



Lightning Talk 2: User Needs & Requirements

FLUTR - TEAM 11



PROJECT OVERVIEW

Problem -

- There is no easy way to track butterflies released into a flight house!

Why Is It Important? -

- Employees - Tracking all of the butterflies by hand is hard!
 - Remembering the name of every single released butterfly to write down later is very difficult
- Visitors - Seeing butterflies flying around you is fun, but you don't feel connected
 - Being able to learn about each butterfly in an easy way makes things much more interactive

USER NEEDS

Admin Type Users:

- Need to be able to enter butterfly shipments and releases
- Set Common names for individual species
- Change Estimated Lifetime per Species per location

General Public Type Users:

- Learn neat things about the butterflies
- Get specifics about the butterflies present at their location

REQUIREMENTS

Butterfly Tracking:

- Track/add/edit shipment providers and individual shipments in a database.
- Update predictive lifespan data and delete end-of-life butterflies automatically.
- **Intuitive and quick logging interface for release** and documentation for training and reference.

General Public Experience:

- Engaging platform for accessing butterfly facts and statistics.
- **Kiosk with improved cooling and sealing to operate in high humidity and temperature conditions.**
- Kiosk with security features and QR codes to prevent unauthorized access to admin functions and enable on-site learning.

Customization and Maintenance::

- Separate management and user access levels to allow houses to independently manage their own systems and staff.
- **Website customization options for each flight house** to tailor their tracking systems.

ENGINEERING STANDARDS

IEEE Std 1063-1987: Standard for Software User Documentation

- Applicability
- Purpose
- Document Usage
- Conventions
- Problem Reporting Instructions
- Instruction Mode
- Glossary

Important to provide clear and helpful documentation for other pavilions

Is updated and expanded for each software version released

CONCLUSIONS

- **Flutr**: Easy recordkeeping - shipments and releases
- Website for both a butterfly house and the public
- Virtual + Physical: **Weatherproof kiosk** for the public
- Customizable website themes, unique to each organization
- Follow the correct engineering standards