The app looks great! I've passed it around the lab for feedback and everyone really likes the layout and color scheme, it is a large improvement on the initial layouts. Also, everyone likes the ability to travel between data levels, and revisit existing sites. I've had a difficult time wrapping my head around how you sorted out data inheritance without forcing a linear hierarchy, good work man! I'm curious if Trip or Project data is populating the "Event Date" field? Because if we store the "Created Date" for a project we could in the desktop refine some neat data about the project's total trips and time span.

Using the samplingEffort column to store the project date

Below are the points which came up, please don't get discouraged by how many there are, I'm trying to be as thorough as possible. If you disagree with anything please let me know you have just as much say in any part of this this project as I do!

* When creating a new project, it would be nice if it persistently remembered the Primary Collector (presumably owner of the phone) and suggested it as a default value.
* After creating a new project, since a Trip must be created next it would be nice to disable the "Add Site and Add Specimen" buttons (like visible but grayed out?).
  + Collecting Form State
  + Similarly, after creating the first Trip for a project it would be nice to disable the "Add Specimen" button.
  + I believe this would help teach the user the general order of "Project > Trip > Site > Specimen." But maybe I'm being hopeful.
* In the TripPage We can remove the Group Photo button unless you really like it. Initially it was mostly present because the layout looked better with it.
* After saving a new Site, it would be nice to immediately go to the SpecimenPage with a new specimen under the newly generated site.
* There are concerns about the Set GPS button being easily forgotten, which are the most important data to gather.
  + One person suggested moving the button into the field entry area, somewhere high up and make the button highly visible.
  + Another suggested using a nag pop-up when the user tries to save the Site if the GPS was not set. I like this option, and if possible the pop up could have a "SET GPS NOW" button on it which just sets gps and then continues with the save function the user initially requested.
  + Finally, an alternative to above is we could just attempt to SET GPS If it is empty. I'm on the fence about this, because it makes it even easier on the user but could be a problem in rare cases when the user saves a site away from the site.
* In the SpecimenPage, The life stage list picker item text "Select A Life Stage" is hard to see on the background, it is not immediately apparent as a button to press. Added a custom renderer
* In the SpecimenPage, someone suggested that the "≥" symbol should be somewhere before or inside the Est. Quantity field so users know how it will be formatted later.
  + This data, when it makes it to the label is formatted as: "Approx. ≥ *n on site.*" I'll append an example label from the recent version of desktop if this helps.
* In the SpecimenPage, someone suggested buttons to hotkey "Est. Quantity" values, something like 4 buttons below the title (above or below the user entry field) which say  "≥10", "≥100", "≥500", "≥1000." These would just dump the proper value into the field quickly. This suggestion should not replace the optional user entry field.
  + Use a picker and textbox and make them mutually exclusive, firing Click event disables the other
* In the specimenPage, we can deactivate the SET GPS button. This is contrary to what I've said in the past, I apologize! We can talk more about this if you'd like but in the Desktop I'm removing the ability to edit specimen specific locality and forcing it all into site. I'd love your opinion on this because I'm not sure it is the best option. If you deactivate this for specimenPage I'd strongly suggest just removing the button and keeping the underlying functions in case we change our minds later.
* If possible, in the ExportProject menu after a selection is made form the list picker (for which project), it may be nice to automatically apply the "Export Project Data" function.
  + Auto apply on pick of project
* We need to consider a method which offers to delete project data after successful export
* The Field number should be composed of siteNumber-specimenNumber. Currently, it is displayed (at the top of sitePage and specimenPage) as siteName - specimenNumber. Users need to know the actual generated values so they can later associate the physical specimens to the rows of data in desktop. Those are the values they should write on the actual bags.
* We could, store the user's custom name for a site in the "locationNotes" field and remove locationNotes as a user entry option. This would allow us to display the site name as well as the siteNumber & allow for unique site# generation for returning site visitations. Additionally, this opens up the option to offer desktop users to add those custom site names to their locality descriptions.
  + If you like this option, when adding a new site we can change Site name to "Site Nickname" and we could suggest the site number as the default name for it, to avoid the requirement of a custom unique site name being entered by the user each time.
* When editing a site after it was saved, after pressing the "SAVE SITE" button it says "Need all info to save Site!" and does not save it.
  + Was an issue with the data checks on the site page under editing = true (double check)
* When selecting a specimen to edit, It would be nice if they listed the site they were from. This could be the user's custom name.
* In the specimenPage, After selecting "SAVE SPECIMEN" the title does not update the field number. For example, if I click it numerous times it may say "specimen SPECIMEN 10 saved" then "specimen SPECIMEN 11 saved" while the title at the top still says "site name -SPECIMEN9".
  + Ideally, I like this going to a new specimen after saving one so you could do a bunch in a row. This looks like the way it currently works but in addition to updating the specimen# in the title at the top, clearing the user entry fields is also necessary.
* The desktop version really wants a site specific row to be exported from the mobile. Currently it identifies those rows by having a "#" in the specimenNumber column.
  + That row is basically all the data which would be inherited to specimen records and is blank for specimen specific data fields.
  + This row helps me group up stuff by site and gives us the ability to add new specimen records to a site from the desktop.
    - The use case for the "new specimen" from the desktop function is when a collector takes site level data, labels a bag with the site number then stuffs many different plant collections into the same bag and IDs them as they pull them out of the bag (and adds new specimen records as they pull.) This method of collecting is common for people like John and Dr. Shaw.