

# 1. Introduction

## 1.1. PROBLEM STATEMENT

Currently, parking on campus can be tricky. Finding parking is always a trifling task because you have to consider if where you are parking is reserved for staff, if the lot you want to park in is entire, rerouting on campus needs to be clarified and can be embarrassing, and much more. This project aims to eliminate these issues by streamlining the parking experience. Our team will create a detection-based system to monitor parking spots and update an app that students, teachers, or whoever may need to park on campus and allow them to view and reserve available parking to eliminate confusion.

## 1.2. INTENDED USERS

The intended users for our project are students, faculty, and visitors on campus looking for parking spaces. Students often face the challenge of finding a parking spot before class starts. Although faculty have reserved lots, they still need help finding the most ideal space. Additionally, visitors to the campus who are attending events or meetings also need help finding parking spaces. By developing a detection-based system that will monitor parking spots and update an app, our project aims to address the parking issues these user groups face. This will allow them to view and reserve the most convenient and available parking spots, streamlining the campus parking experience and eliminating confusion.

# Appendix A

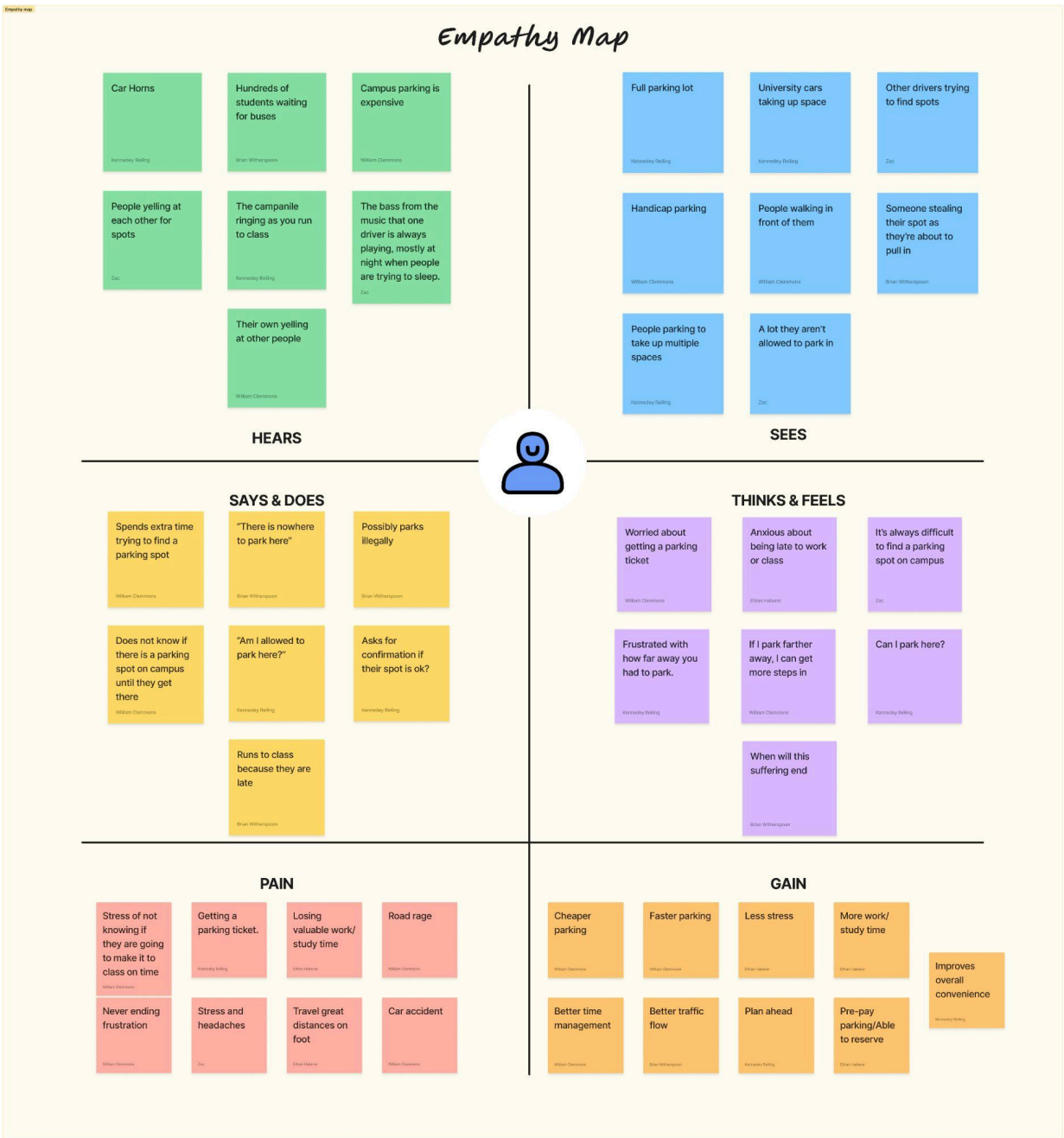


Figure 1 Empathy Map