

Proge Learning Insights

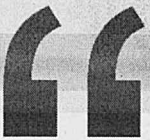
The solution for the study of the phenomenon of distance learning

- > University of Bologna – Alma Mater Studiorum
- > 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"



Rebecca Micheletti - Head of Technologies for Educational Innovation

Benefit	The ideal tool to support DAD trend analysis
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 Bologna Alma Mater Studiorum, one of the most important realities in the Italian academic world, found itself having to implement Distance Learning in a very short time.
Business need	Having an easy-to-consult dashboard that could analyze the phenomenon of distance learning at a purely statistical level.
Product	Power BI, Microsoft Azure, Azure SQL Database, Azure Functions, Microsoft Graph API, Docker, Visual Studio 2019, Microsoft Teams



SUMMARY

(Brief description of the project)

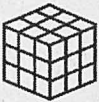
Proge Learning Insights is Proge-Software's solution designed to meet the needs of the University of Bologna to have a technological platform available to analyze, through aggregate trends, the phenomenon of distance learning.



BACKGROUND

(Context information)

The University of Bologna, recently renamed Alma Mater Studiorum - University of Bologna, is the oldest university in Europe and one of the most prestigious and popular in Italy. The particular structure of the university, called "multicampus", includes five different locations: Bologna, Forli, Ravenna, Cesena and Rimini. The University of Bologna was also the first in Italy to have an office abroad, in Buenos Aires, which provides postgraduate courses dedicated to deepening all aspects of relations between Latin America and the European Union. 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

(The problem faced)

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 calls made after more than 30 days.



APPROACH

(A description of how the project tried to meet the challenge)

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

(Objectives of the project)

Proge Learning Insights allows the University of Bologna to historicize and monitor the progress of remote lessons on a daily basis through aggregated data on a purely statistical level. Through the advanced analytics Power BI dashboard it is possible to analyze, in aggregate form, information from Teams meetings.



OBSTACLES AND PROBLEMS

(The difficulties)

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

(Original or Additional Objectives)

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.



BENEFITS AND ADVANTAGES

(The actual benefits encountered by the company)

The University of Bologna 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 the study of the phenomenon 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.

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Rebecca Nebellett