

**ParkWise**  
*Park N' Go*

7/10/2020

Milestone I: Release & Iteration Planning

## **User Requirements, Features, Components**

For the first milestone, we plan on implementing the core functionalities of ParkWise. Since the project's lifetime is around four months, we will have many iterations to build small prototypes and work our way up to less important features and requirements. The major requirements that are present in our project are that a user will be able to create an account and login into their account and the second main requirement is that verified users are able to book/rent a parking place and if they are a verified host they can offer their parking location to other users. Since it is an Agile development, we want to focus on delivering small prototypes and building upon them in case the requirements change in future. For Milestone I our goal is to have a basic but yet attractive frontend, and a database schema alongside with an ER diagram. With the given timeframe we will be able to achieve this and this will set us up for the future iteration which will involve implementing other requirements. Lastly, we will be writing a formal contract used for customers and house owners which will contain code of ethics before anyone decides to use our service.

We will be implementing some features on ParkWise for our first Milestone. First, we will be adding a user interface for Google Maps. In this, users will be able to see the different places where they can park. This will not only give them an idea of different distances but will be visually appealing. Also, we will start to create a catalog where there is a list of cities under the search bar and when the user clicks on a city, it would open them to all the different listings. This is useful when users want to simply view all listings without entering an address. In the future milestones and iterations, we will also add a feature where we email customers, with their consent, about the new and cheap listings around their neighborhood. This would be more beneficial to students going to colleges and universities on a daily basis.

In terms of components, we will have the basis for the development. For programming languages, we will use JavaScript, HTML5, CSS3, Python. For frameworks, we plan on using React.js, node.js, Bootstrap.

## **Distribution of Work**

We will be distributing the work by assigning tasks based on each member's expertise. Using the team agreement as a reference, we have identified everyone's strengths. 2-3 members will be in charge of frontend and the rest will be involved with backend. Not to mention, members are expected to join in any tasks when needed. For the distribution, we will be using GitHub's project management tool where we keep track of the work assigned, deadlines, and time spent on a given task.

## **Excluding User Requirements, Features, Components**

There are many requirements that we decided to delay and exclude from our first release. The two main requirements that we are excluding for the first release are user authentication and the ability for users to rent or host a location for parking. Even though these two requirements are very crucial to our project, we best believe that it is best to hold off on them. The reason is that in order to have user authentication we would need to set up our backend and have our database ready. Before we make a database we believe it is best to create a schema and an ER diagram for the database that we will be implementing. If this is all done in time and if time permits we will be ahead of our schedule and work on the user authentication. But the second requirement will most definitely not be done since in order to do that we will need to have another database with a working google API for location to find which will take a lot of time. This will also allow us to create smaller prototypes and allow us to implement any new requirements or changes that need to be implemented. This will also help us follow the Agile Methodology and help us deliver quality to our customers.

In the future iterations, we will add features like advanced graphical user interface, reviews on listings, signing up or logging in by social media or other networks. We decided to delay this because this is not part of the core functionalities. We want to first focus on getting the basic website working and afterwards, we can implement such features on it.