**Resumen**

Este proyecto tiene como objetivo el diseño e implementación de un sistema web para una futura pyme que busca ofrecer servicios de transporte de personal a otras empresas.

Actualmente nuestro cliente se desempeña como chofer para una empresa llamada *Transportes Juan Herrera* que presta esta clase de servicios, es decir, recoger a empleados de otras empresas en puntos definidos y horarios acordados y los lleva a sus lugares de trabajo, repitiendo el mismo proceso para el regreso.

Luego de varios años de servicio, nuestro cliente ha decidido armar su propia flota de vehículos y desempeñarse como independiente. Por lo tanto, nos ha solicitado la creación de un sistema web que pueda reemplazar los procesos manuales que involucran mantener un registro de vehículos, choferes, pasajeros y destinos, así como también, automatizar procesos involucrados con la optimización de rutas, cálculo de consumo de combustible por vehículo y seguimiento de éstos.

Para ello, el desarrollo de este proyecto se realizará utilizando metodología ágil, haciendo énfasis en el desarrollo de un software funcional de manera temprana, entregando valor al cliente por módulos que sean adaptables, flexibles y de mejora continua.

**Abstract (English)**

This Project aims to design and implement a web system for a future “*pyme”* that seeks to offer personnel transportation services to other companies.

Currently, our client works as a driver for a company called *Transportes Juan Herrera* that provides the same type of services, i.e., picking up employees from other companies at defined points and agreed times and taking them to their workplaces, repeating this same process for their return journey.

After several years of service, our client has decided to assemble his own fleet of vehicles and work as an independent contractor. Therefore, he has asked us for the creation of a web-based system that can replace the actual manual processes involved in keeping track of vehicles, drivers, passengers, and destinations, as well as automate processes involved in route optimization, fuel consumption calculation and tracking them.

To accomplish this goal, this project will be developed using agile methodologies, with an emphasis on the early development of functional software, delivering value to the client through modules that are adaptable, flexible, and continuously improved.

**Conclusion**

The project presented addresses a real need of an emerging small business dedicated to personnel transportation, which seeks to optimize and modernize its internal processes through a web-based system. The implementation of this solution will centralize key information about vehicles, drivers, passengers, and destinations, while also automating essential processes such as route optimization, fuel consumption calculation, and fleet tracking. By applying agile methodologies, the development ensures continuous adaptation to the client’s needs, guaranteeing flexibility and value in every stage of the project. Ultimately, this initiative not only improves operational management but also contributes to the competitiveness and sustainability of the company within the personnel transportation market.

**Reflection**

This project demonstrates how technology can serve as a driver of growth for small and medium-sized enterprises by helping them overcome the limitations of manual processes and remain competitive against larger companies. From an academic and professional perspective, it represents an opportunity to apply knowledge in software development, data management, and collaborative methodologies, generating experience closely aligned with real-world industry practices. Moreover, it highlights the importance of developing technological solutions with social and economic impact—solutions that not only solve immediate problems but also foster continuous improvement and innovation in the personnel transportation sector.