Website Sequence Diagram
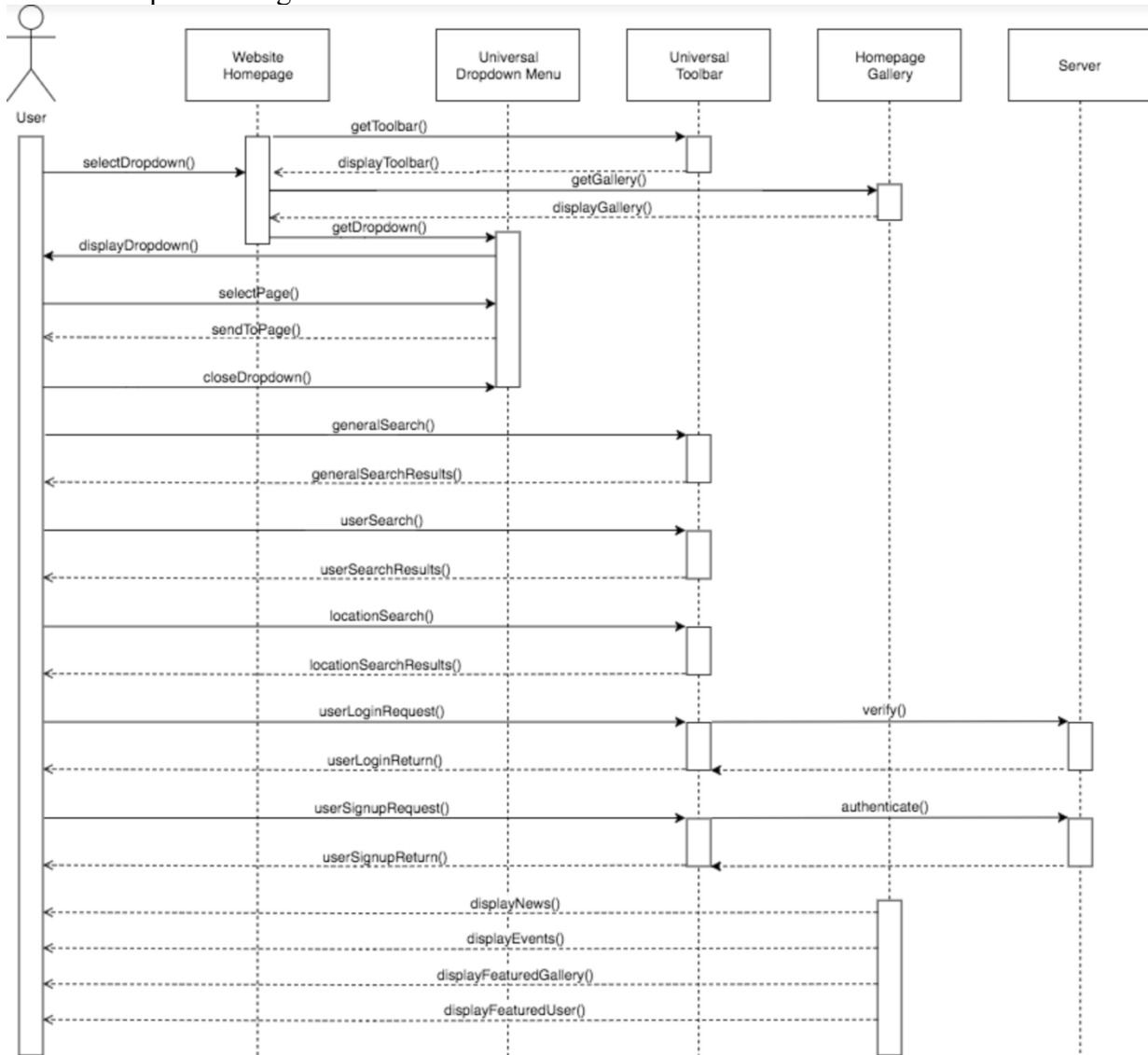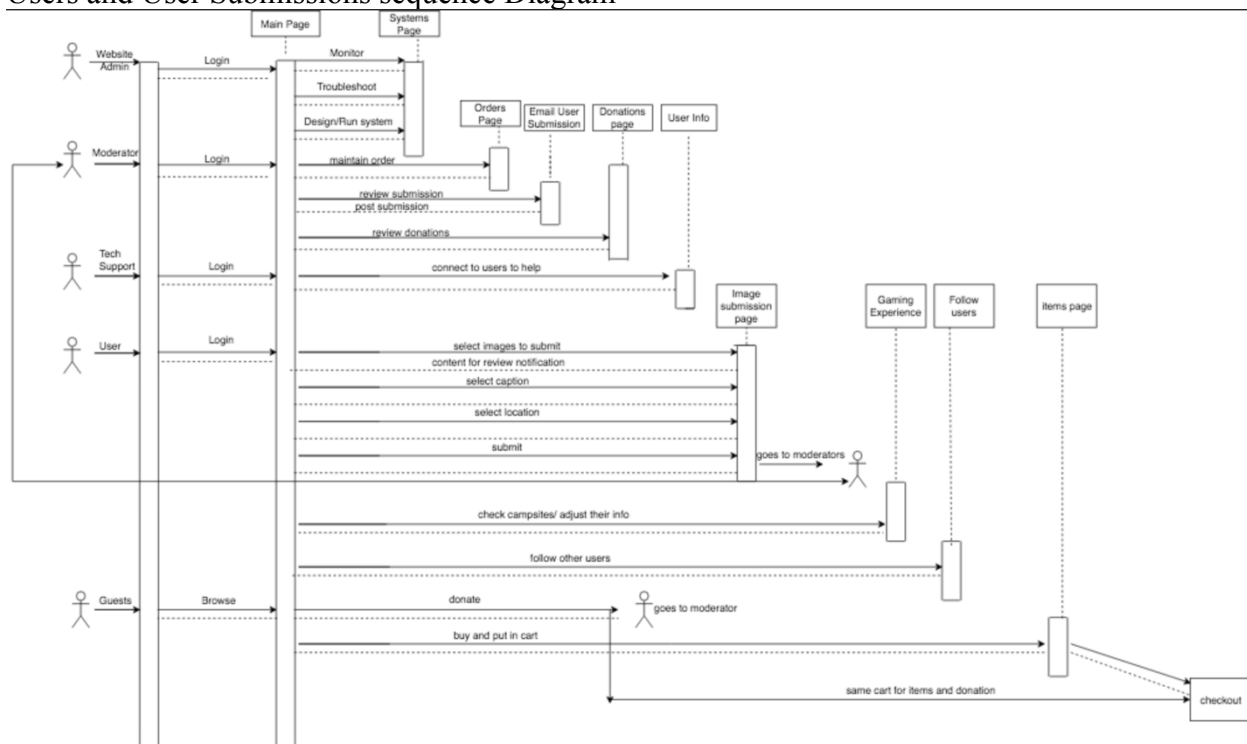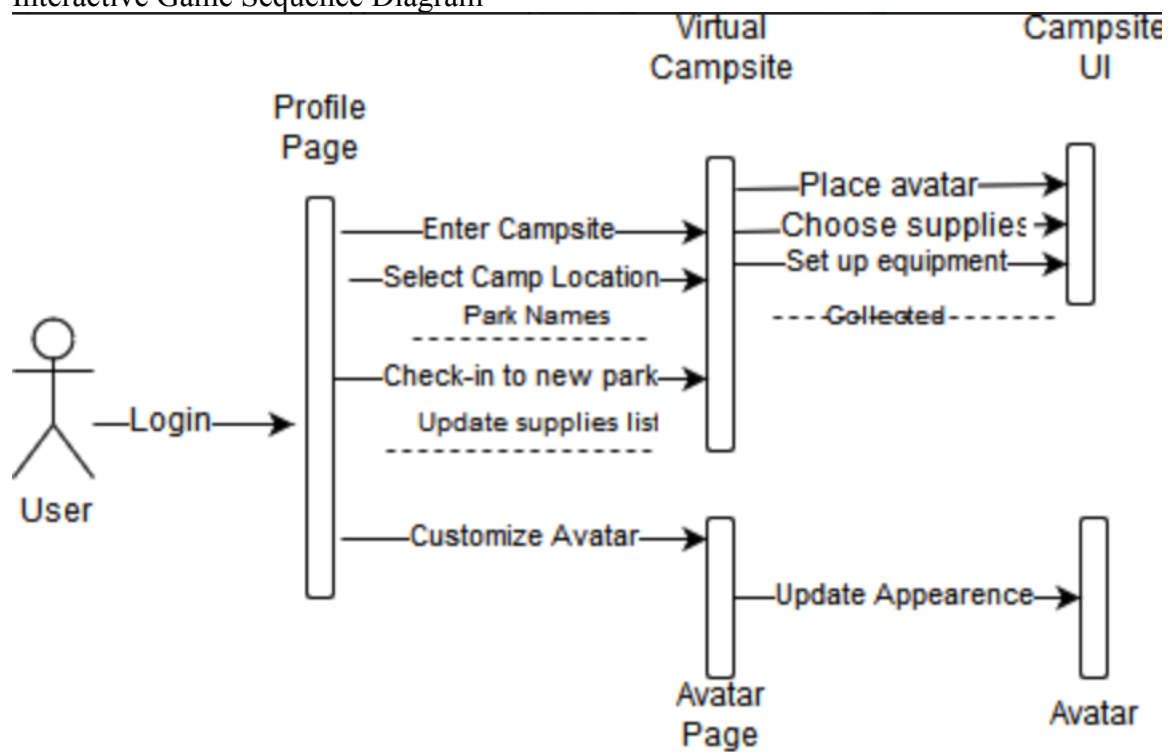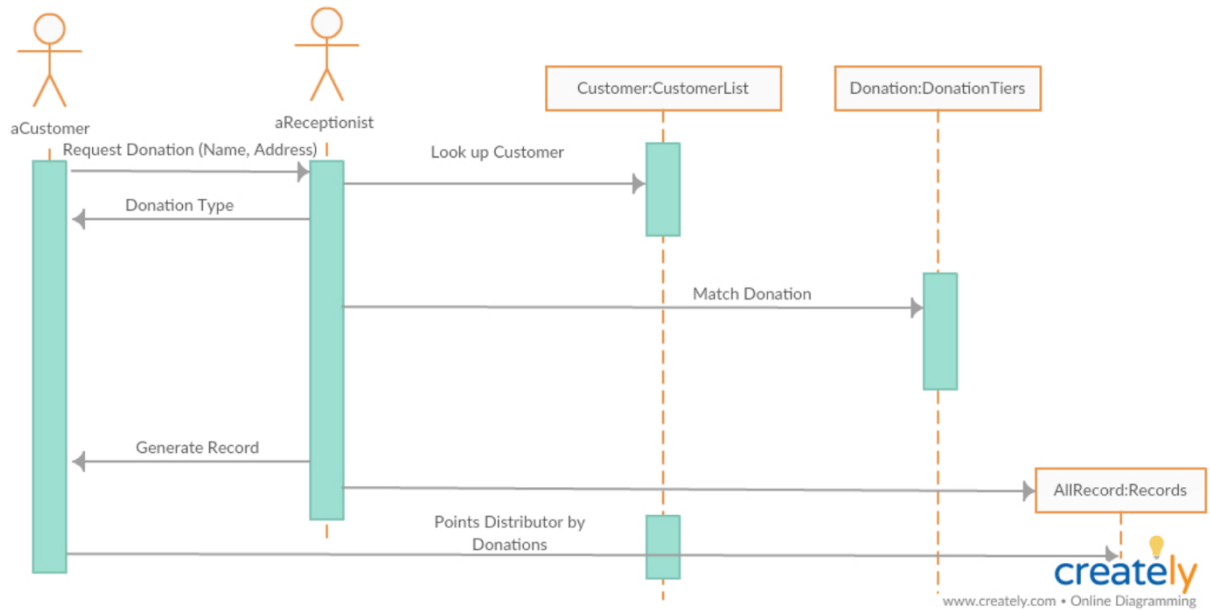
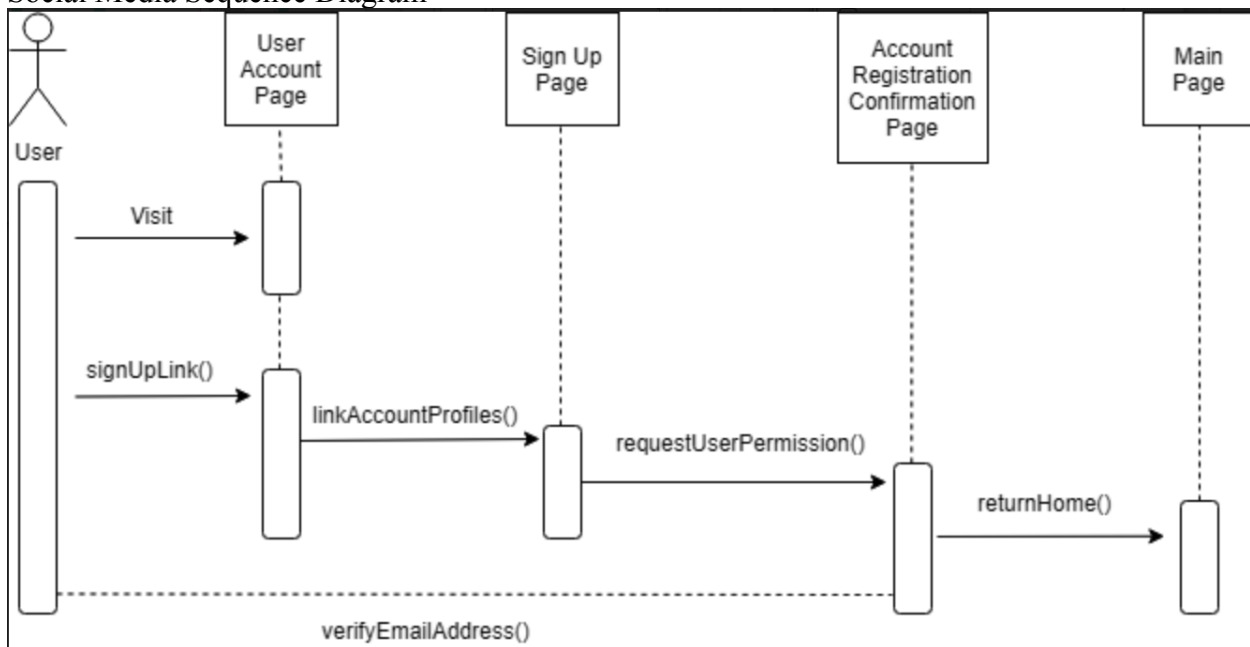## Users and User Submissions sequence Diagram
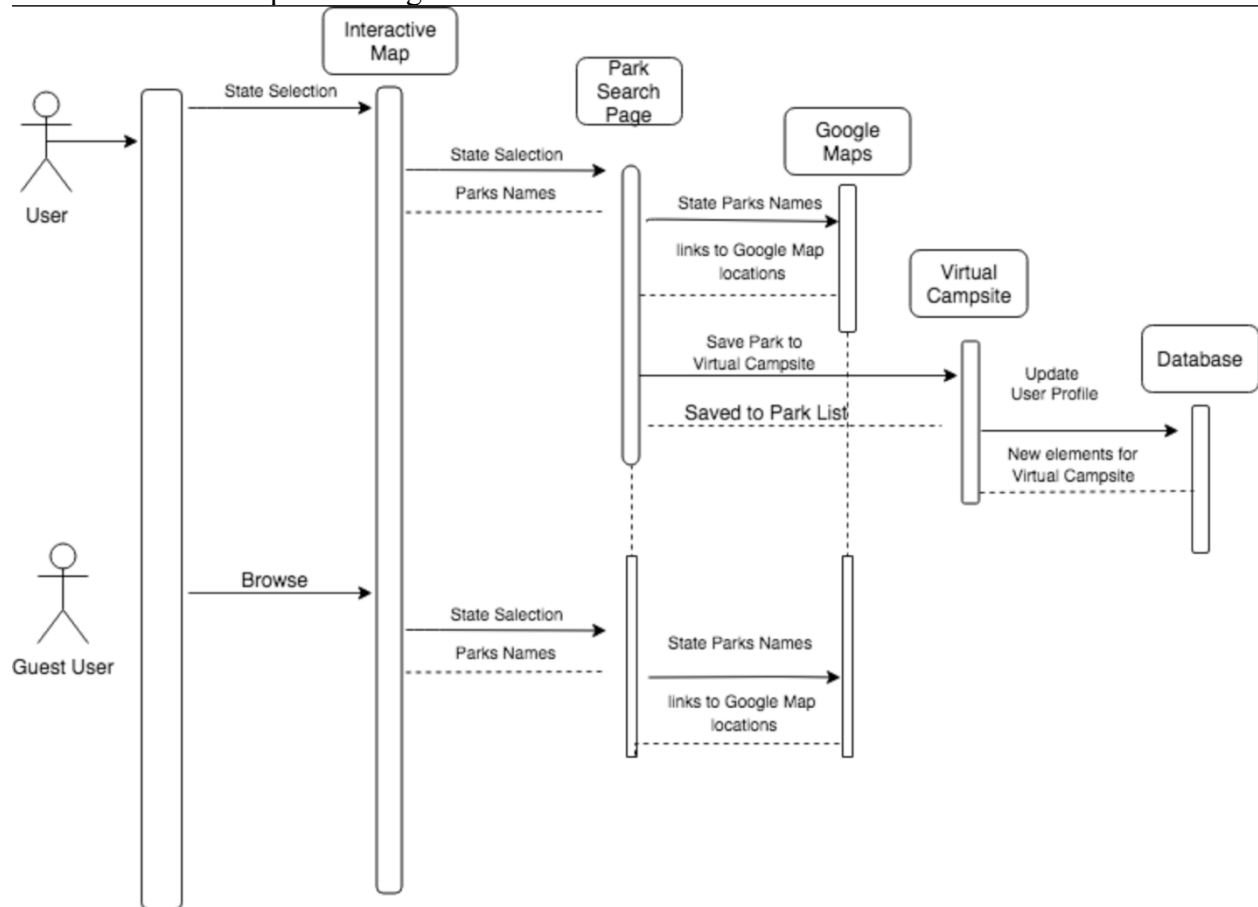

Interactive Game Sequence Diagram

Sequence Diagram: Donations -> National Park Service Website

Social Media Sequence Diagram

States and Parks Sequence Diagram

Name	Universal Dropdown Menu
Description	A quick and easily accessed directory of the website's primary pages, including State and Parks Directory, Pricing and Tickets, Donations, Gallery, and Contacts
Actors	1. User 2. Guest User 3. Server
Organizational Benefits	Instant access to website's essential pages from any point on the site.
Frequency of Use	Available for use on all site pages.
Triggers	A user selects the dropdown menu.
Preconditions	A user accesses the website.
Postconditions	A user is directed to a desired webpage.
Main Course	1. A user selects the **Menu** option at the top of the website's current page. 2. The menu drops down and displays options for pages on the website. 3. A user selects a page option from the menu. 4. The server accepts a request to visit the selected page. 5. A user is redirected to the selected page.

Alternate Course	AC1
	  1. A user directly enters a page address in their browser.
	AC2
	  1. A user closes the dropdown menu.

Exceptions	EX1 1. A user selects another available link outside of the dropdown menu.

Name	Universal Toolbar Site Search
Description	An easily accessed toolbar available on all site pages that allows users to quickly search the site for parks, users, and other information using text input.
Actors	1. User 2. Guest User 3. Server
Organizational Benefits	Instantly search for information available on the website.
Frequency of Use	Available for use on all site pages.
Triggers	A user selects one of the search buttons on the toolbar.
Preconditions	A user accesses the website.
Postconditions	A user is directed to a list of search results.
Main Course	1. A user selects the search bar available on the toolbar. 2. A user enters text relevant to the information they're looking for. 3. A user submits a request to the server with this search input. 4. The server searches the website for relevant information. 5. The server directs the user to a list of search results.
Alternate Course	AC1 1. A user enters input but does not submit a search request.
Exceptions	EX1 1. The server is unable to find any information relevant to user input. EX2 1. The user attempts to enter invalid input (e.g. inject code to search bar)

Name	Universal Toolbar Login and Signup
Description	A prompt for a user's username and password with options to login or signup, as well as options to login or signup via social media, easily accessed on a toolbar available on all site pages.
Actors	4. User 5. Guest User 6. Server
Organizational Benefits	Quick and easy user login or signup.
Frequency of Use	Available for use on all site pages.
Triggers	A user selects the login/signup prompt located on the toolbar.
Preconditions	1. A user selects the login/signup prompt. 2. A user selects an option to login via social media.
Postconditions	1. A user is logged in to the website. 2. A confirmation email is sent to a user attempting to sign up on the website.
Main Course	1. A user enters a username and password in the login prompt. 2. A user selects an option to login or sign up with the given username and password. 3. A login or signup request is sent to the server. 4. The server verifies login information or sends confirmation to prospective user email.
Alternate Course	AC1 1. A user signs up and logs in using a social media account associated with the website.
Exceptions	EX1 1. The website fails to verify user information.

	EX2
	  1. The user enters invalid values for username and password
	EX3
	  1. The server fails to send a confirmation to user's email.

Name	Website Homepage Gallery
Description	A gallery of park news, events, featured photos, and featured users available on the website's homepage.
Actors	1. User 2. Guest User 3. Server
Organizational Benefits	Instant view of the website's highlights.
Frequency of Use	Available on the website's homepage.
Triggers	A user accesses the website's homepage.
Preconditions	A user accesses the website.
Postconditions	A user can view website gallery.
Main Course	1. A user accesses the website's homepage. 2. The server receives a request to display featured information. 3. The gallery is displayed on the website's homepage.
Alternate Course	AC1 1. A user does not utilize the gallery.
Exceptions	EX1 1. The server can't find appropriate information to feature in the gallery.

States and Parks Use Cases

Name	Finding a park feature
ID	State_Parks
Description	When the user wants to search for a park, they will be sent to the interactive map where they can choose the state they prefer. When a state is selected, links, photos and information from the parks in that state, sorted by distance will appear.
Actors	User, Guest User
Organizational Benefits	Efficient process for finding a park in a state using an interactive map of the U.S
Frequency of Use	Every time that the user chooses to use search for a park
Triggers	User goes into the **Park Search** section of the website.
Pre Conditions	User is signed in or guest account is chosen
Post Conditions	The state selected will direct the user to another page with links, photos and information to the parks sorted by distance.
Main Course	1. Users select the **Park Search** option 2. Users are directed to the **Interactive Map** where they select the state they prefer (see AC1). 3. A list of park will be shown with **Google Maps** links to view the location of the parks. These will be sorted from distance of user.() 4. When the user selects a link the will be redirected to the **Google Maps** website. 5. If the user is using a **Guest Account** (See AC2) 6. If the user is **Signed In,** the system will prompt the user if they would like to save park to **Virtual Campsite** (See Interactive_Game Use Case).
Alternate Courses	AC1 the user will be prompted to **Share Location** or enter their Zip-Code to sort list by distance. 　1. Return to Main Course step 3. AC2 system prompts user to sign in or sign up.

	1. User Creates account (see Website Use Case). 2. System asks for user authentication. 3. System asks user to sign in. 4. System redirects to the **State Parks Page** where they left off. 5. Return to Main Course step 6.

Exceptions	EX1 User wants to select a different state.
	   1. A button will redirect the user to the Interactive map where they can choose another park.
	   2. Return user to Main Course step 2.
	EX2 System Fails on displaying the Google Link.
	   1. System notifies user that an error has occurred.
	   2. System tells user to refresh page.
	   3. Return user to Main Course step 3.

Use Cases For Donations

Name	Donations Section on the National Park Website
ID	4
Description	User's can donate money on what park they want to.
Actors	User, Stripe
Organizational Benefits	Better events and making a fun experience for the visitors
Frequency of Use	Every time that the user chooses to donate money to the park
Triggers	The User can receive a list of awards and "thank you" items for donations of different tiers.
Pre-Conditions	Donation Section on website Select the Park, you want to donate Select the tier or an amount of their choosing
Post-Conditions	Earn points on how much you donated to the park
Main Course	1. User go to Donation section on the website 2. Select the park, it wants to donate to 3. Choose the tier that suits the amount you want to donate 4. Put User's personal information(Name, Address) and card information 5. Before Submitting, making sure if the user make the right amount for donation.
Alternate Courses	
Exceptions	Check if the transaction went through or not

Name	Users and User submission
ID	0004
Description	Actors login and perform task according to their ranks.
Actors	Website administrator, moderator, tech support, user, guests
Organizational Benefits	Making it easier for users to use the website smoothly without interruptions.
Frequency of Use	Everytime user decides to donate, search, buy, or use their campsites.
Triggers	User can run into technical problems while browsing, using their game experience or buying and donating.
Pre-Conditions	Make a user account depending on the type of user you are(admin, tech, moderator)
Post-Conditions	1. User pictures get posted. 2. Items are shipped. 3. Donations posted.
Main Course	1. Admin- Login, monitor, troubleshoot, design 2. Moderator- maintain order, review submission, review donations, post submissions. 3. Tech support- help user to connect or any other tech problems users have. 4. User- submit image, campsite, follow other users. 5. Guest- browse, buy, donate.
Alternate Courses	User is already logged in.
Exceptions	1. User decides to save item for later. 2. Guest decide not to make a account.

Name	Social Media
ID	SM_415
Description	If a user wishes to create an account on our site in order to share photos and reviews or purchase tickets, and connect with other account users who have visited, are visiting, or plan on visiting any park(s).
Actors	User
Organizational Benefits	Creates connectivity and popularity of parks by having the guest connect to their social media accounts, increasing the amount of park visitors.
Frequency of Use	Whenever a new user signs up or a guest user logs into their account on the site in order to share pictures and reviews, or check in to a park's location
Triggers	User clicks the sign up/log in link on the website's homepage
Preconditions	User is on the National and State Parks site home page
Postconditions	User can view and post photos and reviews of state parks and it will link to their social media account.
Main Course	1. User clicks the sign up/login link on website 2. User is prompted to sign up using one of the multiple social media accounts (Facebook, Twitter, Google+, Instagram) [See AC1] 3. User is prompted to allow the site to access their social media profile 4. Email verification is sent to the user's email address 5. User is directed to back to the homepage [See AC3]
Alternate Courses	AC1. New user signing up doesn't have a social media account

	1. A email-based sign up option is listed under the social media sign up link
	2. The sign up page will prompt the user to create an account using an existing email address and to create a password for the site [See EX1, EX2]
	3. A verification email will be sent to the user's email address
	
	AC2. User already has an account
	    1. User clicks the "Already have an account? Login here" link
	    2. User chooses to log in using whichever social media account or email address they previously signed up with
	    3. Return to Main Course step 5
	
	AC3. User wants to view their "My Profile" page
	    1. User clicks the My Profile icon
	    2. User is redirected to their profile page which features My Gallery, My Reviews, and My Purchases tabs
	    3. User can view "My Gallery" [See User and User Submissions]
	    4. User can view "My Reviews [See User and User Submissions]
	    5. User can view "My Purchases" [See Ticketing]

Exceptions	EX1. User signs up with invalid email address
	    1. An error message pops up that says "The email address you entered does not exist"
	    2. Return to Main Course step 2
	
	EX2. The password the user created doesn't meet the requirements
	    1. An error message pops up that says "The password you created does not meet the requirements. Please create a new password."
	    2. Return to Main Course step 2.

Name	Gaming Experience
ID	0004
Description	Users can interact with the in-browser gaming experience where they can collect supplies and manage their virtual campsite.
Actors	User
Organizational Benefits	Gives users an interactive experience that will connect the virtual state parks site with the physical state parks.
Frequency of Use	When the user chooses to manage their profile. When the user goes to a state park and collects supplies for their virtual campsite. When the user chooses to customize their avatar.
Triggers	User navigates to their campsite through their profile or user collects supplies while roaming.
Pre-Conditions	Create an account on the National Parks Website and create a campsite.
Post-Conditions	Customize and improve virtual campsite.
Main Course	1. User creates a campsite 2. User creates an avatar 3. User collects supplies via roaming/location services
Alternate Courses	1. User edits their avatar 2. User edits their campsite
Exceptions	1. User is not logged in 2. The location is not registered

Name	Purchasing a ticket or pass
ID	6
Description	Purchasing a ticket or pass to a variety of National parks using the site's directory
Actors	Customer/Patron, Admin
Organizational Benefits	Accessing the ticketing feature through the website will be efficient for customers and will decrease lines at state parks. Also, checkout will include a feature that allows donations.
Frequency of Use	Every time the user chooses to obtain tickets through the website
Triggers	User selects the park that they want to visit
Pre Conditions	- The user searches for a specific park - The user uses the parks directory on the site - The user selects the option to buy tickets or passes and they are added to the cart
Post Conditions	- The user will then be able to track past orders - The user's interactive gaming experience will track parks visited through past orders
Main Course	1. User selects tickets and adds to cart 2. User proceeds to checkout 3. Admin verifies transaction
Alternate Courses	1. User cancels a ticket purchase 2. User saves park to a list of parks they would like to visit
Exceptions	1. User has invalid card information 2. User has insufficient funds 3. Park is closed following extenuating circumstances