

UnderLeaf

By: Josh Kao, Chris Lal, Ben & Harrison Getches

Agenda

- on Project Overview
- o2 Tools
- 03 Architecture Diagram
- o4 Challenges
- os Future Scope
- oo Demo

An Overview of Underleaf.

Elevator Pitch Slide

0

 Innovative web-based LaTeX editor designed to simplify the process of writing and sharing academic and technical documents

colored text

LATEX text

Some text
this is text
Nice text
Any text
Beautiful text
colored text
This the text

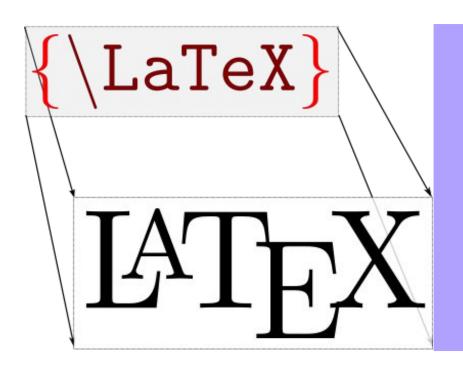












Our Principle:

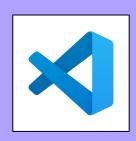
Eliminating the technical barrier that LaTeX poses to our future researchers

Dependencies and Tools.

Tools and Our Ratings



5/5



5/5



• HTML: 5/5

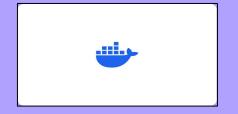
• CSS: 4/5

Handlebars: 4/5

Bootstrap: 3/5

Mocha: 4/5

• Teams: 5/5



4/5



4/5

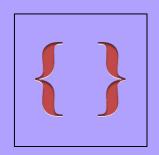


4/5



4/5

Dependencies and Our Ratings



Latex.JS



CodeMirror 5/5



GmailSMTP & NodeMailer 5/5 Other tools:

Axios: 5/5

Bcrypt: 5/5

OpenAl API: 100/5

Methodologies

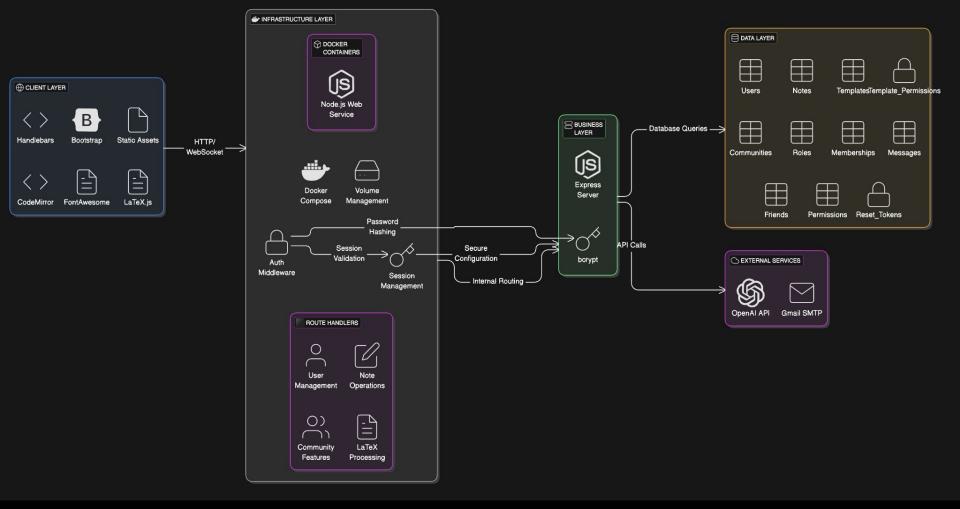








Our Architecture.



Challenges We Faced.



Our difficulties

Integrations

<u>LaTeX</u> and HTML inherently don't work well together (sanitizing data)

Multiple Modals w/ Handlebars

ML is hard

Tensorflow CNN on HASYv2 dataset scored >80% accuracy (k-fold)

Utilizing it was hard-both porting to our app, and using it concurrently on an entire document.

Learning Node

Passing lots of context through Node

<u>Learning difficulties around</u> routing

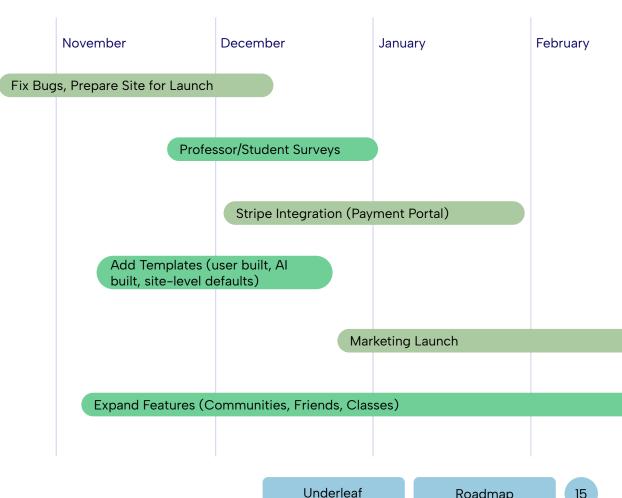
Our Future.

Future Focused

Timeline

Feature Agenda:

- Paid Premium Accounts
- Templates
- Expand Professor-Student Use Case



Roadmap

15



Thank you.