Capstone Project Proposal

- Goals
 - A. Find different outdoor recreation activities throughout the US.
 - 1. View locations on a map
 - B. Find different events or tours related to outdoor recreation
 - C. Plan a trip, based around chosen activities.
 - 1. Identify where you can stay
 - a) Camping
 - b) Lodging
 - c) Etc
 - 2. Identify what permits might be needed
 - 3. Identify what reservations might be needed
 - 4. Link to resources related to activities/lodging/etc
 - D. Save trip plans
 - 1. Simple daily itenery
 - 2. Checklist ie permits have been applied for, lodging reservations have been made
 - 3. Area to take notes/make comments
 - 4. Rate experiences?
- II. Users
 - A. Outdoor enthusiasts with minimal to moderate knowledge about certain outdoor activities who need a place to start exploring
 - B. Families planning vacations
 - C. Those more interested in lodging/camping vs. backcountry adventuring
- III. Data
 - A. Source
 - 1. Recreation.gov API
 - 2. https://ridb.recreation.gov/docs
 - B. Activities
 - C. Recreation Areas
 - 1. Include links
 - 2. Permit requirements
 - a) Permitentrances by facilityID
 - b) Links to permit sit -
 - (1) Links by facility ID
 - D. Facilities
 - 1. Campsites
 - 2. Hotels
 - 3. Reservations
 - E. Data for each of the above
 - 1. Addresses
 - 2. Links
 - 3. Media, ie pics/videos

IV. General Approach

- A. Schema
 - 1. Users
 - a) ID
 - b) First name
 - c) Last name
 - d) Email
 - e) Username
 - f) Password
 - 2. Activities
 - a) ID pk assigned based on API ID
 - b) Name
 - 3. Recreation Area
 - a) ID pk assigned based on API ID
 - b) Name
 - c) Address
 - d) Geolocation
 - 4. To be continued
- B. API issues
 - 1. There could be missing information
 - 2. Seems to be a need to do lots of cross referencing
 - a) This can be mitigated by storing entity IDs
- C. Sensitive Info
 - 1. User information
- D. Functionality
 - 1. Searching
 - 2. Viewing on a map
 - 3. Storing trip information
 - 4. Adding notes
 - 5. Linking to external sites to make reservations or access more information about particular facilities
- E. Flow
 - 1. Home Page
 - a) Can view/search by rec areas, facilities, activities
 - (1) Maybe provide specific suggestions?
 - b) Link to create user profile
 - c) Link to create a new trip on a form that will require login
 - (1) Name trip
 - (2) Dates of trip
 - (3) Link to add locations
 - (4) Link to add activities
 - (5) Link to facilities
 - (6) Link to add lodging/camping
 - d) Link to trips page

- (1) List of trips that are linked to detailed trip page
 - (a) Ability to add additional information
 - (b) Making notes about the trip
 - (c) Create a checklist
 - (d) Ability to invite others via email to the trip?
 - (e) Links to specifics allow notes to be added
- e) Link to perform a more detailed search
- f) Each search result links to a detailed information page
 - (1) Link to add to a trip
 - (2) Links to external resources

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