Main Objective/Overview

The main goal of our parking management system is to solve the problems that vehicles have when parking on UEA campus, including traffic congestion, limited parking spaces, and time-consuming parking searches.

Our PMS steps in to solve these issues by sending drivers directly to available places and improving parking allocation. This not only saves time wasted looking for spots, but it also significantly reduces car emissions from traffic congestion caused by drivers looking for spots. Not only is this increase in efficiency convenient, but it also advances UEA’s environmental objective to be 80% of the way to net zero by 2030. The system takes a user-centred approach, giving administrators' and drivers' requirements and experiences top priority. The PMS provides admins with powerful tools to manage user accounts, keep an eye on parking availability, and easy text message communication, while drivers, on the other hand, benefit from a separate, intuitive GUI that simplifies registration, parking requests, payments, and automatic location assignments. Our PMS was created with scalability in mind, so it can grow with the UEA campus by allowing admins to add parking lots as the parking infrastructure increases. Through our system, we hope to drastically reduce the amount of time drivers spend looking for parking by at least 70% making parking not just more efficient, but also more equitable for all campus users.