

Abstract

Carpooling yields great benefits environmentally, socially, and economically for carpooling, however there is no easy to use, safe, and enjoyable application for people to connect with others who are both close in proximity and have schedules that match currently. By creating a database and visual mock ups, our senior project creates the basis for an application called Swerve that matches users by location and schedules and has social and economic incentives. Our research allowed us to further understand the social, environmental and economic benefits and incentives of carpooling. We also looked into current carpooling websites and applications and could not find a successful platform for carpooling that involves both matching and social profile components. Through surveys and interviews we confirmed our belief that there is a great student interest in a social carpooling application as well as gain an understanding of what users would want and need in the application. Based off of all of this knowledge we were able to build an Access database that matches drivers and passengers based off of location and schedules and a visual mock up of the application screens that show how the social matching would work.