APP IDEA

This app will be used by both professional and citizen scientists, students, and teachers to collect observation data of amphibians and reptiles around the state of Michigan. There is a website that allows users to view the database, and the clients are looking to develop an app to be used in the field to record the observations and store the observation data in a database. This app much be easy and efficient to use, usable without a stable internet connection, and auto-populate as much data as possible so the user can focus on only the critical information needed.

USERS

- Citizen scientists
- Scientists and researchers
- High school and middle school students
- High school and middle school teachers

This list came from the clients themselves in a summary document they provided. Given this wide range of users, there is also a wide range of possibilities for age and technological familiarity. The clients specifically mentioned older users, such as retirees, making observations. As such, there should be a focus on usability and making the UX as intuitive as possible.

USER GOAL TABLE

The goal for all users is the same: record a single observation of an amphibian or reptile and submit the observation to the Herp Atlas database. The main difference between the user is in the amount of information they would submit as part of their record. An example of this is given in the table below:

- HS/MS Teachers and Students - Less formally trained citizen scientists	- Latitude/Longitude - Date - Time - Contact info - Species information - Quantity - Picture
- More formally trained citizen scientists - Professional scientists	- Latitude/Longitude - Date - Time - Contact info - Species information - Quantity - Picture - Air temp - Habitat - Sky conditions - Moon phase - Elevation - Soil metrics