



Lightning Talk 7

FLUTR - TEAM 11



Before turning in, DELETE THIS SLIDE!! This is just for reference for the areas we need to talk about. Good: Social Responsibility, someone else choose The Bad

Areas of Professional Responsibility

Area	Description
Work Competence	Perform work of high quality, integrity, timeliness, and professional competence
Financial responsibility	Deliver products and services of realizable value and at reasonable costs
Communication honesty	Report work truthfully, without deception, and understandable to stakeholders
Health, safety, and well-being	Minimize risks to safety, health, and well-being of stakeholders
Property ownership	Respect property, ideas, and information of clients and others
Sustainability	Protect environment and natural resources locally and globally
Social responsibility	Produce products and services that benefit society and communities

From the reading "Contextualizing Professionalism in Capstone Projects Using the IDEALS Professional Responsibility Assessment"

PROBLEM OVERVIEW

Flutr is an all-in-one web app for flight houses that aims to aid both flight house employees and visitors, each with their own goals.

For employees, Flutr will allow for easy tracking of both butterfly shipments as well as releases. As employees receive shipments and release butterflies into the pavilion, they will be able to mark off which butterfly was released, in order to keep consistent tracking of the butterflies they release. They will also be able to track which butterflies had a failed cocooning. Employees will have the ability to edit past data, and export tracked data to spreadsheets to report to the FDA.

For visitors, the tracked data will be taken and formatted into a user-friendly interface that allows for easy learning about the butterflies in the pavilion. The landing page will include statistics like butterfly locations, the rarest butterfly in the pavilion, a “butterfly of the day”, and more. Visitors will be able to learn about each butterfly they see, with the hopes of creating a more enjoyable user experience.

The Good: Social Responsibility

Relevancy to our Project

As our project primarily deals with creating a service that directly benefits both employees of Reiman Gardens and the general public, this is arguably our most important area. As such, we have to focus a large portion of our planning on how we can make Flutr the best we can for users in a beneficial way.

Our Approach

Because of the importance of this area to our project, we will be actively working with our client and users to shape Flutr in a way that directly benefits them the most. Actively working with users allows us to make the right choices every step of the way for the users.

The Good: Social Responsibility

Our Approach Upholds Ethical and Professional Responsibilities

Our solution can benefit the employees of pavilions by simplifying daily tasks, providing a way to easily report data to the USDA, and creating a way to track butterfly data. This data can be used to improve butterfly care.

Further, our solution benefits guests by giving them a way to connect personally to the butterflies through interactive elements. This is conducive to creating an environment that can both inspire and teach guests.

The Bad: Property Ownership

Relevancy to our Project

Our client would like to be able to pull statistics from all of the organizations that sign up to use our sites. This is purely for comparison purposes and statistics. The data that he would have access to is NOT anything that could be harmful to the users for him to have.

Our Approach

With Nathan as the overall administrator of Flutr, this could be a good thing. Flutr is all about record keeping for butterfly gardens. Imagine a spotify wrapped like end of the year summary of how many butterflies all of the gardens released in that year.

The Bad: Property Ownership

Changing Our Approach to Better Uphold Ethical and Professional Responsibilities

We will need to prioritize full disclosure of data use, by ensuring that all flight houses are fully informed about how data is collected, used, and accessed. By providing clear and accessible information about Nathan's role and data access, we can implement strict controls to ensure that superuser capabilities do not compromise data in any way.

Further, we could require explicit consent from organizations before their data is accessed, and provide transparency reports detailing access.

Our Ethical Concerns

Our primary Ethical Concerns come from the our worries revolving around Property Ownership of the data collected using our application.

- Once again this data is relatively low risk and not something we are overly worried about as long as we disclose this.

Could potentially have an environmental concern if our kiosk solution doesn't have adequate cooling.

- If the system cooks itself and needs replaced, that is not only an Environmental issue, but could be Economic as well.
- We are going for a low power, low profile Raspberry Pi System with lots of cooling fans to mitigate this issue.