

# Butterfly Longevity Tracker

*Weekly Report 6 (10/18/24 - 10/24/24)*

## 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

Throughout the week, we worked towards completing the class assignments, which included Design Document Part 2: Requirements, Detailed design and visuals, and Lightning Talk 4: Project Planning. We presented this week, so as a team we met on Sunday to practice presenting and made all necessary adjustments to our presentation to ensure that it was professional. We also met on Friday, outside of class, to discuss what we wanted to work on as well as where we were at with our current work. We have a good plan set in place for our future as well as how we are going to manage all of our work. On top of all of this, we have officially pushed our bare-bones frontend code to our repository. This code is not yet functional, but it gives us a solid foundation that will need some tweaking. We also researched more about the Spring framework we are using for our backend and created a plan on how we can best utilize all of its functionality.

# Accomplishments

- Alex

- Exported all Figma board screens to code and pushed them to our GitLab repository
- Contributed towards completing Design Document Part 2: Requirements
- Participated in the creation and presentation of our lightning talk

- Andrew

- Contributed towards completing Design Document Part2: Requirements
- Collaborated towards the completion of the lightning talk 4 slides and presentation
- Collaborated and completed the Detailed Design and Visuals assignment through the use of Figma

- Charles

- Collaborated to complete slides and present lightning talk 4
- Assisted on Design Document Part 2: Requirements
- Continued to work on frontend server communication
- Worked on Detailed Design and Visuals assignment

- Jaret

- Collaborated towards building slideshow and presenting lightning talk 4
- Reviewing the Design Document 2
- Begun working on data standards and governance policies for the data that is to be stored.

- Carter

- Collaborated to complete lightning talk 4
- Worked on adding Sites and Users to the database and connecting them to the Spring Server
- Figured out how to server dynamic webpages using Spring
- Figured out how to store icon images in MongoDB

# Pending Issues

- Work to fix all of the issues that arose with transferring code from the Figma board.
  - Make the design adaptable to all screen sizes
- Discuss how we would like to structure the data we're storing in our database.
- Discuss and form API specifications and broader project architecture.

# Individual Contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours Weekly</u>	<u>HOURS Total</u>
Alex Herting	<ul style="list-style-type: none"> <li>• Project Planning Presentation</li> <li>• Design Doc: Requirements</li> <li>• Convert figma to code</li> </ul>	4	27
Andrew Ahrenkiel	<ul style="list-style-type: none"> <li>• Project planning presentation</li> <li>• Design Doc: Requirements</li> <li>• Detailed Design and Visuals Assignment</li> </ul>	4	27
Charles Dougherty	<ul style="list-style-type: none"> <li>• Lightning Talk 4 Presentation</li> <li>• Assisted on Design Document Part 2: Requirements</li> <li>• Frontend Server Communication</li> <li>• Detailed Design and Visuals assignment</li> </ul>	4	25
Jaret Van Zee	<ul style="list-style-type: none"> <li>• Begun working on Data Governance and Standards spreadsheet</li> <li>• Building and presenting Lightning Talk 4 presentation</li> </ul>	3	21
Carter Awbrey	<ul style="list-style-type: none"> <li>• Lightning Talk Presentation</li> <li>• Detailed Design and Visuals assignment</li> <li>• Spring HTML serving</li> <li>• Worked on Creating Sites on Backend</li> <li>• Worked on Creating Users on Backend</li> <li>• Worked on Theming on Backend</li> </ul>	2	22

# Future Plans

For the frontend, we plan to work on fixing all of the adaptability issues that come with exporting a Figma board. This will be quite a bit of tweaking, as we will have to play around with the generated code to make it more responsive to various screen sizes. We will also have to create some of the screens that the tool to export the Figma board could not handle.

For the backend, we plan to finish the database connectors for our MongoDB documents and repositories. Then, we need to work on implementing the APIs for the front end to be able to manipulate data on the backend. We've already started work on the butterfly creation and butterfly sighting APIs, but they are far from finished. In addition to the actual data manipulation APIs, we also need to work on serving the web content using Spring or decide to use a static website instead of dynamic content on the backend.