

Butterfly Longevity Tracker

Weekly Report 8 (11/1/24 - 11/7/24)

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

In the front end, we continued to clean up more of the screens and ensured that everything looked right. We are now beginning to add navigation between screens to the site. We also continued researching different theming options and plan to start implementation next week.

In the back end, we created a butterfly sighting API endpoint and butterfly creation endpoint, which correctly structures and sends the data to MongoDB.

The team worked to complete Design Document 4, which solidified questions about technology usage and setup. The simplicity of the design is clear and addresses the needs of the client. The road map and questions have been updated to follow the design documentation.

Accomplishments

- Alex

- Created Technical Complexity Analysis
- Collaborated to complete Design Doc 4
- Worked on slides for Lightning Talk 6
- Worked on Design Check-in In-class Reflection
- Continued looking into fixing frontend screens

- Andrew

- Worked to complete Design Doc 4 design and visuals portion
- Collaborated to complete the Lightning Talk 6 Presentation
- Brainstormed to develop database collection management schema
- Continued to work on Frontend views to adapt for mobile devices

- Charles

- Created Journey Map
- Collaborated to complete Design Doc 4
- Worked on slides for Lightning Talk 6
- Worked on Design Check-in In-class Reflection

- Jaret

- Created Pros & Cons table
- Worked on Lightning Talk 6
- Worked on Design Doc 4
- Project Research

- Carter

- Created Add Sighting API for the backend
- Created Create Butterfly API for the backend
- Worked on Design Doc 4 sections 4.3.3 - 4.5

Pending Issues

Frontend

- Tweak CSS to deliver correct responsive screens
- Connect screens using javascript
- Implement calls to the backend to load data

Backend

- Configure SSL encryption
- Implement authentication system
- Create a standardized tagging system converter
- Setup and Create Unit Tests
- Containerization of the server
- Create User Objects in the Database and Start
- Add Fingerprints to Specific Database Actions
- Add MongoDB Validation rules to ensure that new data isn't duplicated
- Add tag generation for sites for available tag systems

Both: Setup Integration Tests

Individual Contributions

<u>NAME</u>	<u>Individual Contributions</u> (Quick list of contributions. This should be short.)	<u>Hours this week</u>	<u>HOURS cumulative</u>
Alex Herting	Design Check-in, Lightning talk 6, Design doc 4, frontend screens	3	34
Andrew Ahrenkiel	Design Doc 4, Lightning talk 6 presentation, frontend screens	3	34
Charles Dougherty	Design Check-in, Lightning talk 6, Design doc 4	3	31
Jaret Van Zee	Design Doc 4, Created Pros+Cons table, Lightning Talk 6. Continued research on AWS.	3	28
Carter Awbrey	Create Butterfly API, Add Sighting API, Design Doc 4	4	30

Future Plans

For the front end, we plan to continue improving UI responsiveness until we get it to a point where it will be able to work on all phone/computer screens. In the future, we will present our screens to our client to get their review on the responsiveness of the screens in order to ensure satisfaction. To get to this point we will need to focus heavily on altering and tweaking the CSS that was generated, as well as identify common issues and document how to fix them. This is going to help speed up the process so that we can have a non-functional design prototype ready for our client.

For the backend, we plan to finish implementing the endpoints for simple object creation, deletion, and querying. After that, we will likely move on to creating our model for user authentication and our plans for authenticating API requests with specific user access control. We must also create our unit testing infrastructure and begin implementing unit tests for all our features.