sddec22-01 | Jack-o-Lantern Tracker
Weekly Report 9
04/10/2023 - 04/16/2023

Client
Nathan Brockman
Advisor
Judith Islam
Team Members
Kyle Goben – *Team Lead, Frontend*
Kiara Sta. Maria – *Frontend*
Omar Muhammetkulyyev – *Backend*
Phuoc (Johnny) Nguyen – *Backend*

Weekly Summary

During the week of Apr. 12th, we met with the advisor and discussed the progress of our team in the class overall. We updated them with our latest working model of the volunteer side of the application, which was mostly focused on functionality rather than aesthetics for now. Our advisor provided us with positive feedback telling us that the team is on track with what we are supposed to be doing in the first term of the senior design class.

Regarding the documentation aspect of the event from our previous meeting, we decided that it would be best to include a help button in our application that the volunteers can use to see an instruction manual on how to use the app rather than providing the documentation on the details of the event itself. This is mostly because the volunteers who choose to help run the event will already be introduced to it by several other means like the invitation emails and video tutorials prepared by the event organizers.

Pending Issues

I. *Team's Work Progress*

- ○ Build up and improve upon the diagrams.
- ○ Continue to create screen sketches for the admin side.

II. *Individual TODOs*

- Kyle
  - ○ Continue to work with image classification experts to improve the current AI weight model produced by TensorFlow.
  - ○ Put endpoint onto admin side to let admin change the week - UI
  - ○ Endpoint onto admin side for stencil status modification - UI
- Omar
  - ○ Go through more Tensorflow tutorials as time allows
  - ○ Research on Next.js - more on the React side rather than server-side request handlers.
- Johnny
  - ○ Continue to work with Kyle to prepare SQL queries to create, update and filter the data from the Database.
  - ○ Research on AI stencil recognition with TensorFlow.
  - ○ Research how to code on React/Next.js.
- Kiara
  - ○ Update screen sketches for the admin side to get feedback before adding more details.
  - ○ Compile requirements in a unified, comprehensive document
  - ○ Research on how to code on React/Next.js.

Individual Contributions

	Tasks Accomplished	**Hours this week**	**Hours total**
Kyle Goben	- Meeting with the team and advisor. - Send emails to the Client and Advisor. - Image recognition research - Hackathon that included research on NextJS - Deployment opinions research - Weekly Report 9.	8	77
Omar	- Meeting with the team and advisor. - Playing with Tensorflow tutorial for CNNs - Weekly report 9 (weekly summary).	6	61
Kiara Sta. Maria	- Meeting with the team and advisor. - Pull the latest updates in the local environment. - Weekly report 9.	6	62
Phuoc Nguyen (Johnny),	- Meeting with the team and advisor. - Work with Kyle to prepare SQL queries to create, update and filter the data from the Database. - Research on AI stencil recognition with TensorFlow. - Weekly report 9 (advisor meeting summary).	6	62

Plans for Next Week

Next team meeting on Apr 18th (Tue) – *Everyone*

- Discuss the work that has been completed since our meeting on Apr 12th.
- Talk through what we found out about AI models
  - Look into Kyle's basic AI model and discuss ways to improve
- Review the front-end prototype for admin web pages and find ways to make improvements to further develop the design.
- Review the backend side with the overall project structure.
  - Figure out what other handlers we need for the backend admin side
  - Continue working on the admin web pages

Next client meeting on Apr 18th (Tue) – *Everyone*

- Show our updated admin web page Figma design.
- Ask for possible improvements.

Summary of Advisor Meeting

April 12, 2023

During last week's advisor meeting, we discussed all the technical documents that we have, and we also talked about the plans for the final presentation. Some notes during the meeting include:

- Updating Report 5: The advisor asked the group to update Report 5, as there was a misunderstanding in the weekly summary regarding the online meetings during the Spring Break. The advisor clarified that we would meet in person bi-weekly till the end of the semester.
- Progress update: The advisor went through all the technical documents and assessed our progress. The advisor felt that the group was on the right track and encouraged us to continue our good work.
- Spirit in the Gardens event: The advisor expressed interest in how volunteers came to know about the Spirit in the Gardens event. She also wondered how the admin invited volunteers to participate in the event every year.
- Help button in the app: The advisor suggested that the group should consider having a help button in the app. This would provide users with instructions on how to use the app. The group discussed the possibility of creating a User's Manual after finishing the implementation of the web application.

In summary, the meeting covered various topics related to the group's progress, the importance of clear communication, and the need for user-friendly features in the app. The group is expected to work on the suggested updates and report back to the advisor in the next meeting.

The next Advisor Meeting will be on Apr 26th, 2023, at 1 PM.