Title: *Math Whiz-ard*

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Who:
- Logan Park
- Zach Wrubel
- Alex Ojemann
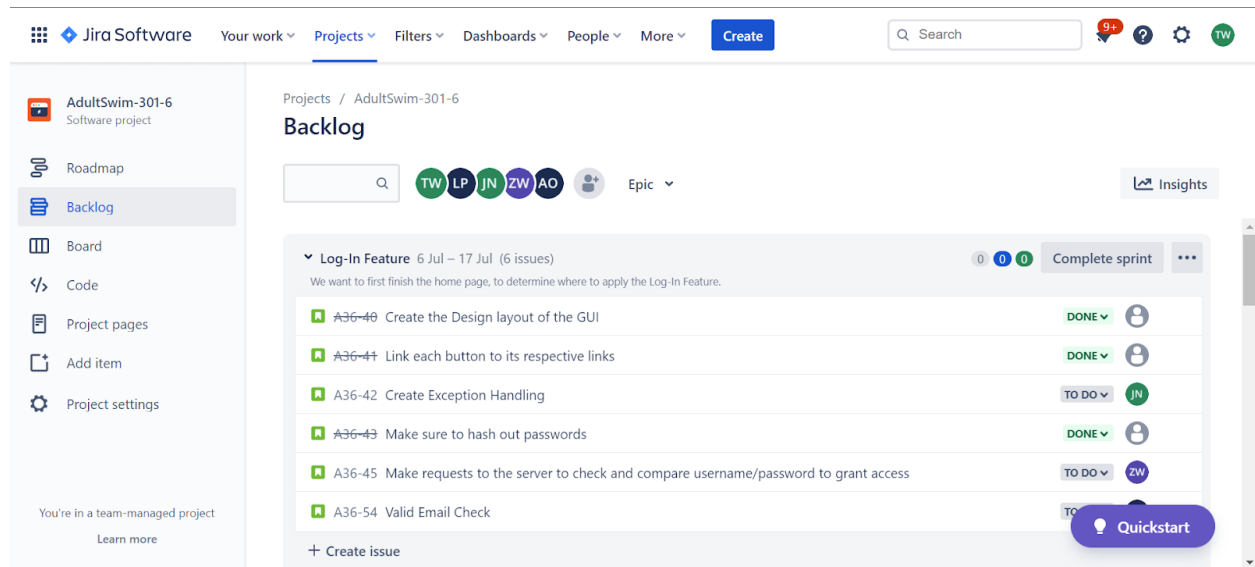- Tim Wilson
- Jon Noranbrock

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Project Description: A 200 word summary of the project.

At first, when we were brainstorming our ideas for the project, we were thinking about a couple things: We wanted to create something that was free, simple, effective and accessible. We brainstormed a few ideas about what web app could perhaps fit into this category while being the most useful. That's when we encountered our idea for *Math Whiz-ard*. Many websites for math practice required payment, and were rather difficult to use for kids. Many of these sites required the guidance of parents and had a paywall, and we wanted to break some of those barriers and make it more accessible.

Math Whiz-ard is a web app that allows users to practice basic math problems. Intended mainly for kids in elementary or middle school, *Math Whiz-ard* is a web app that can help improve grades and test scores. Unlike Pearson practice tests, our product allows the user to practice as much or as little as they need to feel comfortable with the subject. Users can choose from an array of problem types, including: addition, subtraction, multiplication, division, fractions, algebra, and decimal operations. Users will be shown the correct answer if they are wrong and once they are done will be shown their score and a short list of problems they got wrong. Lastly, like we have mentioned before, the UI is clean and simple; it is easily understandable and accessible for all, and the best part of the entire package is that there is no paywall!

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Project Tracker: (Trello, Asana, or similar tool.)

https://csci-3308-summer1-6.atlassian.net/jira/software/projects/A36/boards/1

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Backlog

🔍 [search]   TW LP JN ZW AO   👥   Epic ⌄   📈 Insights

⌄ Log-In Feature 6 Jul – 17 Jul (6 issues)   0 0 0   Complete sprint   •••
We want to first finish the home page, to determine where to apply the Log-In Feature.

📗 A36-40	Create the Design layout of the GUI	DONE ⌄	👤
📗 A36-41	Link each button to its respective links	DONE ⌄	👤
📗 A36-42	Create Exception Handling	TO DO ⌄	JN
📗 A36-43	Make sure to hash out passwords	DONE ⌄	👤
📗 A36-45	Make requests to the server to check and compare username/password to grant access	TO DO ⌄	ZW
📗 A36-54	Valid Email Check	TO	

+ Create issue

💡 Quickstart

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VCS: Link to your git Repository

https://github.com/CSCI-3308-CU-Boulder/3308Summer21_300_6

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Contributions:

Team Member Name & Description of Contributions	Screenshots of GitHub Commits
Alex: Most of my work was on the problems html pages and the corresponding javascript. Zach and I developed the addition page for which we used as a template for the subtraction, multiplication, and division pages. I also developed all of the features of the fractions and decimals pages that differed from the addition page and the feature of the algebra page that allows for different operators. In addition to working on the problems pages I developed an option for the user to view their score and quit their current problem set which takes them to a screen that shows them their score as correct/attempted and as a percentage and displays a few problems that they	

missed with their incorrect answer and the correct answer. Apart from that I created the *Math Whiz-ard* logo and home logo, cleaned up some aspects of the design, and made a version of the postgres user name feature that we didn't end up using in the final version of the project (this was never committed to our GitHub repo).

Commit			
Update README.md · aloj7980 committed 10 days ago	Verified	e4c2151	<>
Update fractions.html · aloj7980 committed 10 days ago	Verified	c3f95b9	<>
Update decimals.html · aloj7980 committed 10 days ago	Verified	2c7dc07	<>
Update About_Us.html · aloj7980 committed 10 days ago	Verified	e2e6727	<>
Update main_menu.html · aloj7980 committed 10 days ago	Verified	3928fd9	<>
Added score() function and disabled next button until an answer is su... · aloj7980 committed 10 days ago	Verified	00422de	<>
Added view score & quit button and incorrect problem form · aloj7980 committed 10 days ago	Verified	e6bd1c3	<>
Added view score & quit button and incorrect problem form · aloj7980 committed 10 days ago	Verified	b81fa0b	<>
Added score function and disabled next button until an answer is subm... · aloj7980 committed 10 days ago	Verified	c3ae8f7	<>
Added score() function and disabled next button until an answer is su... · aloj7980 committed 10 days ago	Verified	2f9f063	<>
Added view score & quit button and incorrect problem form · aloj7980 committed 10 days ago	Verified	36788c0	<>
Added score() function and disabled next button until an answer is su... · aloj7980 committed 10 days ago	Verified	f9d8709	<>
Added view score & quit button and incorrect problem form · aloj7980 committed 10 days ago	Verified	6d2fa2e	<>
Added Score function and disabled next button until an answer is subm... · aloj7980 committed 10 days ago	Verified	1940262	<>
Added view score & quit button and incorrect answer form · aloj7980 committed 10 days ago	Verified	f5dce4c	<>
Update decimals.html · aloj7980 committed 10 days ago	Verified	961b179	<>
Added score() function and disabled next button until an answer is su... · aloj7980 committed 10 days ago	Verified	cbac5f8	<>
Added score button and form for missed problems · aloj7980 committed 10 days ago	Verified	66ee666	<>
Update fractions.html · aloj7980 committed 10 days ago	Verified	64aa332	<>
Fixed button positions and score() function and disabled next button ... · aloj7980 committed 10 days ago	Verified	f582b6c	<>
Added "View Score & Quit" button and added incorrect answer display e... · aloj7980 committed 10 days ago	Verified	deb800e	<>
Added Score Function · aloj7980 committed 10 days ago	Verified	77d9547	<>
Added Home Logo to top left corner · aloj7980 committed 24 days ago	Verified	d8a8843	<>
Added Home Logo to top left corner · aloj7980 committed 24 days ago	Verified	30bf720	<>
Added Home Logo to top left corner · aloj7980 committed 24 days ago	Verified	a170e77	<>
Added Home Logo to top left corner · aloj7980 committed 24 days ago	Verified	8af628e	<>
Update New_User.html · aloj7980 committed 24 days ago	Verified	d046fd2	<>
Added large logo image on right side · aloj7980 committed 24 days ago	Verified	99c999d	<>
Fixed buttons that didn't work · aloj7980 committed 15 days ago	Verified	acf978d	<>
Made buttons smaller and added logo image · aloj7980 committed 17 days ago	Verified	4de58a3	<>
Moved submit button back to center · aloj7980 committed 17 days ago	💬1 Verified	b553285	<>
Changed numbers to 0-11 · aloj7980 committed 17 days ago	Verified	68f09bc	<>
Division UI updates · aloj7980 committed 17 days ago	Verified	f25aa31	<>
Changed division to whole numbers only and resized font · aloj7980 committed 17 days ago	Verified	818e6c7	<>
Delete New_User.html · aloj7980 committed 17 days ago	Verified	d03448a	<>
Fixed Submit button glitch · aloj7980 committed 17 days ago	Verified	29b8dce	<>
Added New_User.html · aloj7980 committed 17 days ago	Verified	5f7703d	<>
Added New_User.html · aloj7980 committed 17 days ago	Verified	b984f78	<>
Added fraction subtraction, multiplication, and division · aloj7980 committed 17 days ago	Verified	c67c41f	<>
Added changeProblem() function and Next button · aloj7980 committed 26 days ago	Verified	62c5f92	<>
First working version of fractions.html (only does fraction addition) · aloj7980 committed 19 days ago	Verified	82a89a6	<>
Fixed button spacing issue · aloj7980 committed on Jun 17	Verified	a09e73e	<>
Added Fractions, Decimals, and Calculus options to main menu · aloj7980 committed on Jun 17	Verified	39b08be	<>
Fixed .000000001/.999999999 answer glitch · aloj7980 committed 19 days ago	Verified	936f016	<>
Added decimal subtraction · aloj7980 committed 19 days ago	Verified	635369c	<>

Jonathan: Added the show password button. Also added Regex catch for email and password on registration to prevent bad (poorly written) passwords and emails from being inserted into DB. The catch displays a green checkmark when user's inputs are valid.

Worked on PGSQL and getting connected via pg-promise and db.queries. Functional login, registration pages are available at the below links.
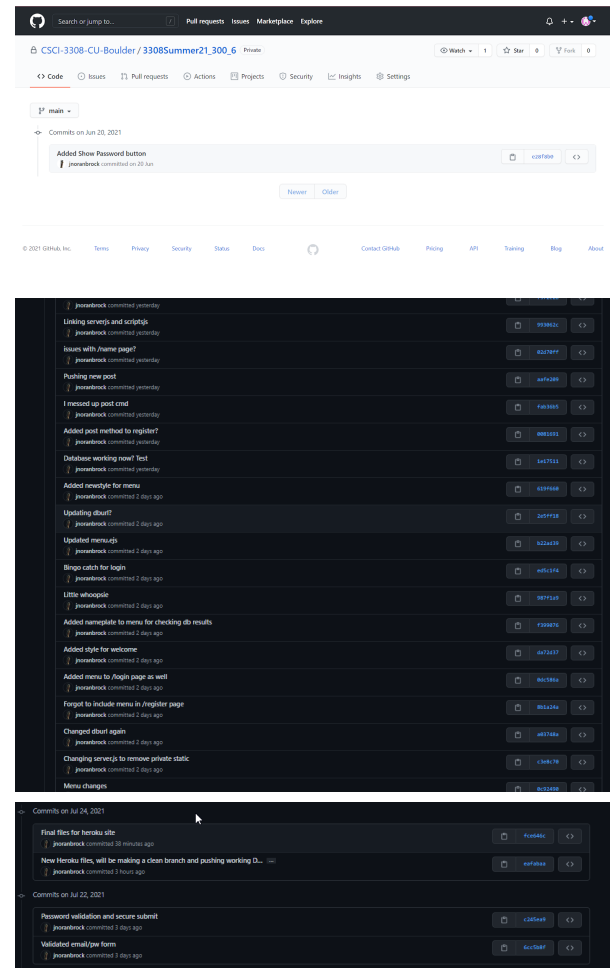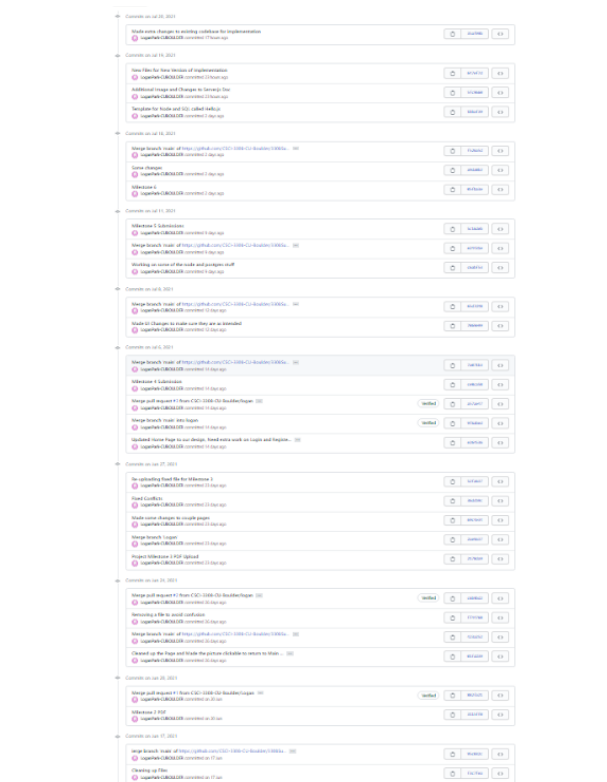https://mathwizard.herokuapp.com/login

https://mathwizard.herokuapp.com/register

The app is a different version that has minor changes to database connection settings and quality of life adjustments for queries.

The Github branch for this app is located below for convenience.

https://github.com/CSCI-3308-CU-Boulder/3308Summer21_300_6/tree/jon/Heroku

Logan: Worked on front end and back end, and additionally filled in whichever role/feature was needed. Worked Front End: (Javascript, HTML, CSS) Back End: (JS, Node js, PostgreSQL, EJS, AJAX)	
Tim: Worked on front end stuff with html and javascript. I set up basic templates and cleaned up and added functionality. Set up the website to function on docker and then heroku. Helped a little on the database.	
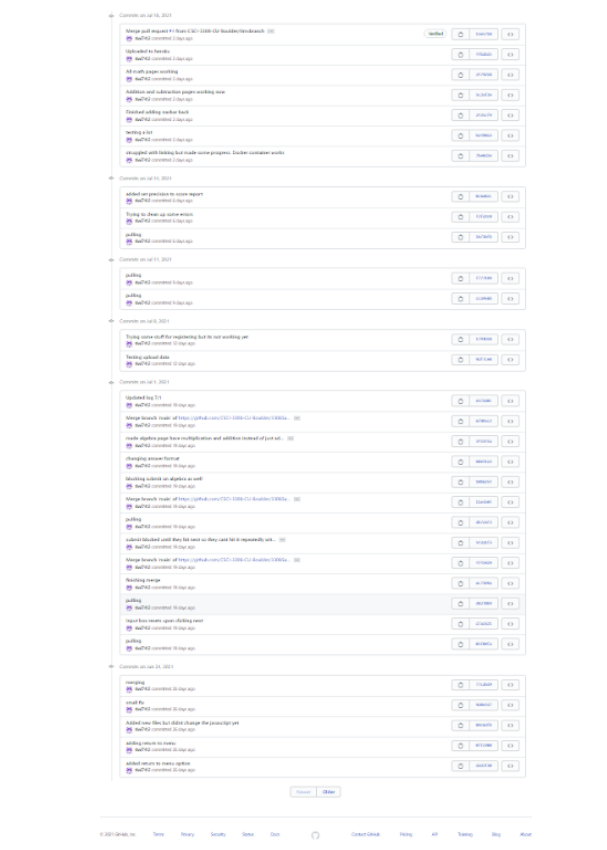
Zach: Developed front and back end features. Such as initial templates for the problem pages, and javascript work with functions that generate the problems and record all relevant information for the problems attempted, including the user's input.

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Deployment: link to deployment environment and a written description of how the app is deployed and how one might access/run the app.

We used Heroku to deploy our app. Heroku is a Platform as a Service (PaaS) that allows developers to easily deploy their apps online. Anyone with access to the internet can access the *Math Whiz-ard* app by clicking the link below.

https://mathwhiz-ard.herokuapp.com/

Database (functional connection, not much visually to confirm it for user as of right now)

https://mathwizard.herokuapp.com/

Setting up an account on the site and then logging in will show the name that the user registered with, as seen below.