http://themathbook.org/

Description:

An open-source educational website that focuses on advanced mathematics. It functions like an interactive textbook, providing users with a comprehensive understanding of various mathematical concepts. One of the key features of The Mathbook is its ability to provide users with a clear line of prerequisites for any topic they are interested in learning. This feature helps users understand the logical progression of mathematical concepts and the connections between different topics, making their learning experience more efficient and effective. The Mathbook is a valuable resource for students, educators, and anyone interested in expanding their knowledge of advanced mathematics.

Stack:

Frontend:

- HTML
- CSS
- JS

Backend:

- TBD

Overall Vision:

- Adding content: Create and upload detailed explanations, examples, and exercises for a variety of mathematical concepts.

- Developing interactive features: Incorporate interactive elements such as quizzes and simulations to make the learning experience more engaging for users.
- Optimizing for mobile: Ensure that the website is responsive and can be easily accessed and used on mobile devices.
- User testing: Conduct user testing to gather feedback on the website's design, functionality, and content. Use this feedback to make improvements and ensure that the website meets the needs of its target audience.
- Promoting the website: Develop a marketing strategy to promote the website to potential users. This could include creating social media accounts, reaching out to educators and educational institutions, and attending relevant conferences and events.
- Continuously updating the website: As the website grows and evolves, it will be important to continue to update the content and functionality to ensure that it stays relevant and useful for users.

Semester Goal:

- Finish index page design. Includes search bar function and background animation.
- Uploads content pages. Creates well-working hyperlinks to jump through
- Creates the prerequisite function. Automatically generate a path from the basic mathematics to the input subject