MIS 4596
Project Charter

Project Title	Parallel Parking Solutions	Product/Process Impacted	Parking
Start Date	1/25/2018	Organization/Department	Parallel Parking Solutions
Target Completion Date	4/24/2018	Champion	David Schuff

		Description		
1. Project Description		What problem is the team addressing? What problems do customers have? The problem we are addressing is the increasing difficulty for finding parking in major cities, for everyday commuters and busy times such as major holidays. To avoid being late to an appointment, drivers must leave early to account for the high possibility that they will have to spend time driving around looking for an open parking spot. If all open spots nearby on the street or in a parking lot are full, individuals will either have to park inconveniently far away from their destination or pay to park in an expensive garage. Meanwhile, there are many driveways in the area that are unused entirely or have room to fit additional cars.		
2. Project Scope		What areas are inside and/or outside the work of the team? What are the boundaries (start and end points)? What specific parts of the overall problem will you focus on? The team will work to construct a functioning prototype that facilitates ease of locating parking and more accessible parking in cities by allowing users to rent out parking spaces that they own. The scope of this project includes creating an interface that shows users all parking options in a given area including street parking, parking garages and lots, and available driveways that have been listed through the application. Our solution will provide the rates of each parking option along with an estimation of the likelihood of a spot being open depending on the time. Once a user has selected a parking spot, they will be directed from their location to the destination they have entered. The solution will provide a map of selected businesses near a user's destination including restaurants, coffee shops, and gas stations. Users will have the ability to rent spots from one another for a specified period of time. The interaction will begin with a user making an account and then making his/her parking spot available to rent for a given time period. Then another user looking for parking will have the option to rent the parking spot for as little or as long as he/she would like as long as it is within the given time frame specified by the owner of the parking spot. Once the parking spot is rented, the application will process a transaction between the two users. The renter will pay via the app, which will transfer the funds (after taking out a percentage for application usage fees) to the spot host. The app will give updates to both users through push notifications to ensure both are aware of when the parking time will expire. Once the parking time expires, the transaction ends.		

1. **Project Goal and Deliverables**	Metrics			Baseline	Current	Goal	
The team must deliver a functional prototype that alleviates the stress of finding parking, while also reducing the cost of parking. The metrics listed to the right will be used to benchmark the overall success of the project.							
	Reduce the time it takes a driver to find parking by 80%			17 hr/person/yr (US Cities)	-	3.5 hr/person/yr	
	Reduce the cost of average parking by 50%			$17.19/hr (Phila)	-	$8.60/hr	
	Increase the revenue gained from an available driveway by 100%			$0	$-		

4. Business Results Expected	The application will create a new resource that customers will be happy to pay for, which will increase our organization's bottom line.		
5. Team members	Who is this team accountable to? Who is your champion? Who is on this team? What are the specific skills/roles of each team member? Who can the team turn to for expert guidance? Gabrielle Finley Matt Funk Nicole Bilder Anthony D'Amico Alan Divver This team will be accountable to the project champion, Professor David Schuff. The team will be able to utilize the expertise of both the project champion and the project mentor, Michael Luckenbill.		
6. Support Required and risks	What additional resources does the team need? What obstacles does the team see, and how can they be resolved? An obstacle could be potential violation of the homeowner's association. The team has also recognized the risk of spot seekers remaining in spots past the allotted time. To reconcile this, the application will allow for disputes to be filed, so that we can assure any aggrieved party receives reimbursement.		
7. Customer Benefits	How will this project help the customer of the organization? Could improvements have a negative impact on the customer? Application users will be able to capture revenue on available space in their driveway and drivers in need of parking will be able to reserve a spot ahead of time or find nearby open spots when they arrive.		

8. Technology Architecture	 All members have, at minimum, basic capabilities using Just-In-Mind Prototyper.

9. Overall schedule/Work Breakdown Structure (Key milestones & dates)	Responsible individual	Output (notes, diagrams, interviews, screen prints)		Date started if in progress Or Expected completion date	Date completed or date completion is expected
Planning	Nicole Bilder, Anthony D'Amico, Gabrielle Finley, Matthew Funk, Alan Divver	Project Deck		1/25/2018 started	2/6/2018 Completed
Analysis	Gabrielle Finley, Matthew Funk	Budget		2/7/2018 started	2/15/2018 Completed
Design	Nicole Bilder, Gabrielle Finley Alan Divver	Process Model, Data Model, System, Architecture Diagram		2/16/2018 started	3/15/2018 Completed
Implementation: Construction	Nicole Bilder, Matthew Funk Anthony D'Amico	Prototype		3/16/2018 started	3/31/2018 Completed
Implementation: Testing	Nicole Bilder, Anthony D'Amico, Gabrielle Finley, Matthew Funk, Alan Divver				4/10/2018 in Progress
Installation	Nicole Bilder, Anthony D'Amico, Gabrielle Finley, Matthew Funk, Alan Divver				4/24/2018 Planned