

1. Website

a. Functional

- i. The parks website will be built ground-up using:
 1. JQuery
 2. Bootstrap
 3. Javascript
 4. HTML
- ii. The website will use a database built in SQL.
 1. The following tables will be included in the website's database:
 - a. Parks
 - b. States
 - c. Users
 - d. Ticketing
 - e. Donations
- iii. The website will use an SSL Certificate to ensure secure website connections and transactions.
- iv. 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.
 - a. "State and Parks Directory"
 - b. "Pricing and Tickets"
 - c. "Donations"
 - d. "Gallery"
 - e. "Contacts"
 2. A gallery of park highlights featuring:
 - a. Listing of park news
 - b. Listing of park events
 - c. A short gallery of top park photos
 - d. A featured user with high amount of park points.
 3. A universal toolbar, accessible on all site pages. The toolbar will include:
 - a. Search Features
 - i. A Google Search Bar
 - ii. A "Find a Location" button which will link to the states and parks directory.
 - iii. A "Find a User" button which will:
 1. Transition to a search bar allowing for user input of user names.
 2. Link to user profiles upon successful search.

- b. Option for user signup and login
 - i. Users will be able to sign up by linking their social media accounts on the following networks:
 - 1. Facebook
 - 2. Twitter
 - 3. Instagram
 - 4. Google+
 - ii. User sign up will require email authentication.
 - iii. Alternatively, users will have the option to signup and login with a username and password.
 - 1. Usernames will be registered email addresses.
 - 2. Passwords will be case-sensitive.
 - 3. Passwords will be limited to 16 alphanumeric characters.
 - 4. On signup, passwords will require at least one number and one symbol.

b. Non-Functional

- i. The homepage will feature a website logo.

2. State and Parks Directory

a. Functional

- i. The state and parks directory will be accessible through the website's drop-down menu.
- ii. The directory will feature an interactive map of the United States.
- iii. Users will be able to select a state from the map by clicking on it in the interactive map.
- iv. Selecting a state will allow a user to select parks from that state.
- v. Selecting a park will generate a Google Maps link to the park.

b. Non-Functional

- i. Selecting a state will present a user with a visual of all parks in the selected state.
- ii. 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

3. Donations

a. Functional

- i. The donations page will be accessed through the website's drop-down menu.
- ii. Donations will be submitted through Stripe.
- iii. Donations will be buffered with payment verification.
- iv. Donations will be included with ticket check-out.
- v. Donations will be available in various tiers.
 - 1. Users will be presented with various donation tiers:
 - a. Bronze
 - b. Silver
 - c. Gold
 - d. Platinum
 - 2. "Other" will allow users to make donations at an amount of their choosing.
 - a. "Other" field will allow for input of dollar value by user.

b. Non-Functional

- i. The donations page will feature a list of awards and "thank you" items for donations of different tiers.
- ii. Donations will be submitted to National Parks Service.

4. Users and Submissions

a. Functional

- i. User tiers and their features are as follows:
 - 1. Website Administrators
 - a. Monitor the System.
 - b. Troubleshoot
 - c. Design and run the system.
 - d. Manage and assist with user information.
 - 2. Moderators
 - a. Maintain order of the website.
 - b. Review submission sent by users.
 - c. Post submissions.
 - 3. Technical Support
 - a. Technical support will manage website upkeep.
 - b. Help users with connection problems or anything tech related.
 - 4. General Users
 - a. General users will have user profiles.
 - b. Users can submit pictures.
 - c. User choose to follow other users.
 - d. Users can access their campsites.

5. Guest Users

- a. Guest users will be able to browse the website.
 - b. Guest users can also donate or buy.
 - c. Guest users can also mak
- ii. General users will each have an individual user profile.
 - iii. User profiles will include the following features:
 1. A gallery of photos submitted
 2. A list of donations made
 - a. With options for public or private donation listing.
 3. Game Accomplishments
 4. Profile Photo
 5. Interactive Campsite Gaming Experience
 - iv. Users must be signed in to submit images.
 - v. Users will submit images through their user profile.
 - vi. User submissions will have fields for:
 1. Captions
 2. Location
 - vii. 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.

b. Non-Functional

- i. Users will be able to follow the activity of other users.

5. Social Media**a. Functional**

- i. The website will feature connectivity with:
 1. Facebook
 2. Twitter
 3. Instagram
 4. Google+
- ii. The website will allow for social media account linking for signup and login.
- iii. The website will feature links to National Parks Service social media accounts.
- iv. Users will be able to link photos from their social media accounts and submit them to the website.

b. Non-Functional

- i. Social Media site logos will be included at the bottom of the webpage.

6. Ticketing**a. Functional**

- i. The ticketing page will be accessible through the website's drop-down menu.
- ii. Users will be able search for tickets and passes for parks and filter their searches by:
 - 1. Park Name
 - 2. State
 - 3. Ticket Price

b. Non-Functional

- i. User selection will generate a Google Maps visual and link to their selected park.

7. Gaming Experience

a. Functional

- i. The website will feature a 2D virtual campsite gaming experience.
- ii. Each user will have an individual virtual campsite inhabited by their own animated 2D avatar.
- iii. Virtual campsites will be accessible through a window in user profiles.
- iv. Visitors to a user's profile will be able to view the virtual campsite of the user they are visiting.
- v. A user will be able to earn different customization options for their virtual campsite and virtual avatar by visiting different state parks.
- vi. Virtual campsites will have the following features:
 - 1. A campsite layout with options for:
 - a. Customizable camp residences awarded by total number of parks visited (e.g. Tent, Cabin, RV, Camper, etc.)
 - b. Customizable amp companions based on animals inhabiting a user's visited parks (e.g. bears, wolves, birds, etc.)
 - c. Customizable camp gear based on camp activities (e.g. kayaks, mountain climbing equipment, bikes, etc.)
 - d. A campfire surrounded with customizable seating.
 - 2. A user avatar with options for:
 - a. Customizable avatar clothing based on state parks.
 - b. Physical appearance.
 - c. Greetings for other users visiting your virtual campsite.

b. Non-Functional

- i. The virtual campsite will be visible in 2D.
- ii. Each user will have a personal avatar featured in their virtual campsite.