Scientists / Clients
Albert Ruhi
Dan Allen
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Meeting Date / Time
Zoom meeting on 01/28/2021 11:30 am CDT (9:30 am PST) (12:30 pm EST)

Interviewers / Roles
Mike Boisvert - Questioner
Jason Holtrey - Recorder / Summarizer
Zong Deng - Host / Moderator
Luke Johnston - Recorder
Emma Ryden - Questioner

Questions:

- What data should be collected during the login?
    - Do you want no logins? Do you want one login for all students? etc.
    - Name, description (student/volunteer/faculty/etc), email,
- What level of security would you like for this app? (If there's no username and password, then anyone can just go in and add or change information with no problem)
        - Proposed System 1: Each student is assigned a password/user id and a session id is associated with all students in a specific class. No registration.
    - Keeping track of class would be useful.
- Are there going to be a group of students on a trail or one student on a trail? Could we associate and separate each entire class or session with a single password/account?
    - Unknown, could be both. Pair of people? Co-surveyors? Secondary contacts associated with the data.
- Is it possible for a wet stretch of a stream to be neither pool or riffle? If so, how should the "other" option be labeled?
    - Third option would be good. Flowing, dry, muddy. Sensitive to interpretation. Sliders would make the data more complicated. Wet/Dry/Other(add details, require photo submission). They want to be as restrictive as possible to simplify the data analysis. Want to be able to do a quality check the 'Other'
- Should students/faculty be able to update or revise stream data after submitting? If so, should anyone not be allowed to update?
    - Keep raw data as is, but allow for revised data of their own data. Instructors will have the ability to edit everyone's data. They seem interested in a 'History' feature
- What is the end goal to record GPS locations? Of course POI's need it.
    - Do you want a path that records what the students have walked through during the survey session?

Yes they want the path history. Eventually they want to compare the path data to the data they already have.
    - Do you want the functionality to pre-define a path for the students to follow?
    - There is existing stream data that the student will try to follow, but there may be times they have to stray from the pre-set path. There would be a start and an end point. Assume the student knows where they're going. Automized waypoints.

- How is each section of a stream differentiated? Do you have a system in place?
    - ex: how are students going to search for different sections of a stream? Identifier code may be too complicated for this app. The GPS point tells us enough about what stream or section of stream. First iteration, fill in the blank "which section are you working on? "
- What ways can data be filtered? For example, by university, stream name, wet/dry, trail name, username, class/session id, etc?
    - All of those sound good. Priority is on the backend though. As long as we can get it to a CSV they would be happy. NWIS for example. Download/export all data between 2 dates.
- How do you want the users (students) to retrieve/search other users' data?
    - Pull out by project name or stream name. Or all from a specific 'site'. Drop down for this specific project because there is a set number of projects going on.
- Will the users be familiar with CSV data files? Any thoughts on CSV headers?
    - Assume users know what a CSV is. Add a txt file that comes with the export that explains the fields. Keep them simple.
- What data fields must always be completed, and which ones are optional?
    - Username, stream name, wet/dry. POI and pictures are 'nice to have'. Have POI be unique with id and information about the site, date, stream. Label that is automatically generated. Create POI button
- What is the role of photographs?
    - Photo at POI is most important. Keep it simple.
- What is the naming convention for each section of the stream?
    - There is no standardized naming convention. They want it to be **flexible**. GPS coordinates are most important. Beyond scope of class: no preassigned categories.

Questions for Team

- How to go about getting location information from a phone? (process of obtaining GPA (GPS?) location) Is it just phones? Tablets? Laptops?
- A way to avoid repeated POI creations. Check creations close to already existing POI's.

Questions Prof. Pastel asked

- For the gps tract, what is the minual distance interval for recording the lat/long?
- What metadata should be associated with a wet/dry track?

- the distinction between students and faculty. Do they have different roles? Can both see the same amount of data?
- no discussion about how users will retrieve or search the data.
- Probably the tracks will be downloaded as a CSV, you will want to determine the structure of the CSV. For example how many CSVs. What are the headers for the CSVs?