



PROJECT SCOPE STATEMENT	
Project Name	EZParking
Project Deliverables	Detailed Description
Collect the destination	User
	Able to input the destination
	Program
	Store destination into the backend and use them to analyze the most appropriate parking lot.
	Interface
	There will be a drop-down menu where users can input their destination
Provide the optimal parking solution	User
	Input destination
	Program
	Use a backend database to calculate the optimal parking solution, and give the user a choice if they want to park in M, Z, or meter areas.
	Interface
	There will be some buttons that indicate different areas, and the destination and approximate time will display aside respectively.
Al detects vehicles that enter and exit parking areas	Program
	Based on YoloV5 object detection, the program can calculate the number of vehicle entering or exiting the parking lot, and the algorithm will also update these data to the backend.
Adding and editing waypoints	Admin
	Admins are able to add and edit waypoints to the map and define the parking area and the number of parking spots.





Backend

System will store the waypoints that are provided by the admins, and use google API to calculate the length of the edges.

Project Exclusions

Bike or motorcycle parking space recommendation

In our capstone project, we don't consider adding bikes and motorcycle parking spaces recommendations, at least at this time.