Butterfly Longevity Tracker

Weekly Report 4 (10/4/24 - 10/10/24)

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 continued work on building our project. One of our primary focuses was trying to get MongoDB set up and connected to our Spring backend server. In addition to the development work, we also made sure that everyone was able to get their development environment set up for backend development, which entailed getting set up with the proper Java JDK and IDE. Alongside our core project work, we collaborated on a presentation to better define our users' needs. This helped us create a formal list of requirements, ensuring our project aligns with user expectations and keeps the team focused on shared objectives.

Accomplishments

- Alex
  - Continued working on transferring over figma board to code using PxCode.
    - Researched more ways to fully utilize PxCode to ensure a smooth transition to code.
  - Tested the backend server to make sure that it was running properly on my device.
- Andrew
  - Continued to analyze the workload difference between transferring Figma design to HTML and recreating Figma board from the ground up code.
  - Looked into free alternatives for PxCode, but it was decided we should be able to use PxCode free of cost
  - Contacted client to give small update rather than a group meeting
  - Tested Carter's implemented backend and created a test controller to ensure the spring implementation works
    - Created two test requests in Postman and set up a group collection on Postman for our project
- Charles
  - Collaborated with team to complete the lightning talk two slides
  - Worked on the User Needs and Requirements assignment
  - Set up and test server environment and existing HTML to investigate the next needed steps
  - Researched and started implementing receiving spring server information from the backend on the frontend
- Jaret
  - Worked with team members to work on the lightning talk slides.
  - Begun working on setting up the back-end environment for eventual development
  - Worked on user needs assignment by writing requirements that the project will need to follow
- Carter
  - Setup MongoDB test server with mongoDB Atlas.
  - Created a user and gave access to the mongoDB server to the other users of the project.
  - Connected and pushed our database connection code to our server repository.

Pending Issues

- Update our team website
    - Add Project Description
    - Add Team Information
- Continue transferring over all of the Figma screens to code
    - Continue learning how to fully utilize PxCode
    - Try to limit the amount of repeat code produced by the transfer
- 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

NAME	Individual Contributions	Hours Weekly	HOURS Total
Alex Herting	Figma board to code, testing backend, helped define user needs and requirements.	4	20
Andrew Ahrenkiel	Figma board code transition, testing backend, contact client	4	20
Charles Dougherty	Lightning talk 2 slides, User Needs and Requirements, Researching frontend server implementation	4	17
Jaret Van Zee	Testing backend, user needs and requirements, lightning talk slides, and research of back-end implementation	4	16
Carter Awbrey	Created Test Database and Connected Database to Server Component. Wrote summary for report 4.	7	20

Future Plans

For the frontend, we will export our Figma board into code and then deploy it to a branch. We will have to make changes to the frontend code because the tools available are not powerful enough to correctly export the Figma board in the way they are intended to look. We hope to rework the code to match the desired look as closely as possible. We plan on presenting our finished frontend code design to our client in order to ensure his satisfaction.

Most of these changes will ensure sizing changes and configuration work properly. The web app needs to work on any device from mobile to desktop and how the app resizes each view will be our main worry.