sddec24-11 Client: Nathan Brockman Advisor: Dr. Diane Rover

O1 User Needs

General Public

- A quick and engaging way to learn about the butterflies in the flight house
- The Kiosk with security features and QR codes to prevent unauthorized access.

Entomologists

- An easy way to track butterflies that come into
- the house
- An easy way to export data to spreadsheets to report to the USDA

Team Members:

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- Amanda Friis
- Alex Brown
- Tayler Barnhart
- Nathan Geater
- Piper Ideker

Requirements Flutr

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Pavilion Administrator

- Add, edit, and delete shipments
- Add butterfly releases
- Customize their home page

Solution Overview

Flutr Application:

Develop an application for pavilions that provides data tracking. Then use that data to display interesting facts and statistics to guests. Thus improving their experience by forming a stronger connection with the pavilion.

Reiman Kiosk:

Build a new computer for Reiman Gardens to fit within the existing case.

02

- Create, edit, deactivate employees
- Import and export shipment data Super Administrator
 - Create pavilions
 - Create and edit master butterfly list
 - Export data from pavilions

Guests

- View pavilion home pages
- View butterfly gallery

Data Tracking

• Track number of butterflies in flight

Kiosk

- New computer/touchscreen fits existing case
- Has adequate cooling for constant high heat and humidity
- Kiosk users are unable to leave Flutr
- Computer shuts down at close and restarts in time for opening

Application Solution

- A React based frontend
- Connected to a MongoDB backend with Springboot controller
- Hosted on DigitalOcean





