

sdmay19-44: Circuit Drawing and Simulation App/Website

Week 5 Report

February 11th - February 17th

Client: Andrew Bolstad

Advisor: Andrew Bolstad

Team MembersLuke Maring — *Report Manager*Joe Veal — *Back end coder*Alex Sutton — *Scribe and Meeting Facilitator*Cassie Plata — *Front end coder*Keegan McCarthy — *Team Leader*Tyler Schurk — *Front end coder***Summary of Progress this Report**

A working branch has been made in gitlab for a prototype with a canvas instead of an iframe. This has simplified our drag and drop, as well as our download. It has removed all security issues and will make future feature implementations easier as well.

Pending Issues

We are currently running into issues of whether or not the wires will be able to attach onto components and also how to incorporate the download feature into Django.

Plans for Upcoming Reporting Period

We are planning on continued implementation of the download and save features as well as the wire functionality.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Luke Maring	Continued fix of monitor size difference. Using different methods to test out which leaves monitor area looking the best for each monitor size.	3	10
Joe Veal	Began to work with our save feature. Started drafting code to save an image to our database. This section will require more work on the django side.	3	16
Alex Sutton	This week I began creating user authentication on the website. I researched a few different ways to provide this authentication and conferred with Joe on the	4	17

	approach to incorporating these ideas into the website. We ultimately chose to implement a new "Save" button and so I began working on this implementation.		
Cassie Plata	Switched to using a Canvas instead of div type for our draw space, and integrated Tyler's test.html functionality with our current website's template successfully. Also added labels to newly dropped circuit components and added functionality of saving the canvas' circuit as a .PNG file with the download button.	8	20
Keegan McCarthy	Worked with Tyler Schurk and started looking for/devising plan for wiring functionality of the circuit simulator. We understand that this will be the hardest aspect to implement.	4	13
Tyler Schurk	Started to research different ways to implement wiring of components. The existing drawing library appears to offer some functionality when it comes to having a line attach to shapes. Will continue to research this more and determine if a custom function needs to be created outside of the main fabric.js file.	5	18

Gitlab Activity Summary

Gitlab push made for working branch. This branch has a canvas implementation instead of an iframe. As more bugs are worked out we will look to merge this to our master branch
