**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 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**

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.

**Conclusions**

My personal conclusions from this first stage of the project have helped me realize my strengths and weaknesses from my years of study at the institution. They have also helped me understand my professional preferences and how I see myself in the industry in a few years. While this moment marks the end of my time as a student, it is also the beginning of my career as a professional. And even though my time at Duoc has had its ups and downs, I am confident that I have the tools to keep improving and become a quality professional.

**Reflections**

The most difficult part during the development of Phase 1 of the thesis project has been the ability to efficiently manage the work team. Correctly setting the priorities and duration of each task, as well as distributing the activities to the right people, has been the most challenging part of the project's first phase. However, the workflow and the commitment that each member has shown has indicated our success as a group and motivates us to develop a project that meets our expectations.