Put It In Park



Picture from: http://geology.isu.edu

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CS373 – Software Engineering

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# 1 Motivation

This project aims to encourage Americans and tourists to go outdoors by highlighting National Parks and recreational activities in their area. In doing this, we hope to answer three questions:

1. What outdoor activities can the user participate in throughout their area?
2. Is there a correlation between accessibility to outdoor parks/recreation and physical activity?
3. Has American visitation of national parks/participation in outdoor activities changed in recent years?

# 2 User Stories

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## 2.1 User Story 1

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## 2.2 User Story 2

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## 2.3 User Story 3

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## 2.4 User Story 4

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## 2.5 User Story 5

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# 3 RESTful API

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# 4 Models

## 4.1 National Parks

The model “National Parks” represents the 61 parks throughout the United States. This model connects to the “Location” model as location plays a large part in park visitation, and it connects to the “Recreational Activities” model as National Parks often include outdoor recreation.

### 4.1.1 Examples of filtered/sorted attributes

1. Name
2. Location
3. Park fees
4. Dates open
5. Visitors per year (or ranking)
6. Date founded

### 4.1.2 Examples of searchable attributes

1. Major sites
2. Facilities
3. Campgrounds
4. Events
5. News
6. Wildlife
7. Seasonal climates

## 4.2 Recreational Activities

The model “Recreational Activities” represents the estimated 1000+ recreational activity opportunities throughout the United States. This model connects to the “Location” model as different recreational activities are available based upon location, and it connects to the “National Parks” model as National Parks often include outdoor recreation.

### 4.2.1 Examples of filtered/sorted attributes

1. Name
2. Location
3. Fees
4. Date
5. Permit required (true/false)

### 4.2.2 Examples of searchable attributes

1. Activity type
2. Sponsoring Organization
3. Facilities
4. Events
5. Tours

## 4.3 Location

The model “Location” represents the 50 states within the United States. This model connects to the “Recreational Activities” model as different recreational activities are available based upon location, and it connects to the “National Parks” model as National Parks are visited heavily based upon their location and are tied to the ecosystem of the land they exist on.

### 4.3.1 Examples of filtered/sorted attributes

1. State name
2. Physical activity by state
3. Number of national parks
4. Number of recreational activities available
5. Population

### 4.3.2 Examples of searchable attributes

1. Native animal species
2. Native plant species
3. Bodies of water
4. Land characteristics
5. Tourist attractions

# 5 Tools

## 5.1 Tool 1

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## 5.2 Tool 2 (etc.)

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# 6 Hosting????

Does this even have to be a subsection? I didn’t get what he meant by this.