



Math Whiz-ard

MATHEMATICS

Group Members:

Alex Ojemann

Jon Noranbrock

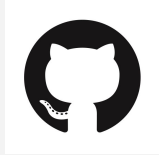
Logan Park

Tim Wilson

Zach Wrubel



Tools and Methodology we used



Github - We used GitHub to upload all of our files to a shared remote repository where we can merge and make changes without conflict.



Jira - This tool was used to incorporate our development strategies and ensure that everyone was working on a distinct aspect of the project.



PostgreSQL - This was used to store and pull information from our webapp.



HEROKU

Heroku - We used Heroku to make our website accessible without having to clone our repository.



Node.js - This was made to request information to and from the server to the webpage forms with PostgreSQL.

We have incorporated Agile/Scrum Methodology to organize and work on our project. This methodology was new and we had to learn to use and adjust to the workload and progress, but as we progressed throughout the project timeline, we have been able to better utilize this tool and was able to work on the project more efficiently and have each team member know exactly what work each person is doing and is responsible for.

Ranking of Tools

Project Tracker: Jira (Agile/Scrum Methodology) **Rank: 4**

VCS Repository: GitHub **Rank: 5**

Database: PostgreSQL **Rank: 5**

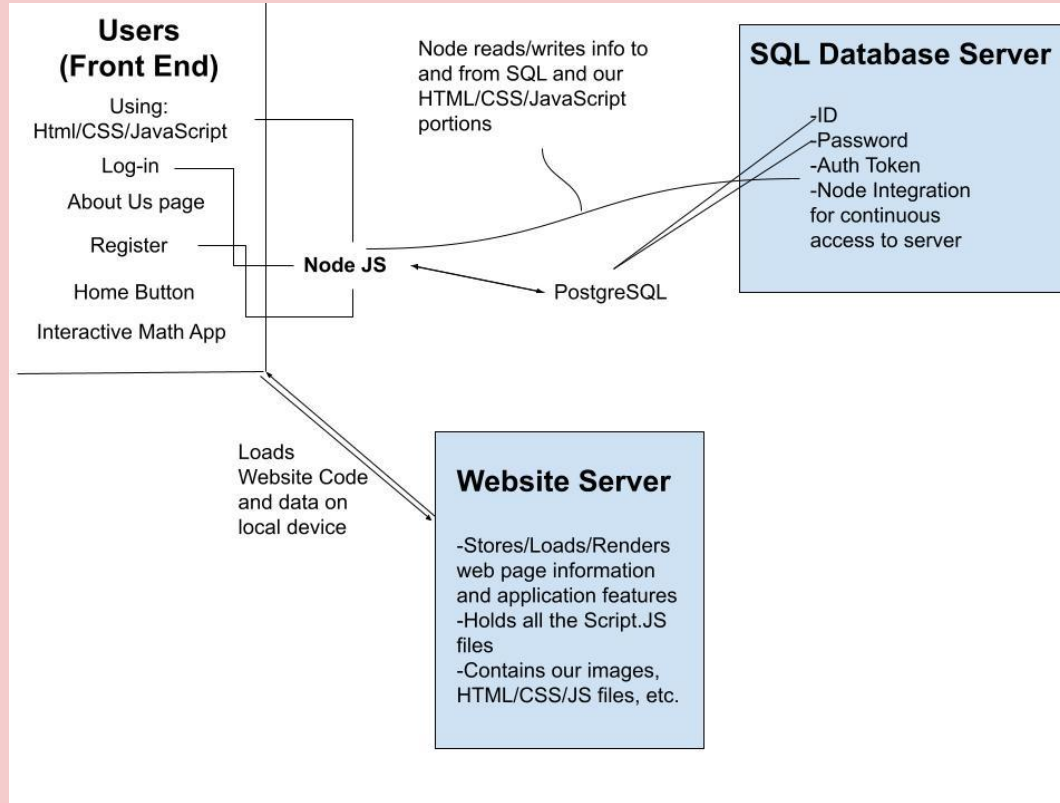
Testing Tool: Mocha/Chai **Rank: 2**

Deployment Environment: Heroku **Rank: 5**

We've used variety of IDEs and Frameworks, including:

- VS Code **Rank: 5**
- Notepad++ **Rank: 5**
- Node js **Rank: 5**

Architecture Diagram



Challenges

In the beginning of the project, one of the biggest hurdles was being able to get used to the Agile/Scrum Methodology in the JIRA platform and trying to ensure that everyone had work allocated to them, and having everyone know exactly which work was being done by each member of the group. At first we weren't utilizing Jira enough to allocate tasks and make sure everyone was on the same page but we eventually cleaned that up. Dwight gave us some tips on how we could improve on this during one of our TA meetings, and this has significantly improved our communication and work-allocation.

Additional challenges: Some of our biggest challenges were in debugging and doing live-testing as well as incorporating some of the APIs, but rest assured, we were able to create a working project at the end of it all with the help of our TA Dwight.

Working Demo

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