Functional Requirements

FUN REQ #	Requirement Name	User Story
FUN-1	Home Page	As a user I will be able to access the website homepage so that I can access other pages.
FUN-2	Site Map	As a user I will be able to view the different parking locations so that I can park and find information about the parking location.
FUN-3	Create Account	As a user I will be able to create an account so I can manage my parking subscriptions/payments.
FUN-4	Search	As a user I will be able to search for parking facilities so that I can find parking in the specific location I need.
FUN-5	Filter Parking- Time	As a user I will be able to filter for monthly parking or hourly parking depending on my needs so that I can find appropriate parking.
FUN-6	Filter Parking- Price	As a user I will be able to filter parking by price to find parking I can afford.
FUN-7	Company Contact	As a user I will be able to contact the company to answer any of my questions or receive any of my feedback so that I can trust company.
FUN-8	Company Information	As a user I will be able to access the company's information so that I can make decisions about subscribing to service.
FUN-9	Manage Subscription	As a user I will be able to manage my monthly parking subscriptions so that I can continue, terminate, or alter my subscription.
FUN-10	Manage Payment	As a user I will be able to setup payment information on my account page to make payments simpler.
FUN-11	Pay Hourly	As a user I will be able to pay a one-time cost for hourly parking at an hourly parking location so that I can obtain parking.
FUN- 12	Add Location	As a site administrator I will be able to add new parking locations when they are acquired so users will have more options.
FUN-13	Delete Location	As a site administrator I will be able to delete old parking locations when they are no longer active so users can be updated about parking availability.
FUN-14	Update Parking	As a site administrator I will be able to update existing parking information (i.e. cost, availability, type) so users can be updated about parking availability.
FUN-15	Mobile	As a user I will be able to access the PARK Company website on my mobile device to make finding and paying for parking simpler.

FUN-16	Desktop	As a user I will be able to access the PARK Company website on my desktop computer to make finding and paying for parking simpler.
FUN-17	Tablet	As a user I will be able to access the PARK Company website on my tablet to make finding and paying for parking simpler.
FUN-18	Browser	As a user I will be able to access the PARK Company website via my preferred browser to make finding and paying for parking simpler.
FUN-19	Filter Parking- EV	As a user I will be able to filter parking by Electric Vehicle capable locations to find parking for my electric vehicle so that I can park and charge my vehicle in the parking location.
FUN-20	Filter Parking- Oversized	As a user I will be able to filter parking by oversized to find parking which can fit my oversized vehicle so I can park in the parking location.

Use Cases

UC-1:

Use Case UC-1: Explore Site

Related Requirements: FUN-1: Home Page, FUN-15: Mobile, FUN-16: Desktop, FUN-17: Tablet FUN-18: Browser

Initiating Actor: User

Actor's Goal: To successfully access the website.

Participating Actors: PARK Company

Preconditions: The user is connected to broadband internet and has access to web browser, mobile device or tablet or desktop, and keyboard and mouse depending on device's requirements.

Postconditions: The user is on the Home Page of the website.

Flow of Events for Main Success Scenario:

→ 1) User enters "parkingco.com" into address bar of their preferred browser on their preferred device.

← 2) Browser loads PARK Company website.

← 3) User has successfully landed on Home Page and can explore site.

UC-2:

Use Case UC-2: View Parking in Area

Related Requirements: FUN-2: Site Map, FUN-4: Search

Initiating Actor: User

Actor's Goal: To view all parking in a particular area.

Participating Actors: PARK Company

Preconditions: The user is on any page of the PARK Company website and connected to broadband internet.

Postconditions: The user is displayed all PARK Company parking locations in a particular area.

Flow of Events for Main Success Scenario:

→ 1) User navigates from any page on website to Find Parking page.

← 2) User is displayed a map of all PARK Company parking locations.

→ 3) User may use search bar find parking within a particular area or may manually navigate the map.

← 4) User is able to view all PARK Company parking in particular area.

UC-3:

Use Case UC-3: Filter Parking Preferences

Related Requirements: FUN-5: Filter Parking- Time, FUN-6: Filter Parking- Price, FUN- 19: Filter Parking-EV, FUN-20: Filter Parking- Oversized

Initiating Actor: User

Actor's Goal: To find PARK Company parking which meets user's time and price preferences.

Participating Actors: PARK Company

Preconditions: User is able to view all PARK Company parking in desired area.

Postconditions: The user can view all parking in a particular area filtered by their preferences.

Flow of Events for Main Success Scenario:

→ 1) User uses filter to display only the PARK Company parking locations which meet their time preference.

→ 2) User uses filter to display only the PARK Company parking locations which meet their price preference.

← 3) User is displayed only those PARK Company parking locations which are in their desired area and meet their price and time preferences.

UC-4:

Use Case UC-4: Access User Account

Related Requirements: FUN-9: Manage Subscription, FUN-10: Manage Payment, FUN-11 Pay Hourly

Initiating Actor: User

Actor's Goal: Access PARK Company account to view account information.

Participating Actors: PARK Company

Preconditions: The user is on any page of the PARK Company website and connected to broadband internet.

Postconditions: The user has created or logged into an account on the PARK Company website.

Flow of Events for Main Success Scenario:

→ 1) User selects Sign In.

← 2) User is prompted to enter username and password.

→ 3) User enters username and password.

← 4) User signed in and on their user account page.

Flow of Events for Alternate Scenario:

→ 2a) User selects create account on sign in page.

← 3a) User prompted to create a username and password.

→ 4a) User enters desired name and password.

← 5a) User is prompted to enter personal details and to setup a payment method.

← 5b) Username already exists, user prompted to try again with different username.

→ 6) User enters details and sets up payment method.

← 7) User account creation is completed and user may use their account for future parking purchases.

UC-5:

Use Case UC-5: Purchase Parking

Related Requirements: FUN-2: Site Map, FUN-11: Pay Hourly

Initiating Actor: User

Actor's Goal: Purchase hourly parking or initiate a monthly subscription at a particular PARK Company parking location.

Participating Actors: PARK Company, Banking System

Preconditions: The user has an account with a completed payment method. The user is on the PARK Company website. The user has selected a PARK Company parking location.

Postconditions: The user has successfully purchased hourly parking or initiated a subscription.

Flow of Events for Main Success Scenario:

← 1) User views details on selected PARK Company parking location on Site Map.

→ 2) User selects Checkout within details section of PARK Company parking location.

← 3) User is prompted to specify details for checkout.

→ 4) User selects their hourly needs and date/time to initiate hourly parking or selects start date to initiate their monthly subscription.

→ 5) User reviews details and confirms.

← 6) Checkout completed and hourly parking purchase confirmed or monthly subscription confirmed.

UC-6:

Use Case UC-6: Explore Company Information

Related Requirements: FUN-7: Company Contact, FUN-8: Company Information

Initiating Actor: User

Actor's Goal: Find out more information about company and have queries answered.

Participating Actors: PARK Company

Preconditions: The user is on the PARK Company website.

Postconditions: The user has successfully gained information on company and/or submitted queries.

Flow of Events for Main Success Scenario:

→ 1) User selects About Us page.

← 2) Page loads and user is able to explore publicly available company information including contact information.

Flow of Events for Extension:

→ 3) User requires more information and selects Contact Us.

← 4) Contact Us page loads and a form is available for queries.

→ 5) User enters query information and contact information.

← 6) Form delivered to company and user notified of success and approximate wait time for response.

UC-7:

Use Case UC-7: Manage Subscriptions

Related Requirements: FUN-9: Manage Subscription

Initiating Actor: User

Actor's Goal: Successfully change monthly subscription information.

Participating Actors: PARK Company

Preconditions: The user is on the PARK Company website and signed in to their user account.

Postconditions: The user has successfully altered their monthly subscription.

Flow of Events for Main Success Scenario:

→ 1) User navigates to their User Account Page.

← 2) User Account Page displayed.

→ 3) User selects their current monthly subscription which they would like to change.

← 4) Subscription details displayed.

→ 5) User selects changes which should be made to their subscription (i.e. cancel, pause, …).

← 6) Monthly subscription is updated to match user's changes.

UC-8:

Use Case UC-8: Manage Parking Availability

Related Requirements: FUN-12: Add Location, FUN-13: Delete Location, FUN-14: Update Parking

Initiating Actor: Site Administrator

Actor's Goal: Update virtual parking information such that information is accurate to current PARK Company's parking availability.

Participating Actors: PARK Company

Preconditions: The Site Administrator is on the Parking Company website and signed in to their Administrator account.

Postconditions: The Site Administrator has successfully updated PARK Company parking details.

Flow of Events for Main Success Scenario:

→ 1) Site Administrator navigates to Site Map.

← 2) Site Map displayed.

→ 3) Site Administrator selects PARK Company parking location.

← 4) Parking location details displayed.

→ 5) Site Administrator alters details to specific location.

← 6) Location displayed on Site Map with updated details.

Flow of Events for Alternate Scenarios:

→ 5a) Site Administrator selects delete location.

← 6b) Location deleted and no longer visible on Site Map.

Requirements - Use Case Association Table

REQ #	REQ NAME	UC-1	UC-2	UC-3	UC-4	UC-5	UC-6	UC-7	UC-8
FUN-1	Home Page	x							
FUN-2	Site Map		x			x			
FUN-3	Create Account								
FUN-4	Search		x						
FUN-5	Filter Parking-Time			x					
FUN6	Filter Parking-Price			x					
FUN-7	Company Contact						x		
FUN-8	Company Information						x		
FUN-9	Manage Subscription				x			x	
FUN-10	Manage Payment				x				
FUN-11	Pay Hourly				x	x			
FUN-12	Add Location								x
FUN-13	Delete Location								x
FUN-14	Update Parking								x
FUN-15	Mobile	x							
FUN-16	Desktop	x							
FUN-17	Table	x							
FUN-18	Browser	x							
FUN- 19	Filter Parking-EV			x					
FUN-20	Filter Parking-Oversized			x					