

# Abstract En Español

El Proyecto APT desarrollado en la sede de San Bernardo tiene como objetivo crear una aplicación llamada "Duoc Maps", la cual facilitará la ubicación de las salas, puntos de interés, y diferentes servicios dentro de la institución. Este proyecto busca resolver el problema de desorientación que enfrentan los nuevos estudiantes así como visitantes, proporcionando una herramienta que les permita encontrar fácilmente sus destinos, reduciendo tiempos de espera además de mejorar la eficiencia operativa de la sede. El proyecto está alineado con competencias clave como el desarrollo de soluciones tecnológicas, la gestión de proyectos y la integración de plataformas. Se utilizará la metodología ágil SCRUM para gestionar el desarrollo, que incluirá tanto una aplicación web como una de escritorio, ambas integradas con sistemas de bases de datos así como también plataformas externas como Metareal y Firebase. Además, se pondrá énfasis en la seguridad, usabilidad y aseguramiento de la calidad del software.

# Abstract En Inglés

The APT Project developed at the San Bernardo campus aims to create an application called "Duoc Maps," which will facilitate the location of classrooms, points of interest, and various services within the institution. This project seeks to address the disorientation problem faced by new students and visitors by providing a tool that helps them easily find their destinations, reducing waiting times and improving the operational efficiency of the campus. The project aligns with key competencies such as the development of technological solutions, project management, and platform integration. The Agile SCRUM methodology will be used to manage the development, which will include both a web application and a desktop application, integrated with database systems as well as external platforms like Metareal and Firebase. Additionally, emphasis will be placed on security, usability, and software quality assurance.

# Conclusiones

## SEBASTIÁN GONZÁLEZ

The development of the Duoc Maps project will significantly improve campus navigation for students, staff, and visitors by providing a user-friendly tool that reduces confusion and wait times when locating classrooms and points of interest.

The project effectively integrates critical competencies from the academic curriculum, such as software development, project management, and data management, ensuring that students gain practical experience while addressing real-world challenges.

Utilizing the agile SCRUM methodology allows for a flexible and iterative approach to project management, enabling the team to adapt to changing requirements and ensuring that the final product meets the needs of its users.

The project not only provides an innovative solution for campus navigation but also incorporates advanced technologies such as.

## MIGUEL NAVARRETE

It helps improve the experience of students and visitors by reducing disorientation, while also promoting faster and more efficient integration within the campus, which can positively impact their satisfaction and productivity..

In an academic environment where sensitive information is handled, ensuring the protection of personal data is essential. Implementing strong security measures reinforces users' trust and ensures the correct handling of information.

Utilizing the agile SCRUM methodology allows for a flexible and iterative approach to project management, enabling the team to adapt to changing requirements and ensuring that the final product meets the needs of its users.

This project involves the integration of various platforms, encouraging the team to stay up to date with innovative technologies such as Metareal and Firebase. This flexibility not only increases the product's quality but also enhances the technical skills of the development team.

## NICOLÁS ZÚÑIGA

I feel that with this methodology, which is SCRUM, we will be able to efficiently carry out the work we have proposed in the various phases, both in terms of interactivity and modularity.

Additionally, since the project meets the initial specifications, we can execute it based on the established guidelines. I believe that with the proposed timeline for the activities, we will be able to execute them correctly and efficiently, thus allowing us to deliver an optimal and properly completed work for the stakeholders of the project.

## FELIPE CORNEJO

From my perspective, the APT Project at the campus is a truly innovative and useful solution for the educational community. Orientation issues on large campuses can be a significant obstacle for students and visitors, especially when they are in a new environment.

This project not only addresses this problem effectively by offering an intuitive tool for locating classrooms and services, but also demonstrates a modern and professional approach to technological development.

The choice of the Agile SCRUM methodology suggests that the team is committed to adaptability and continuous improvement, which is crucial for success in technology projects. Additionally, the integration with external platforms and the focus on security and usability highlight a commitment to providing a high-quality user experience.

# Reflexión

The Duoc Maps project offers a practical solution to a common challenge faced by new students and visitors on campus: navigating through an unfamiliar environment. By developing this application, the project team is not only addressing a real need but also applying theoretical knowledge gained throughout their studies in a tangible way. The project reflects the importance of integrating technology with daily tasks to streamline operations and enhance user experience.

Moreover, the use of agile methodologies like SCRUM highlights the value of iterative development and continuous feedback, allowing for a flexible and adaptable approach to solving problems. The emphasis on competencies such as teamwork, project management, and secure data handling ensures that the team is equipped to meet the professional demands of the tech industry. Ultimately, the Duoc Maps project demonstrates how technology can be leveraged to improve organizational efficiency while simultaneously fostering the development of essential skills for future professionals.