

Butterfly Longevity Tracker

Weekly Report 7 (10/25/24 - 10/31/24)

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 worked on correcting the styling and responsiveness of the screens exported from the Figma board. These screens were imperfect and had several errors that needed to be corrected because the tools were not powerful enough, and the figma board we were given was not well made. We also started looking into possible theming options for different facility colors.

In the backend, we finished creating the records for butterflies and sites and their corresponding database connectors so that we can move on to creating the API endpoints in Spring. In addition we also started experimenting and researching the implementation of our various APIs.

Accomplishments

- Alex

- Looked through Andrew's findings of common errors within our frontend styling so I can apply changes to other pages with the same errors.
- Worked on fixing frontend screens that were transferred from the figma board using PxCODE.
- Worked to complete the design doc part 3: project planning
- Worked to complete the detailed design lightning talk slideshow

- Andrew

- Worked on the PxCODE generated HTML views (AdminHomePage specifically) to adapt them to our needs. This included styling changes for resizing to mobile and desktop and ensuring the view on all mobile devices is functional. Also added features and styling for button classes that each view can follow.
- Worked on completing the design doc part 3: project planning
- Worked to complete the detailed design lightning talk slides
- Worked on creating a better Gitlab environment with our issue page and code flow.

- Charles

- Collaborated on design doc part 3: project planning
- Finished detailed design lightning talk slides
- Researched implementation of different themes for the website
- Looked into spring implementation into the frontend

- Jaret

- Started and collaborated with Lightning Talk 5
- Worked on and reviewed Design Doc Part 3: Project Planning
- Worked on data standards and governance policies
- Researching AWS hosting services

- Carter

- Collaborated to complete lightning talk 5.
- Added proposed Milestones, Metrics, and Evaluation Criteria to Design Doc Part 3.
- Added additional functionality to the database connectors for mongoDB on the backend.
- Implemented rudimentary repository endpoints for simple backend API features.
- Researched adding various security features to the backend, including authentication and SSL encryption.

Pending Issues

Frontend

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

Backend

- Discuss and form API specifications and broader project architecture
- Configure SSL encryption
- Implement authentication system
- Create a standardized tagging system converter
- Setup and Create Unit Tests
- Containerization of the server

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	Learned from Andrew's changes, starting applying that knowledge to other screens, design doc 3, detailed design lightning talk	4	31
Andrew Ahrenkiel	AdminHomePage rework, Lightning talk presentation, Design Doc Part 3, Gitlab changes.	4	31
Charles Dougherty	Detailed Design Lightning Talk, Design Doc 3, Theming research, Spring in Frontend	3	28
Jaret Van Zee	Design Doc part 3, Lightning Talk 5, Data standards, research AWS hosting	4	25
Carter Awbrey	Design Doc Part 3, Lightning Talk 5, Database Connectors, Spring Security Research.	4	26

Future Plans

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. For the front end, we will continue improving the screens' responsiveness. This process will take lots of trial and error to get the design to an acceptable state.