Post- Interview Notes

Motivation:
They would like a highly mobile application to track ash contamination.

Users:
- Scientists, Western United States, post-fire assessment teams (wildfire teams).
  - Should be easy to use.
- **When will it be used:**
  - On the field for analysis.

Wants:
- **Our Scientists:**
  - They would like to meet about every 2-3 weeks.
- **Map the ash after the fire**
  - Quantify how much.
  - Map how much will move to water systems.
    - So that if it happens, they can make a plan on what to do (not our task).
- Ash samples every 2-4 weeks.
  - **Measure and quantify:**
    - Change in ash properties colors over time.
      - One photo per plot ID every 2-4 weeks.
        - Standardize the way of taking the photo.
          - Allow the user to retake the photo if needed.
        - Geolocation with the date and time stamp.
        - The picture should include the ash scale on the side where the user can select the dominant ash color.
          - Also wants the user to have the ash color measurement in the picture on the ground next to the ash.
      - Choose the dominant ash color according to the Munsell soil color chart.
        - Currently, there are limited subjective ash color options.
    - Soil profile over time, ash fraction (affects the texture too).
    - Different depths- bulk density (color is related to bulk density).
      - Have an integer text box where the user will enter the depth measurement.
    - The description area is used to describe the details of the ash or the site in general, where they can also mention the moisture content.

- - **Helps them to identify (Not our task):**
    - How hot the fire was, how long it burned, the parent material, the degree of combustion, and its impacts.
    - Soil burn severity forms have data they use.
- **Uploading and Storing the Data:**
  - Mentioned to record and upload a CSV file with the plot ID.
  - They need a simple data upload.
  - We need to make sure the data saves without having an internet connection. Once the user has internet, the information should be sent to the database to be stored.

Current Procedure:
- They are using BAER Field Survey (Survey123).
- Their data goes to their database, which is online.

Questions
- When the scientists return to the plots to see the progression of the area, are they going to be taking pictures of the ash then as well to submit to the database?
  - Will you want this to replace the previous image for the plot ID? Or will the plot ID have multiple connected images, differing in the timestamps (every 2-4 weeks)?
- Logging in
  - Do we need different types of pages for the different users?
  - Will each user have a unique login?
    - Will you want each user to create their login? Or one account per team that everyone shares?
      - For individuals, you could then see who uploaded the data for that particular plot ID.
      - For one account for an entire team, you would not know who submitted it, but we could make an area to enter the user's name.

Send to Scientist
- App description
- Burn down chart
- A reminder of the next meeting