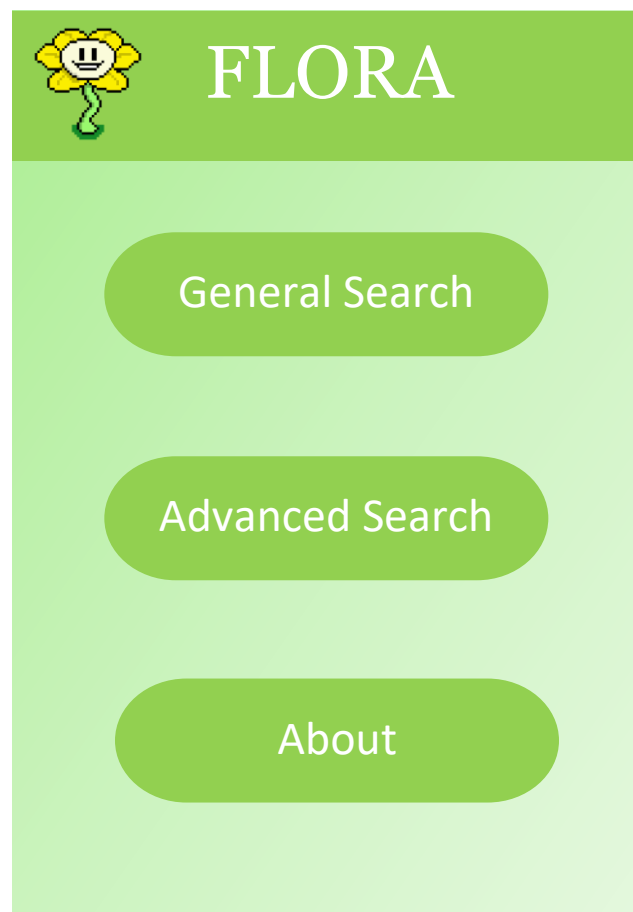# Initial Ideas for Flora Application

This is the initial prototype for the layout and services provided by the Flora application. This could change drastically as we talk to customers and begin working on the project, but this gives us a prototype to show to the customers to elicit feedback. Also, the name Flora is not final. I am open to other suggestions though I do like the name Flora.

## Home Screen
The current home screen provides two services, a general search and a more advanced search. The general search will allow users to search for a category of organisms such as canine, beetle, spider, tree, etc. The advanced search is more for biologist or other wildlife experts. It allows the user to search for organisms using the kingdom, phylum, family, genus, etc. Depending on the databases that we find these searches might have to be changed.

We can add additional features to the home screen if the need arises. For example, we could add a About tab that explains how the app works. Below is a rough layout of the home screen. The layout is not final.

## General Search

The general search will allow the user to use their current location or select the location to view organisms in that location. The search will have a category drop down that will contain animal, plant, fungi, etc. These are broad categories, so there will be a type drop-down bar that allows the user to select a more specific type within the chosen category. For example, if the user selects plant in the category drop-down bar they can then select cacti in the type drop-down. Irrelevant types will be eliminated from the type drop-down bar. For example, if the user selected animal then cacti will not show up in the type drop-down bar. The will also be a date drop-down bar that will show the organisms that are in that location for the chosen months (for migratory animals).

It would also be neat to have a check box that allows the user to search for poisonous and/or endangered animals.

| Location ▼ | Category ▼ | Type ▼ | Date ▼ |

## Advanced Search

The advanced search will also allow the user to use their current location or select the location. The search bar will look like the general search bar but will have kingdom, phylum, class, order, family, genus drop-down bars instead of category and type. The user does not need to make a selection from all bars in order to perform a search. For example, if the user wants to view organisms within a class, they only have to make a selection from kingdom, phylum, and class. The drop-down bars also remove irrelevant information. If the user selects the plantae kingdom then the phylums displayed will only belong to plantae.

## Information Displayed

When the user preforms a search, the app will display general information about the organisms that match the users search. This includes general name, scientific name, a picture of the organism, date/season in location, size, etc. The user can click a Wikipedia link to view more information about the organism. Each organism displayed from a search will be in its own block.

## Final Thoughts

These are the initial thoughts of what the app should do and how it should be organized. Feel free to add your thoughts on any additional functionality or improvements to the functionality/design of the app.