Main goals:
- Mobile App
  - Easy to access
    - eliminate long login steps
    - quick login
    - all demographics
  - Easy to document
- (Website optimization)

Is there a pre-existing mobile app? Was using a mobile mapper which is more global with their data but the developer stopped supporting Mobile Mapper App. A larger scale app they are not going to use. Switched over to wordpress but there were incompatibility issues. Opted to be mobile friendly through the website.

How the app will work: A user will take a picture of an animal using the app, information about the current location will be filled in automatically in real time. If there is no service in the area, the information will still be recorded/saved and will then be uploaded once the user has available service.
- The form can be left blank
- Data can still be collected even without a photo by the use of descriptions
- Photo documentation is used for validation

App vs Website:
- App is intended to be real time data collected and have automatic population features
  - Drop down of Group > Species
  - Can record multiple at the same time
- The website is where you manually fill out the information

About having a mobile component: On the web version it is time consuming enough so that people aren't very satisfied with logging in and using a two step verification process. (15 seconds)

Suggestion ~ "A notification to submit a photo, could be something rare." When a user has made an observation submission it will be reviewed by a human to confirm what the finding was. In the meantime the submission, either with or without a picture, will be pending. It is a multistep process, once an observation has been reviewed, the user will be notified letting them know it was reviewed. (Team members also make comments on observations.)

Auto-population for county: Will auto-populate the county you're in based on county boundaries by pinging a particular cite(?)

Advanced Settings: A researcher may include information such as soil, air temperature, or weather. In the past, information settings were optional by the use of a toggle (advanced/expanded options vs simplistic/default options.)

Demographic: Elderly and children, scientists and citizen scientists

~ **"What do you see the role of this app being?"** It's all about data collection.

Documentation Availability:
- They will provide the database schema and API call to the database as well as additional notes
- Giant csv file that can be imported(?)
- Csv file has attached photos to it

???
- Data may not be in same format
- Goal is to upload data to atlas website
- 35 thousand online records and 300 thousand records from other collaborators and partners in gis format in a shape file
- "Scripts available to upload and merge into our database."
- ~ "csv file idea would be complex."

Past challenges:
- Issues with acquiring location
- Getting requests about the herp map/data set/data bases, a lot of time is spent trying to convert and combine data sets to be uploaded
- "Stalkers" burn up data allocations - need to modify that issue

Something David, *the scientist*, thought would be fun: ~ "By county or by watershed, looking at climate change and look at frog and toad call(?) surveys and look at trends. Earliest and latest trends that might be noticeable." (Functionality down the road to see the DNR data of Frog size trends.)

??? Explains how many observations have been recorded on the website since 2012

Activity map:
- Who's been contributing the most on a statewide basis.
- (DEMO) How many records in each locality which you can click on and it shows more info
- Records sort by species and not many records of localities

Diversity map: Shows distribution of species. How many by county have been recorded since the program started.

Tokenization: They thought about tokenizing, people who observe and enter the most get tokens.
- Unlock profile pictures
- Give people incentives

~ **"What specifications might a user sort by?"**
- Someone submitted an observation last week
- Searches by record number, year, species, county

Refresh duration: Daily, monthly, end of the day. (He didn't know.)

Chris... They have a website and database contact that can be contacted if needed.

Need to have:

Should have:

Want to have:
- "Location services would be nice to have."
- "Would like to use the csv data from the 335 thousand records."

Missi to Everyone

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Some of our biggest goals outside the ease of data entry is to keep engagement. Ideas like this are gold.

Also keeping it open to all. Anyone from a retired individual excited to contribute, neurodivergent contributers, children and their families, nature centers, researchers. Also a way to stay relevant in our ever evolving data systems.