
sddec22-01 | Jack-o-Lantern Tracker

Week 3 Report

2/13/2023 - 2/19/2023

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

This week, we met after class on Tuesday, Feb. 14th to discuss our prototypes on both front-end and back-end development. We also talked about the clarifications we got from the last meeting with the client and how it would affect our application design. The next day, we met with our advisor Judith Islam in her office where she provided us with some feedback on our front-end design choices, architectural pattern and suggested that we should have an Entity-Relationship Diagram for our SQL database.

During the rest of the week, we had our team VM setup for us thanks to Kyle's request to ETG. We also functioned in groups of two where Kyle and Kiara got started with the different pages of the front-end prototype while Johnny and Omar worked on the ER diagram for our tables and relationships among them.

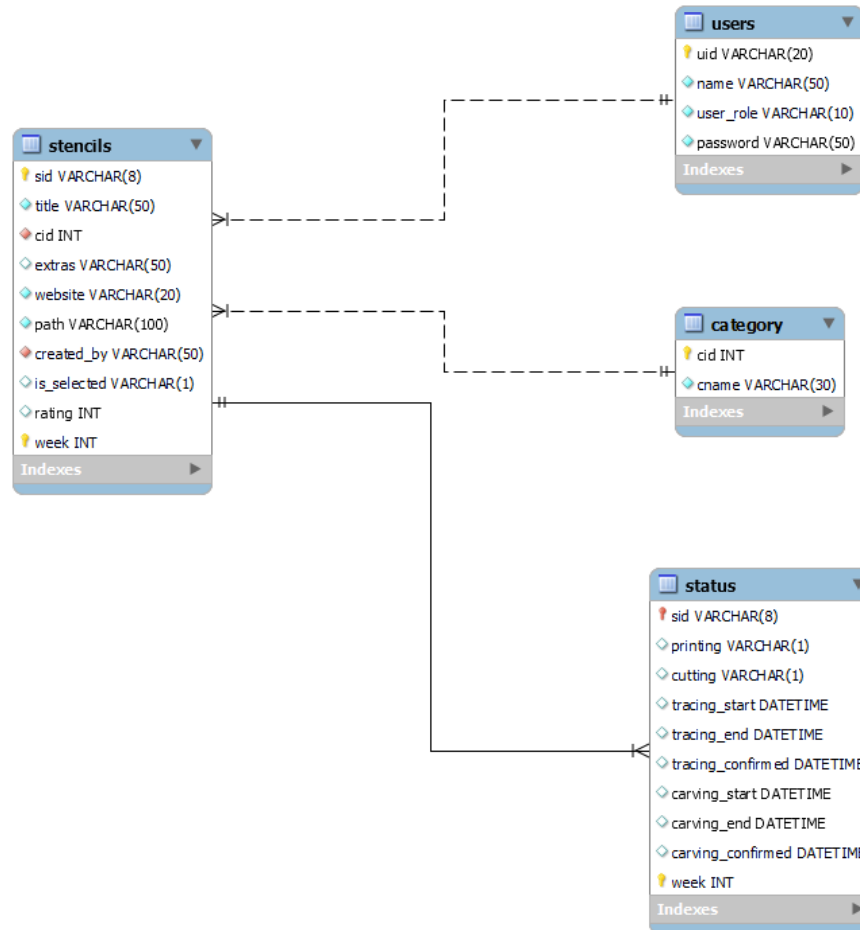


Figure 1. The ER Diagram of our initial database design. This design will be improved in the upcoming weeks based on feedback from the team, client, and advisor.

Pending Issues

Unable to get CI/CD pipeline working (Kyle)

- Need to re-register GitLab runner with our virtual machine.
- Do extensive research on best ways to deploy our code
 - Currently using a docker container
- If unable to get working, contact Simanta Mitra about help setting this up
- Set up CI/CD to run when a branch is merged with main to always have an up to date version on our server

Individual Contributions

	Tasks Accomplished	Hours this week	Hours cumulative
Kyle Goben	<ul style="list-style-type: none"> ● Sent emails to Client and Advisor. ● Met with Simanta Mitra to discuss design ideas <ul style="list-style-type: none"> ○ Got feedback about the security of the app ○ Talked about ways to group pumpkins together by person ○ Plant a cookie on their device with a unique identifier ● Set up environment and generated five pages with navigation buttons between them ● Created template API calls to change the link between pages. /search, /end, /home. These can be changed ● Researched ways to deploy app ● Requested and set up VM given by tech services ● Deployed the template website to the VM ● Our current deployment can be accessed at http://10.24.84.221:3000/ ● Researched CI/CD pipelines and how to implement them with GitLab. ● Tested and tried to get a pipeline to auto-deploy code ● Generated the Report 3. 	10	22
Omar	<p>Meeting with the team and advisor. Create the SQL script and ER diagram. Weekly report summary (Report 3). Researched NodeJS and how to get started with backend request listening.</p>	6	18
Kiara Sta. Maria	<p>Meeting with the team and advisor. Worked with Kyle to create a prototype and set up the front end. Re-organized report layout and proofread (Report 3).</p>	6	18
Phuoc Nguyen (Johnny)	<p>Meeting with the team and advisor. Create sample data in SQL and generate the ER diagram from the database. Researched about Spring MVC model and how to integrate it with our backend.</p>	6	18

	Compile notes from the advisor meeting (Report 3).		
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Plans for Next Week

Next team meeting on Feb. 21st (Tues) – *Everyone*

- Discuss the work that has been completed since our meeting on the 14th.
- Review the front-end prototype and find ways to make improvements to further develop the design
- Review the ER diagram and suggest necessary tweaks on the tables and relationships between entities.

Next client meeting on Feb. 21st (Tues) – *Everyone*

- N/A

Front End – *Kyle and Kiara*

- Have a list of all possible use cases and features associated with the app. From here, try to have screen sketches set up even for the admin side.

Back End – *Omar and Johnny*

- Work with Kyle and Kiara on the front-end needs for admins to determine the back-end API for these needs.
- Create UML diagrams for the project.
- Get started with the server side and set up sample endpoints.

Individual TODOs

Get CI/CD pipeline working (Kyle)

- Need to re-register GitLab runner with our virtual machine.
- Do extensive research on best ways to deploy our code
 - Currently using a docker container
- If unable to get working, contact Simanta Mitra about help setting this up
- Set up CI/CD to run when a branch is merged with main to always have an up to date version on our server

Set up the CI/CD pipeline to also auto-generate our .sql server. (Kyle)

- The .sql file will be on our repo so that it can be deployed with our code each time.
- Start up the .sql server and generate some data about a few pumpkins
- Research ways to take spreadsheet data about the pumpkins and import it into the SQL server

Research how to work with SQL database in NodeJS (Omar)

- Watch tutorials on how to make a connection
- Learn the conventions used when setting up the query functions

Create UML diagrams for the whole project. (Johnny)

Summary of Advisor Meeting

February 15, 2023 (2nd advisor meeting)

We met with the advisor on Wed, Feb 15th, to discuss the progress of the senior design project. The advisor started the meeting by discussing the importance of weekly reports that will help the group assess their progress and identify areas that need improvement. There is a group website to upload the report every week, but we did not know, and the instructor may not give us access to that website yet. She wanted our team to check with the instructor about their group website. The website helps her keep track of all the reports and documentation we have during the semester.

The next topic was about creating a UML diagram for the project. The advisor emphasizes the importance of creating a clear and concise diagram that accurately represents the project. The advisor suggested we create some UML Diagrams to give her and the client an overview of our team's activities.

The advisor also suggested that the group limit the number of colors used on one screen to three. This will help maintain a consistent and professional look throughout the project. She suggested we use the standard ISU color scheme or Halloween-themed colors.

Finally, the advisor suggested that the group break down the problem into smaller parts and try to solve them every week. This approach will help the group make progress on the project and avoid getting overwhelmed.

Action Items:

- Create UML diagrams for the project.
- Update the prototype and limit the number of colors used in one screen to three.
- Check with the instructor about their group website.
- Break down the problem into smaller parts and work on solving them every week.

The next advisor meeting will be on Wednesday, March 1, 2023.