1/28/2021, 12:30 - 1:35 pm meeting. 2nd Scientist Interview, Zoom Meeting.

Action:

2nd Interview Scientist to gain information about the project.

Decisions:

National forest managers. Users will grow beyond the classroom.

Attendance:

Present:

Team: Host: Zong, Questioner: Emma, Mike, Recorders: Jason(summerizer), Luke Scientist: Dan Allen Scientist: Albert Ruhi Scientist: Michael Bogan

Next Step:

Create a design brief with Team at next team meeting Edit Notes.

Pre-Interview Questions - Luke Notes.

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 field(student, volunteer, undergrad v grad) participant type dropdown. email, contact info.

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.

keep track of the class, usernames with their own email.

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?

Not sure. It depends on when and where its being used. Realistically going to be used in remote locations, min pairs of people within a group.

potentially field as a copartner. like you enter their info as not recorders but still there people to contact if something is wrong.

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. so not a toggle between the two but it could be a slider(scale) difs in interpretation.

also could be toggle per option. so could toggle on all neither, other plus a text description.

if using other please upload a photo, (Create a POI?)

Should students/faculty be able to update or revise stream data after submitting? If so, should anyone not be allowed to update?

could keep raw data but then provide an option to edit but keep all the data togther. Make a new column for the updated data but it keeps old data to.

Each user could modify their own data, and the faculty for them are able to edit it.

Do they need approval for the updates?

No need to approve the update.

Each POI history, so we keep a copy of the old data and new data, Changelog of how the data was updated?

Timeline of the project. only pull new data but can see and restore/pull the previous data.

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?

Do you want the functionality to pre-define a path for the students to follow?

Want to keep the path history(YES). Snap it to existing vextor.

Goal is to walk the stream and follow the stream bed.

Start and stop point(GPS). Maybe show them on the map? Worried about confusion with walking

Up tributaries. STRETCH GOAL: GPS SAT MAP

GPS CheckPoints?? only provide direction when their could be confusion. Assume that the student relatively knows where to go

^^^ THIS SHOULD BE AUTOMATIC. MANUAL MAKES IT WORTHLESS.

Can a stream be both wet and dry? NOT ASKED

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? What ways can data be filtered? For example, by university, stream name, wet/dry, trail name,

username, class/session id, etc?

Feed it a GIS layer???? Identifier code for each segment?

Have a user entered tag?

Just have people pull their own data

User entered tag that can be pulled later.

Use our suggestions from the question above

As long as you can export the data we good. CSV file with waypoints, flowstatus,

images,....

some boxes for the query, filters. National weather servis example for filters and export. https://waterdata.usgs.gov/nwis/inventory Example from Ruhi ^^

How do you want the users (students) to retrieve/search other users' data?

Not as important to see other specific users data more important to see based on a location

want all data from x stream more imp than getting stuff from y user.

Search bar to see for tag? dropdowns?

BOTH. Dropdown to keep simple then search for later.

Maybe a MY DATA section to see just the data you have mapped.

Will the users be familiar with CSV data files? Any thoughts on CSV headers?

A blurb of what CSV is and what your downloading.

Names and headings for the data.

Make it as simple as possible but also informative.

RN they are skiping hte CSV file

Anyone whose downloading the File should already be aware of what it is and how to

use it.

.txt file that contains metadata for the CSV file.

What data fields must always be completed, and which ones are optional?

Required:

Stream Name, Username, Wet/dry,

Other(forces a POI)

Optional:

POI(site, date, stream, GPS point(maybe make some of it automatically filled in)),

Photos

Lab ID based on what theyre doing,

Emergency button for creating locals POIs, just so that they dont have to stop and fill in a bunch of info.

What is the role of photographs? Simple, Photos at POI most important

What is the naming convention for each section of the stream?

Naming for the sites. No standard for each little section.

Preassigned names?

Million dollar question?

drop down where they pick their local

then further drop down or fill in field for the specific local.

Prof would tell them before hand what to put in the field.

text prediction suggested fill in

WORKFLOW:

Back end defines the stream Start stop positions with a name.

Then the user can just choose that specific assignment based on what they are doing.

Leave open ended for now to add flexibility but could implement start stop points to help with confusion about route.

When the task is done it the back end might make a task.

Flexability to use the app anywhere

Assume that the Prof may not have the experience to add all this information. Turn on the app and go.

GAIA GPS they have been using to track data for points and notes.