1. **Website**
   1. **Functional**
      1. The parks website will be built ground-up using:
         1. JQuery
         2. Bootstrap
         3. Javascript
         4. HTML
      2. The website will use a database built in SQL.
         1. The following tables will be included in the website’s database:
            1. Parks
            2. States
            3. Users
            4. Ticketing
            5. Donations
      3. The website will use an SSL Certificate to ensure secure website connections and transactions.
      4. The website will feature a homepage with the following features.
         1. A universal drop-down menu, accessible on all site pages, featuring the following sub-menus.
            1. “State and Parks Directory”
            2. “Pricing and Tickets”
            3. “Donations”
            4. “Gallery”
            5. “Contacts”
         2. A gallery of park highlights featuring:
            1. Listing of park news
            2. Listing of park events
            3. A short gallery of top park photos
            4. A featured user with high amount of park points.
         3. A universal toolbar, accessible on all site pages. The toolbar will include:
            1. Search Features

A Google Search Bar

A “Find a Location” button which will link to the states and parks directory.

A “Find a User” button which will:

Transition to a search bar allowing for user input of user names.

Link to user profiles upon successful search.

* + - * 1. Option for user signup and login

Users will be able to sign up by linking their social media accounts on the following networks:

Facebook

Twitter

Instagram

Google+

User sign up will require email authentication.

Alternatively, users will have the option to signup and login with a username and password.

Usernames will be registered email addresses.

Passwords will be case-sensitive.

Passwords will be limited to 16 alphanumeric characters.

On signup, passwords will require at least one number and one symbol.

* 1. **Non-Functional**
     1. The homepage will feature a website logo.

1. **State and Parks Directory**
   1. **Functional**
      1. The state and parks directory will be accessible through the website’s drop-down menu.
      2. The directory will feature an interactive map of the United States.
      3. Users will be able to select a state from the map by clicking on it in the interactive map.
      4. Selecting a state will allow a user to select parks from that state.
      5. Selecting a park will generate a Google Maps link to the park.
   2. **Non-Functional**
      1. Selecting a state will present a user with a visual of all parks in the selected state.
      2. Selecting a park will generate:
         1. A list of facts about the selected park.
         2. A short gallery of official park images.
         3. A collection of park reviews by users.
         4. A gallery of user image submissions of the park
         5. A ticket link to the selected park
2. **Donations**
   1. **Functional**
      1. The donations page will be accessed through the website’s drop-down menu.
      2. Donations will be submitted through Stripe.
      3. Donations will be buffered with payment verification.
      4. Donations will be included with ticket check-out.
      5. Donations will be available in various tiers.
         1. Users will be presented with various donation tiers:
            1. Bronze
            2. Silver
            3. Gold
            4. Platinum
         2. “Other” will allow users to make donations at an amount of their choosing.
            1. “Other” field will allow for input of dollar value by user.
   2. **Non-Functional**
      1. The donations page will feature a list of awards and “thank you” items for donations of different tiers.
      2. Donations will be submitted to National Parks Service.
      3. Donations will be accepted from private and commercial parties.
      4. A Donor of the Week will be featured on the donations page featuring a donor and a small amount of information about the donor.
3. **Users and Submissions**
   1. **Functional**
      1. User tiers and their features are as follows:
         1. Website Administrators
4. Monitor the System.
5. Troubleshoot
6. Design and run the system.
7. Manage and assist with user information.
   * + 1. Moderators
8. Maintain order of the website.
9. Review submission sent by users.
10. Post submissions.
    * + 1. Technical Support
           1. Technical support will manage website upkeep.
           2. Help users with connection problems or anything tech related.
        2. General Users
           1. General users will have user profiles.
           2. Users can submit pictures.
           3. User choose to follow other users.
           4. Users can access their campsites.
        3. Guest Users
           1. Guest users will be able to browse the website.
           2. Guest users can also donate or buy.
           3. Guest users can also mak
      1. General users will each have an individual user profile.
      2. User profiles will include the following features:
         1. A gallery of photos submitted
         2. A list of donations made
            1. With options for public or private donation listing.
         3. Game Accomplishments
         4. Profile Photo
         5. Interactive Campsite Gaming Experience
      3. Users must be signed in to submit images.
      4. Users will submit images through their user profile.
      5. User submissions will have fields for:
         1. Captions
         2. Location
      6. User submissions will be reviewed by site moderators before publishing.
         1. All submissions will be forwarded to a general moderator email, designated for reviewing user submissions.
    1. **Non-Functional**
       1. Users will be able to follow the activity of other users.
11. **Social Media**
    1. **Functional**
       1. The website will feature connectivity with:
          1. Facebook
          2. Twitter
          3. Instagram
          4. Google+
       2. The website will allow for social media account linking for signup and login.
       3. The website will feature links to National Parks Service social media accounts.
       4. Users will be able to link photos from their social media accounts and submit them to the website.
    2. **Non-Functional**
       1. Social Media site logos will be included at the bottom of the webpage.
12. **Ticketing**
    1. **Functional**
       1. The ticketing page will be accessible through the website’s drop-down menu.
       2. Users will be able search for tickets and passes for parks and filter their searches by:
          1. Park Name
          2. State
          3. Ticket Price
    2. **Non-Functional**
       1. User selection will generate a Google Maps visual and link to their selected park.
13. **Gaming Experience**
    1. **Functional**
       1. The website will feature a 2D virtual campsite gaming experience.
       2. Each user will have an individual virtual campsite inhabited by their own animated 2D avatar.
       3. Virtual campsites will be accessible through a window in user profiles.
       4. Visitors to a user’s profile will be able to view the virtual campsite of the user they are visiting.
       5. A user will be able to earn different customization options for their virtual campsite and virtual avatar by visiting different state parks.
       6. Virtual campsites will have the following features:
          1. A campsite layout with options for:
             1. Customizable camp residences awarded by total number of parks visited (e.g. Tent, Cabin, RV, Camper, etc.)
             2. Customizable amp companions based on animals inhabiting a user’s visited parks (e.g. bears, wolves, birds, etc.)
             3. Customizable camp gear based on camp activities (e.g. kayaks, mountain climbing equipment, bikes, etc.)
             4. A campfire surrounded with customizable seating.
          2. A user avatar with options for:
             1. Customizable avatar clothing based on state parks.
             2. Physical appearance.
             3. Greetings for other users visiting your virtual campsite.
    2. **Non-Functional**
       1. The virtual campsite will be visible in 2D.
       2. Each user will have a personal avatar featured in their virtual campsite.