozzari - Professor

Benefit	The ideal tool to support distance learning
Author of the benefit	Proge-Software and the technologies made available by Microsoft Azure Cloud
Optimization (save money)	Digital
Microsoft reference	Cristian Mezzetti
Partner	Proge-Software S.r.l.
Scenario	University of Chieti, found itself having to implement Distance Learning in a very short time.
Business need	Having an easy-to-consult dashboard that could analyze the efficiency of distance learning.
Product	Power BI, Microsoft Azure, Azure SQL Database, Azure Functions, Microsoft Graph API, Docker, Visual Studio 2019, Microsoft Teams

SUMMARY

Proge Learning Insights is Proge-Software's solution designed to meet the University of Chieti's need to have a technological platform available to analyze the efficiency of distance learning by verifying the lessons held, the attendance frequency, the teachers involved and the lesson duration.

BACKGROUND

The "Gabriele d'Annunzio" University, abbreviated with the initials Ud'A, is an Italian state university, having its registered office in the city of Chieti and operating in the offices of Chieti and Pescara; the university is named thanks to the Abruzzese writer Gabriele D'Annunzio. To maintain the high standards of training, the technology managers have decided to use the Microsoft Teams platform as a collaboration tool to allow lessons to be continued through distance learning.

THE CHALLENGE

With the problems related to the Covid-19 pandemic, the University had to face many organizational pitfalls related to distance learning, but thanks to the use of Microsoft Teams it was possible to better organize the university meetings and courses held by the teachers. The Teams platform, however, does not allow for reporting of data relating to calls made after more than 30 days or the ability to analyze teaching activities to evaluate the efficiency of the lessons held.

APPROACH

Proge-Software, thanks to the technologies made available by Microsoft Cloud, has created an architecture capable of storing such data and saving them within an Azure SQL Database. In this way, through direct integration with the Power BI Pro product, it was possible to create advanced reports that are easy to consult.

EXPECTED RESULTS

Proge Learning Insights allows the University of Chieti to historicize and monitor the progress of remote lessons on a daily basis. Through the advanced analytics Power BI dashboard it is possible to analyze information from Teams meetings integrated with those relating to study paths (teachers, lectures, etc.).

OBSTACLES AND PROBLEMS

Given the innovative nature of the project, the initial requirements were not very detailed and were defined and refined during development. There was a continuous dialogue between Proge-Software and the University to better define the KPIs to be monitored. In a short time, it was necessary to define an architecture and a development method that could be completely scalable and modular to meet the continuous needs of stakeholders.

ACTUAL RESULTS

Thanks to a project management methodology based on DevOps, ASP.NET Core technology and services made available by Azure, Proge-Software was able to create the IT platform on schedule, also offering some additional features such as integration of information from Teams meetings with information relating to study paths (teachers, lessons, academic year, etc.)

BENEFITS AND ADVANTAGES

The University of Chieti has achieved the goal of having a complete, flexible IT platform that is always technologically updated and managed with high levels of quality and safety, which has allowed constant monitoring of distance learning in order to maintain a high qualitative level and the satisfaction of students and teachers.

LEARNING AND KEY POINTS

Scalability of Microsoft Technologies and ease of integration with University services.

The customer authorizes Proge-Software to use this reference for marketing purposes.