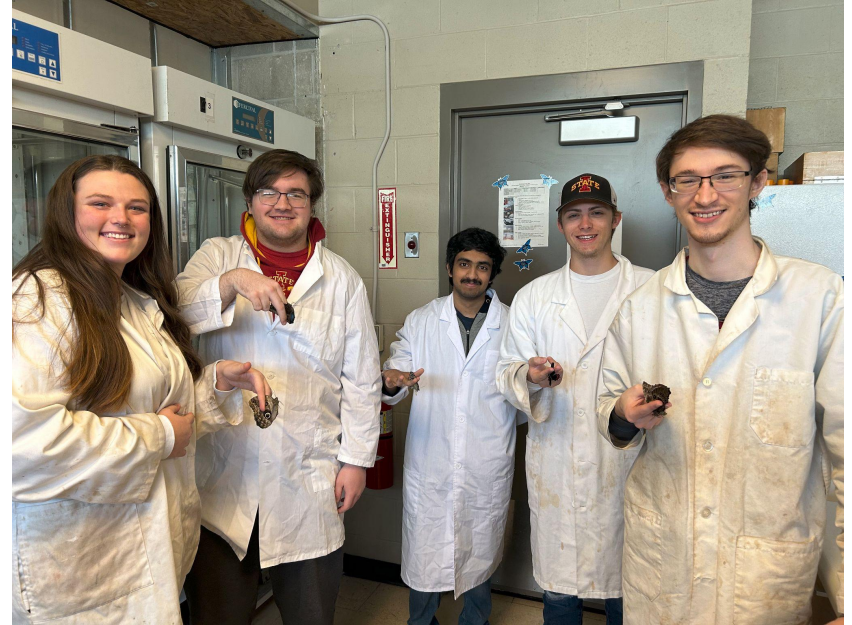# Lightning Talk 1: Problems & Users

FLUTR - TEAM 11

PROBLEM OVERVIEW

- The existing RG Butterfly app requires rebuilding.
- Track butterfly shipments and releases for the Christina Reiman Butterfly Wing, share data with the public.
- The goal is to create a new application with a shared backend for global institutions and individualized frontends
- Multilingual support is desired for global usability.
- The kiosk in the Butterfly Wing was damaged during COVID. Replacement parts and rebuilding of the unit is needed.

PROBLEM STATEMENT

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

Flight houses around the world all release hundreds of butterflies into the flight house for visitors to see. The current systems in place at Reiman Gardens and other flight houses are outdated, inefficient, and lack the all-round capability to effectively track butterflies, educate visitors, and offer high-level customizability. We hope to design a user-centric solution that streamlines tracking, visitor experience, and offers efficient and customizable interfaces for various flight houses to adapt to their specific needs.

LIST AND DESCRIPTION OF USERS

<u>Rockets, Johnny</u>:

- Lab Assistant at Reiman Gardens
- Releases Butterflies ~2 times a day

<u>Joe, Average</u>:

- Is visiting Reiman gardens
- Wants to know about the butterflies they're looking at.
- Could be anyone, adult, child, elderly

<u>Fly, Butter</u>:

- Lab worker at a location OTHER than Reiman gardens
- Does essentially the same thing as Johnny, but could have different process to get there.

USER NEEDS

Employees -

- An easy way to track butterflies that come into the house
    - Shipments and releases can contain hundreds of butterflies!
- Access to a database of butterflies they've received and released
    - Must report shipments to the FWS (Fish & Wildlife Service)

Visitors -

- Cool ways to learn about the butterflies in the flight house
    - Charts, graphs, pictures, and maps
- Interact with the butterflies in the house
    - Search for "what butterfly is that?"
    - Use the kiosk in the house to view the Flutr website

CONCLUSIONS

Butterfly houses have many issues with databasing all of the releases they do. They need a simple way to track those releases, and use that data to create cool and exciting graphs and charts of the butterflies in the house.

Both the employers and the users have need for a central database of all of the butterflies flying in the house. Because of this, we plan to create a central database, as well as 2 unique interfaces for this database, for both the employees and the visitors to use.