DOCUMENTATION – FLUTR
USER NEEDS

CLIENT: MR. NATHAN BROCKMAN
ADVISOR: DR. DIANE ROVER

Group Members

Amanda Friis - Full Stack Developer, Documentation

Tayler Barnhart - Team Leader, Cloud Integration

Nathan Geater - Full Stack Developer (Back End)

Alex Brown - Full Stack Developer (Front End)

Muralikrishna Patibandla - Integration & Back End Developer

Problem Statement

Butterfly gardens around the globe complete the same process as each other every day. Gardens will release butterflies into their habitats at least once per day, they then have to record the species of butterfly they released and which shipment they came from. Despite this being such a common process across all of the institutions in the world, they don't all record things in the same way. Enter Nathan Brockman and the people of Reiman Gardens. Years ago, a Senior Design Group made an application called reimanbutterfly.com. This app supplied the entomologists of Reiman Gardens with a tool that allows them to track their shipments, mark butterflies as released, and generate a report for the USDA at the end of the year.

Nathan at Reiman Gardens has decided that their current solution is far outdated and needs to be completely redesigned. He also wants the platform to be generalized so that any institution that he grants access to can use the software and the process can be standardized across the world.

An additional benefit of this software is that with the butterfly data already collected, it can easily be formatted into a guest facing page that displays fun information about the location's butterfly habitat. We can display things like a butterfly of the day, special notes from the entomologists at that location, and statistics about which butterflies are present in the habitat.

In addition to the app, we will also be overhauling Reiman Gardens Kiosk that will display our completed project. This will be a Reiman specific part of the project, but can pose some interesting problems. The case we have to build in is incredibly limited in terms of space, will be kept in an environment of 80℉ and high humidity.

Intended Users

For our project, we have 3 main users - Global Admin, Local Admin, and General Users.

Global Admin (GA)

Who is this?

In our system, we plan to have only 1 Global Admin - our client Nathan Brockman. The GA is someone who knows the system well and oversees the use of Flutr around the world.

What are their needs?

The Global Admin needs a way to oversee the flight houses and the butterflies in them. The difference between the GA and the Local Admin is that the GA also gains the ability to service other flight houses (each run by an LA). The GA can create new flight houses under the Flutr system for LAs to use for their flight houses.

What do they gain?

From this, the global admin gains the ability to easily control the work of other flight houses and LAs. This includes the ability to add new butterflies and their photos, as well as manage the databases of each house. This helps solve the problem of a lack of admin system in the previous system, where the creation of other flight houses was tedious and the control from the GA was very limited.

Local Admin (LA)

Who is this?

A local admin is either the leader or a worker of any butterfly garden that the Global Admin has registered into the system.

What are their needs?

Local Admins need to be able to enter their shipments, "pull" butterflies from those shipments and release them into their garden, update the common name and estimated lifespan of a butterfly species, update the look and information of their customer facing page and add more LAs to their own garden's page.

What do they gain?

The LAs gain a sense of uniformity between all butterfly houses that use Flutr. They also gain good record keeping tools and a way to organize their information in a fun and interactive ways for their guests.

General Users (GU)

Who is this?

General users are guests at the butterfly garden. They don't require any sort of login, this is just the default page, expected to be accessed from either the kiosk or on the guests personal mobile devices.

What are their needs?

GUs want to learn about the butterflies that can be found at their location, get fun facts about the location and be provided with an overall good user experience.

What do they gain?

GUs gain knowledge about the butterflies surrounding them. They also receive fun facts and some specific information from LAs in the form of the "Note".