**EE/CprE/SE 491 Weekly Report #02**

**Reporting Period: February 7 - February 13**

**Group Number: 05**

**Project Title: Global Reiman Butterfly App**

**Client: Nathan Brockman (mantisnb@iastate.edu)**

**Advisor: Ashraf Gaffar (gaffar@iastate.edu)**

**Team Members:**

>    **Bailey Wanders**
>    **Samuel Sells**
>    **Johann Guepjop Megaptche**
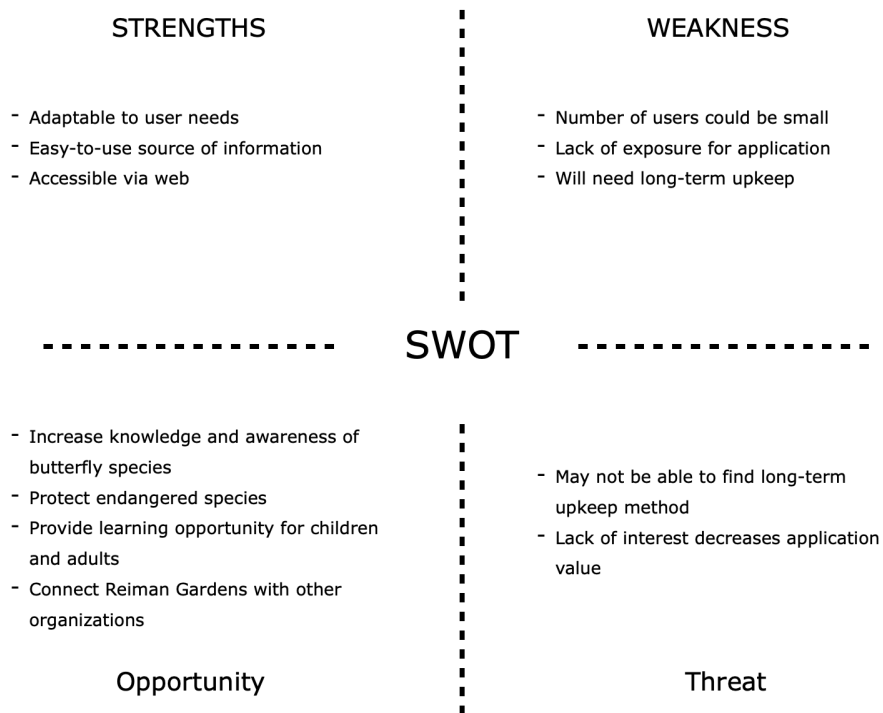>    **Caleb Donavon**

**Weekly Summary**

       This week the team continued to establish contact with the client and the faculty advisor. They set up a time to meet with Professor Gaffar in the second half of the week. At this meeting, the general outline of the project, what resources have been provided, and plans for the upcoming week were discussed. The team also obtained more resources about the project from Nathan Brockman. This included the existing GitHub repository, the DigitalOcean server, and a Trello Board from a previous team working on this project.

       Team members took time to look over these resources and familiarize themselves with the project and what progress previous teams had made. Team members talked with the Senior Design professor and agreed that because this project has already been started, one important goal for this team is to fill in the gaps that previous teams were not able to fill.

## Accomplishments From Past Week
- Met with Professor Gaffar and provided overview of project - Team
  - Discussed previous work on project
  - Discussed some goals for the upcoming week(s)
- Created plan to meet with client to clarify parameters and limits of project - Team
- Got set up with GitHub and began analyzing the previous teams project to understand it -Sam
- Conducted SWOT analysis for existing butterfly tracking application - Bailey

**STRENGTHS**
- Adaptable to user needs
- Easy-to-use source of information
- Accessible via web

**WEAKNESS**
- Number of users could be small
- Lack of exposure for application
- Will need long-term upkeep

**SWOT**

**Opportunity**
- Increase knowledge and awareness of butterfly species
- Protect endangered species
- Provide learning opportunity for children and adults
- Connect Reiman Gardens with other organizations

**Threat**
- May not be able to find long-term upkeep method
- Lack of interest decreases application value

- Researched and gathered information regarding User-Centered Design - Bailey
  - User-centered design (UCD) is an iterative design process in which designers focus on the users and their needs in each phase of the design process. In UCD, design teams involve users throughout the design process via a variety of research and design techniques, to create highly usable and accessible products for them.
  - Four general phases include; understanding the context of use, specifying user requirements, design solutions, and evaluating against requirements
  - Researched how this information could be used for this project

**Pending issues (if applicable)**

No issues at this time


**Individual Contributions**

| Name | Individual Contributions | Hours This Week | Hours Cumulative |
|---|---|---|---|
| Caleb Donavon | Meeting with advisor | 0.5 | 2 |
| Johann Guepjop Megaptche | Meeting with advisor | 1 | 1.5 |
| Samuel Sells | Meeting with advisor | 1.5 | 3 |
| Bailey Wanders | Meeting with advisor, user-centered design research, SWOT analysis | 3.5 | 4 |


**Plans For the Upcoming Week**

- Be granted access to all source code and resources from the client
- Research various design methodologies
- Complete team initiation contract
- Meet with client to further discuss expectations and goals of the project
- Research pros and cons of web-hosting and cloud-based applications
- Spend enough time with the code to be able to understand it

Johann Guepjop: Take a look at the github repository for the current Butterfly app

**Weekly Advisor Meeting Summary (If applicable/optional)**

February 10, 2022
At the weekly meeting, the team advisor was given a brief overview of the project and what has been done so far. All those in attendance discussed potential design methodologies and deployment options. Plans for the upcoming were also recommended and established. The next scheduled meeting is pending further research by team members. The team is hoping to establish a regular meeting schedule as soon as possible.