

		CSC 413 - Spring 2015	
		Project Specifications	
		Team: 4	
Team	Number	Number	Description
	4 A	0	SPLASH SCREEN
	4 A	1	The app shall display a splash screen upon launch
	4 A	2	The splash screen shall display the app name
	4 A	3	The splash screen shall display the app logo
	4 A	4	The splash screen shall display the current app version
	4 A	5	The splash screen shall display a loading status bar
	4 A	6	Once the app has loaded, the splash screen shall transition to the main screen
	4 B	0	ACCOUNT LOGIN
	4 B	1	User shall be prompted to create a new account at initial launch once, if not, he/she can continue as a guest
	4 B	2	User shall have option to login with existing account
	4 B	3	When creating an account, user shall have option to make an account using Twitter or Facebook
	4 B	4	When logging in with Facebook, the user shall be presented with an option to search for their facebook friends that may already be using the app
	4 B	5	When creating an account, user shall have option to sign up for an email mailing list for news updates
	4 B	6	When creating an account, user shall be required to create a username that is unique to the system
	4 B	7	When creating an account, user shall be required to create a username that is different than the email
	4 B	8	When creating an account, user shall be required to create a password with at least 8 characters
	4 B	9	User password shall have at least one alpha-numeric character
	4 B	10	User password shall have at least one number
	4 B	11	User shall have the option to log in as a guest user
	4 B	12	Guest users shall have limited points to expend on finding parking
	4 B	13	Points for guest users shall be linked to the user's device ID
	4 B	14	Each time a user selects the guest user login option, the user shall see the number of free points remaining
	4 B	15	Each time a user selects the guest user login option the user shall have the option to login with an existing account
	4 B	16	Each time a user selects the guest user login option, the user shall have the option to create a new account
	4 B	17	Guest users will not be able to report inaccuracies within the app without creating an account or logging in first
	4 B	18	Upon successful login or account creation the user shall be asked for more information about their parking preferences
	4 B	19	The user shall be asked what area of the city they spend most time in
	4 B	20	The user shall be asked for their home address
	4 B	21	The user shall be asked for their work address
	4 B	22	The user shall be asked for their school address

4	B	23	The user shall be permitted to fill in any of the parking preferences options at their discretion
4	B	24	The user shall be permitted to skip the parking preferences page altogether
4	C	0	MAIN SCREEN
4	C	1	Once the application is loaded, an interactive map shall be displayed
4	C	2	User pinpoints current location by selecting pinpoint icon
4	C	3	App shall allow user to zoom in/out by interacting with '+' and '-' icons
4	C	4	The app shall feature a shortcut window accessible via the main screen
4	C	5	Shortcut window shall consist of 5 options
4	C	6	To choose desired shortcut, user may select appropriate icon
4	C	7	The user shall have access to a filter interface accessible via the main screen
4	C	8	Filter window shall be hidden above map
4	C	9	User shall display filter window by pulling down tab
4	C	10	To filter by location, user shall enter their location in the field
4	C	11	To filter by time, user shall enter their desired time in the field
4	C	12	To filter by payment type, user shall check boxes that apply
4	C	13	When filter is pulled down, status window shall be displayed where shortcuts were
4	C	14	Once filter window is displayed, the app shall display a status window
4	C	15	Status shall display to user of filtered options
4	C	16	Status of parking time shall be displayed based on color
4	C	17	The user shall enter a desired parking location prior to departing initial location
4	C	18	When user approaches the desired parking location, the app shall display updated parking space information and availability in realtime
4	C	19	When the user is within proximity of desired parking location, the app shall notify the user of available parking spaces via text
4	C	20	When the user is within proximity of desired parking location, the app shall notify the user of available parking spaces via audio
4	E	0	CHECK-IN SCREEN
4	E	1	The check-in page shall prompt the user for parking space information
4	E	2	The user shall provide the location of the parking space occupied
4	E	3	The user shall provide the type of parking space occupied, either street or structure/lot
4	E	4	The user shall provide the stall number, if available
4	E	5	If stall number is not available, the user shall provide the make and color of his/her parked vehicle
4	E	6	The user shall provide the expected time of departure from the parking space
4	E	7	The user shall confirm or abort check-in when prompted
4	E	8	If user confirms check-in, the app shall store the user's current GPS location
4	E	9	If user confirms check-in, the app shall call the timer screen
4	E	10	The app shall permit the editing of parking space info for five minutes after check-in is confirmed
4	E	11	The app shall permit the user only check-in at any time
4	F	0	CHECK-OUT SCREEN

4	F	1	The app shall display the current time juxtaposed with the user's intended departure time
4	F	2	The app shall require the user to be within a predefined proximity (to be further determined) from the parking spot as determined by the original GPS location saved at check-in
4	F	3	The app shall require the user to check out within a predefined time window (to be further determined) relative to the user's intended check-out time
4	F	4	The user shall opt either to initiate the check-out process or to return to the timer screen
4	F	5	If the user initiates check-out process, the app shall require final confirmation
4	F	6	The app shall notify the user if he/she is not within required proximity of the parking spot (as described in entry F2)
4	F	7	The app shall notify the user if check-out time is not within the required time window (as described in entry F3)
4	F	8	Should the user complete check-out within invalid proximity and/or invalid time window (as described in entries F2 and F3), the app shall deduct a "coin" from the user's account
4	F	9	The app shall display confirmation upon successful check-out
4	G	0	TIMER SCREEN
4	G	1	The app shall display a timer denoting the number of hours, minutes, and seconds until the time of intended check-out
4	G	2	The app shall allow the user to access alarm options
4	G	3	The app shall allow the user to access the 'car finder' function
4	G	4	The app shall allow the user to minimize the timer to an icon on the device home page which will restore the timer page when selected
4	G	5	The app shall allow the user access to the check-out screen
4	H	0	ALARM SCREEN
4	H	1	The app shall trigger any active alarm at their appointed times
4	H	2	Once an alarm has triggered, the app shall require the user to deactivate it
4	I	0	GENERAL SETTINGS
4	I	1	The app shall provide the user the option to create an account if he/she doesn't already have one
4	I	2	User shall be prompted for a Username/Email-Id to create an account
4	I	3	User shall be prompted for a password
4	I	4	User shall select the "About" option to get help on using the parking app
4	I	5	User shall select the "About" option to check if the app is using the latest version or not
4	I	6	User shall select the "About" option to Report an issue
4	I	7	User shall select the "Audio" option if he/she wishes to toggle audio on/off
4	I	8	User shall select the "Language" option to select a language in which he/she wants to use the app in
4	I	9	User shall select "Buy Coins" option to check how many coins he/she is left with
4	I	10	User shall be given an option to buy more coins if he/she wants
4	I	11	User shall select the "Share Location" option if he/she wants to share a parking location
4	I	12	User shall select the "Share Location" option if he/she wants to notify someone for a spot that is going to free up soon
4	I	13	User shall select the "Reset Settings" option if he/she wants to reset all the saved settings
4	J	0	ADDITIONAL SETTINGS
4	J	1	User shall set settings to save search history of past parking searches

4	J	2	User shall save searches and add them to an archive of favorite areas of parking
4	J	3	User shall turn on recent searches that will show the recent searches of parking areas that the user inputted in the search
4	J	4	User shall turn off recent searches option
4	J	5	User shall turn on/off information regarding parking structure exits
4	J	6	User shall turn on/off handicap parking locator functionality
4	J	7	User shall turn on/off large truck (commercial, trailer, etc.) parking space availability
4	J	8	User shall turn on/off electric vehicle charging station locations
4	J	9	User shall turn on/off motorcycle parking locations
4	J	10	User shall filter parking locations catered to SUV/Minivans
4	J	11	User shall filter out "cash-only" lots
4	J	12	User shall turn on/off road construction updates based on past driven roads
4	J	13	User shall see information/description regarding why vehicle information will be useful for parking accuracy
4	J	14	User shall include additional vehicle information for much more detail and accuracy of parking space
4	J	15	User shall input make, model, and year of vehicle so system may determine more detailed parking
4	J	16	User shall turn on/off timer functionality that determines when parking time spot is up
4	J	17	User shall switch on/off location
4	J	18	User shall share vehicle parking data to other users
4	J	19	User shall turn on/off profile privacy
4	K	0	USER PREFERENCES
4	K	1	Users shall include an option to determine their favorite areas of destination
4	K	2	By clicking on their favorite destinations, users shall determine right away of whether or not there is parking nearby that location within a user specified distance
4	K	3	Users shall specify their favorite general public location (ie. university, restaurant, sports arena, park, etc.)
4	K	4	Users shall specify their home location and current parking availability
4	K	5	User shall turn on/off report functionalities that give various reports of parking areas
4	K	6	User shall adjust report settings, turning off or turning on specific reports or parking location
4	K	7	Users shall turn off/on reports including, but not limited to, level of fine distribution reported by other users, level of crime activity in the area, types of parking within that specific area (meter, structure, residential, terrain, hills, etc.)
4	K	8	User shall input custom criteria/priorities for specifically desired parking spaces
4	K	9	User shall weigh their own levels of desired parking via drag functionality
4	K	10	Parking information shall include parking structure, parking meters, residential parking, level parking or hills, high and low traffic areas, valet parking, "pay by phone" option of parking and whether or not the specified area has lights
4	K	11	User shall determine how long they are willing to walk from destination to determine priority of parking area
4	K	12	User shall decide whether to know of any terrain that may be a factor to parking space
4	K	13	User shall locate BART/MUNI locations and parking availability within the parking structure
4	K	14	Users shall block a specific road to park on
4	L	0	NOTIFICATIONS
4	L	1	The app shall provide notifications to the user in accordance with the user's settings and preferences

4	L	2	The app shall notify the user of approaching expiration of parking space
4	L	3	The app shall notify the user if his/her parking space will be subject to street cleaning
4	L	4	The app shall notify the user of any nearby parking spaces soon to be available
4	L	5	The app shall notify the user of potential parking enforcement
4	L	6	The app shall notify the user of free parking spaces and times
4	L	7	The app shall notify the user if a parking space is within a high risk area
4	L	5	The app shall notify the user of potential parking enforcement
4	L	6	The app shall notify the user of free parking spaces and times
4	L	7	The app shall notify the user if a parking space is within a high risk area
4	M	0	COIN SYSTEM
4	M	1	The user shall receive three digital "coins" upon installing the app
4	M	2	The user shall require an account to acquire additional coins
4	M	3	The app shall award account users one coin for every five successful check-ins/outs of a parking space that occur within the proximity and time window as detailed in entries F2 and F3
4	M	4	The app shall award account users one coin for every successful check-out of a parking space that occurs both within the proximity of the parked vehicle (as detailed in entry F2) and within three minutes of the user's intended check-out time
4	M	5	The app shall remove as "maintenance" one coin every ten days from initial installation
4	M	6	The app shall remove one coin if the user checks out from without the time window as detailed in entry F3
4	M	7	The app shall remove one coin if the user checks out from without the proximity to the parking space as detailed in entry F2
4	M	8	The user shall possess no less than zero coins
4	M	9	The user shall be unable to use the parking space search function if his/her coins total zero