# Butterfly Longevity Tracker

*Weekly Report 1 (8/26/24 - 9/18/24)*

## Project Information

- Project Title: Global Butterfly Longevity Tracker
- Group Number: sdmay25-03
- Client: Nathan Brockman
- Advisor: Maruf Ahamed
- Team Members:
  - Alex Herting - Full-stack Engineer
  - Andrew Ahrenkiel - Full-stack Engineer
  - Charles Dougherty - Frontend Developer
  - Jaret Van Zee - Backend Engineer
  - Carter Awbrey - Visionary

## Summary

This week we had 3 main accomplishments, creating our Discord server, meeting with our client and meeting with our advisor. When we made contact with our project client we met up in person to discuss the project. Over the course of the meeting we discussed the previous solution to the problem and its shortcomings, the needs of the new product and what the client would like added and got hands-on experience using the old product in the butterfly atrium to better understand the needs of the client. We wrapped up this meeting by agreeing to meet every other Monday at 2:00pm at the Reiman Gardens, and planned on putting together a project proposal in time for the next meeting. After that meeting we also met up with our project advisor Maruf Ahamed in his office and briefly introduced ourselves and made future plans to meet up.

# Accomplishments

- ## Alex
  - Researched products and brainstormed ideas for potential technologies that could be used for our project.
- ## Andrew
  - Started to brainstorm ideas for possible technologies to use in our project. This includes the need for a front-end framework and whether it would bring a benefit to the web app compared to non using a framework.
  - Possible database design has also been researched; finding the best provider for our certain table/collection and querying needs could boost performance. Addressing this with the group and finding if we want a relational or non-relational database will be the first step of answering this question.
- ## Charles
  - Brainstormed different software to use for frontend and backend functionality
  - Collaborated to set up and attend meetings with Nathan and Maruf
- ## Jaret
  - Sent out initial communication to Nathan and Maruf
  - Built a discord server for communication between the team, supervisor, and clients.
  - Drafted up team contract for team to follow.
- ## Carter
  - Helped set up the Discord server.
  - Communicated with Nathan Brockman to schedule an introductory meeting.
  - Communicated with Maruf Ahamed to schedule an introductory meeting.
  - Added a readme file to the GitLab repository.
  - Helped write and format the weekly report.

# Pending Issues

- Brainstorm Project Ideas
- Decide on Project Technologies and Plans
- Prepare a project report in time for  Sep 23, 2024
- Setup Gitlab repo for Frontend and Backend
- Setup project website
    - Add Project Description
    - Add Team Information

# Individual Contributions

| NAME | Individual Contributions (Quick list of contributions. This should be short.) | Hours this week | HOURS cumulative |
|---|---|---|---|
| Alex Herting | Brainstormed and researched products that we could implement into our prototype. | 3 | 6 |
| Andrew Ahrenkiel | Brainstormed possible technologies to use. Worked on a Product research document to find potential solutions that already exist. | 3 | 6 |
| Charles Dougherty | Research possible software solutions, collaborated to set up meetings | 3 | 6 |
| Jaret Van Zee | Created Discord server for team, clients, and supervisor. Wrote up a team contract draft. | 3 | 6 |
| Carter Awbrey | Helped create a Discord server. Helped create the weekly report. Helped plan and coordinate meetings with project clients and advisors. | 3 | 6 |

# Future Plans

Team will meet within the next few days to begin creating a project proposal. This will be completed in time for 9/23 for the meeting with our client Nathan Brockman. The project Proposal will include general design of the web app along with deciding what technologies to use. Technologies used will include front-end frameworks, backend frameworks, database providers, hosting services, and more. Identifying the criteria we want each section to meet will help us select the proper candidate for each section. Upon completion of a well-rounded proposal we will be able to start assigning new work to each team member in relation to what role they would like to fill on the team. This will begin service and technology research for our specific criteria and use case.

Meeting with the client will give us insight into design requirements and possible changes. The design of this project will be ongoing and changing week to week based on new criteria the client wants us to meet. We hope to fully set up the GitLab work board and start posting issues/tickets and tracking our progress. This will allow us to have experience similar to the Agile workflow that is present in today's Software Engineering career roles.