



# Tudr

## Project Presentation

Tudr is the app for students to match with tutors best suited to meet their learning needs

### Team Members

Joe Hoertig-Paulus  
Mason McGaffin  
Nick Meagher

Curtis Preedom  
Connor Shumate

# TODAY'S PRESENTATION

01

## ABOUT

What is Tudr?

02

## DETAILS

Technical details  
including tools,  
technologies, and  
architecture.

03

## JOURNEY + DEMO

Our development  
journey and a hands-on  
demonstration of the  
product.

# What is Tudr?

Tudr is web application which provides university students a personalized platform to match with tutors.



## **Student Focused**

By understanding a student's course load and learning preferences, our algorithm presents students with tutors who are suited to best meet their academic needs.



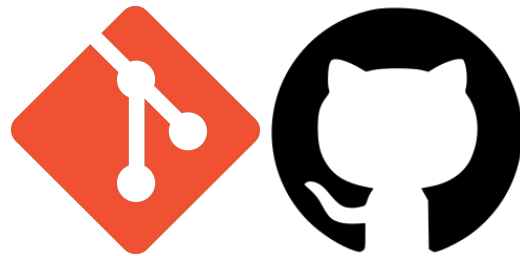
## **Convenient**

Once a student-tutor match has been established, our platform enables seamless session scheduling.





# TOOLS



## Git + Github

Version Control Software (VCS) & Hosting

**5 / 5**

Git and Github were the fundamental tools which enabled our team to collaborate on the codebase.

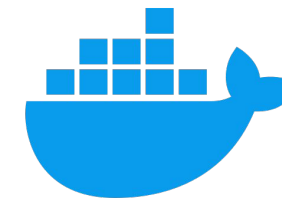


## Draw.io

Diagrams

**4 / 5**

Draw.io was a great tool for making technical diagrams.

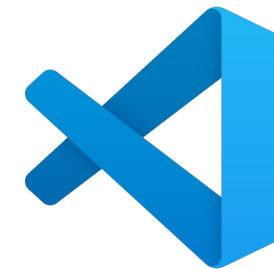


## Docker

Development Container

**5 / 5**

Docker made it simple for our team members to develop the codebase on their systems in a reproducible way.



## Visual Studio Code

IDE

**5 / 5**

VS Code provided a nice, lightweight IDE for our team. The integrated terminal and Git GUI were very useful.



## Canva

Wireframes

**4 / 5**

Canva made creating wireframes for our pages easy. The collaboration features were very convenient.



# COLLABORATION

## Feature Branches

Our team employed a branch-per-feature development strategy. Before a feature was merged into main, it had to be reviewed and approved by one other team member.

## Weekly Meetings

In addition to our SCRUM meetings with the TA, our team held weekly sprint planning meetings. We discussed our goals for the week, created user stories, and assigned ourselves to tasks.

## MANAGEMENT TOOLS



### Discord

Team Communication

**5 / 5**

Discord was a great platform for team communication. We could easily message and voice call.



### Github Projects

Project Management

**3 / 5**

Github project was an effective tool to manage our team. Task granularity is not great, but the tight integration with Pull Requests was convenient.





# TECHNOLOGIES

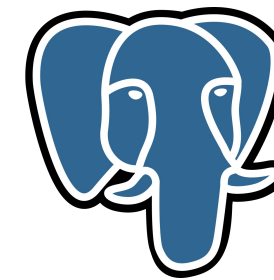


handlebars

**HTML + handlebars**  
UI + Templating



3 / 5



**PostgreSQL**  
Database

4 / 5



**chai + mocha**  
Unit Testing

3 / 5



**Sign in with Google**  
User Authentication

5 / 5



**node.js + express**  
Application Server +  
Web Framework

5 / 5



**Render**  
Web Service Host

4 / 5



# TECHNOLOGIES



Nodemailer

**Nodemailer**  
Email Notifications

5 / 5



**Bootstrap**  
Styling

5 / 5



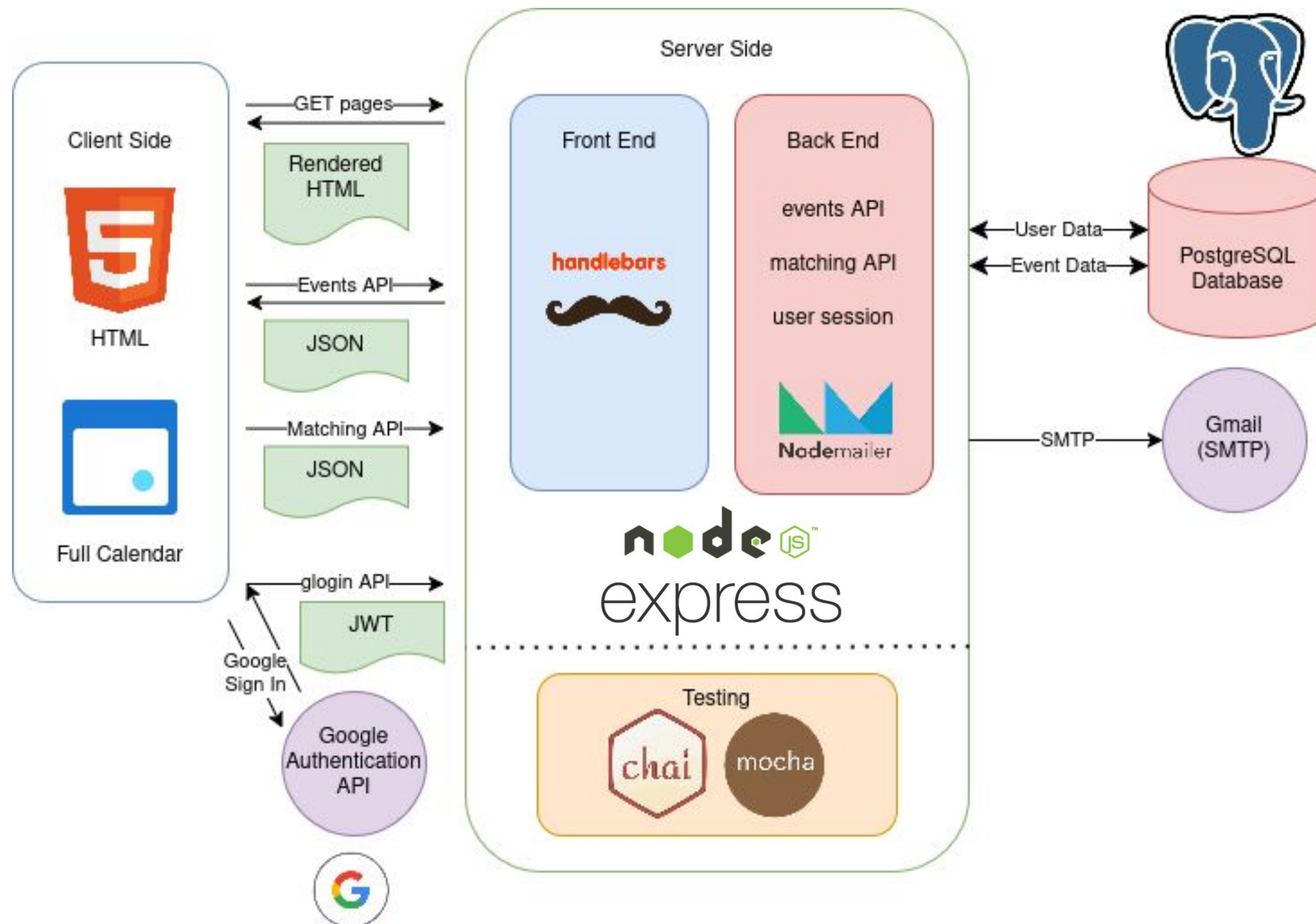
**FullCalendar**  
Calendar UI

2 / 5





# ARCHITECTURE



# CHALLENGES



## Calendar UI

We found the FullCalendar library to be difficult to work with. It was challenging to get the calendar to behave how we wanted both from a functional and design perspective.

This setback meant we spent more time on the calendar feature than expected, drawing effort away from other features.

## Cross-Browser Compatibility

When reviewing code, we would often find that UI elements behaved differently on different browsers.

Members of our team use several different browsers, so we addressed this challenge by having multiple people review UI changes.



# THE FUTURE



## MESSAGES

On-platform messaging between students and their tutors



## EDIT PROFILE

Enable users to update their information after registration

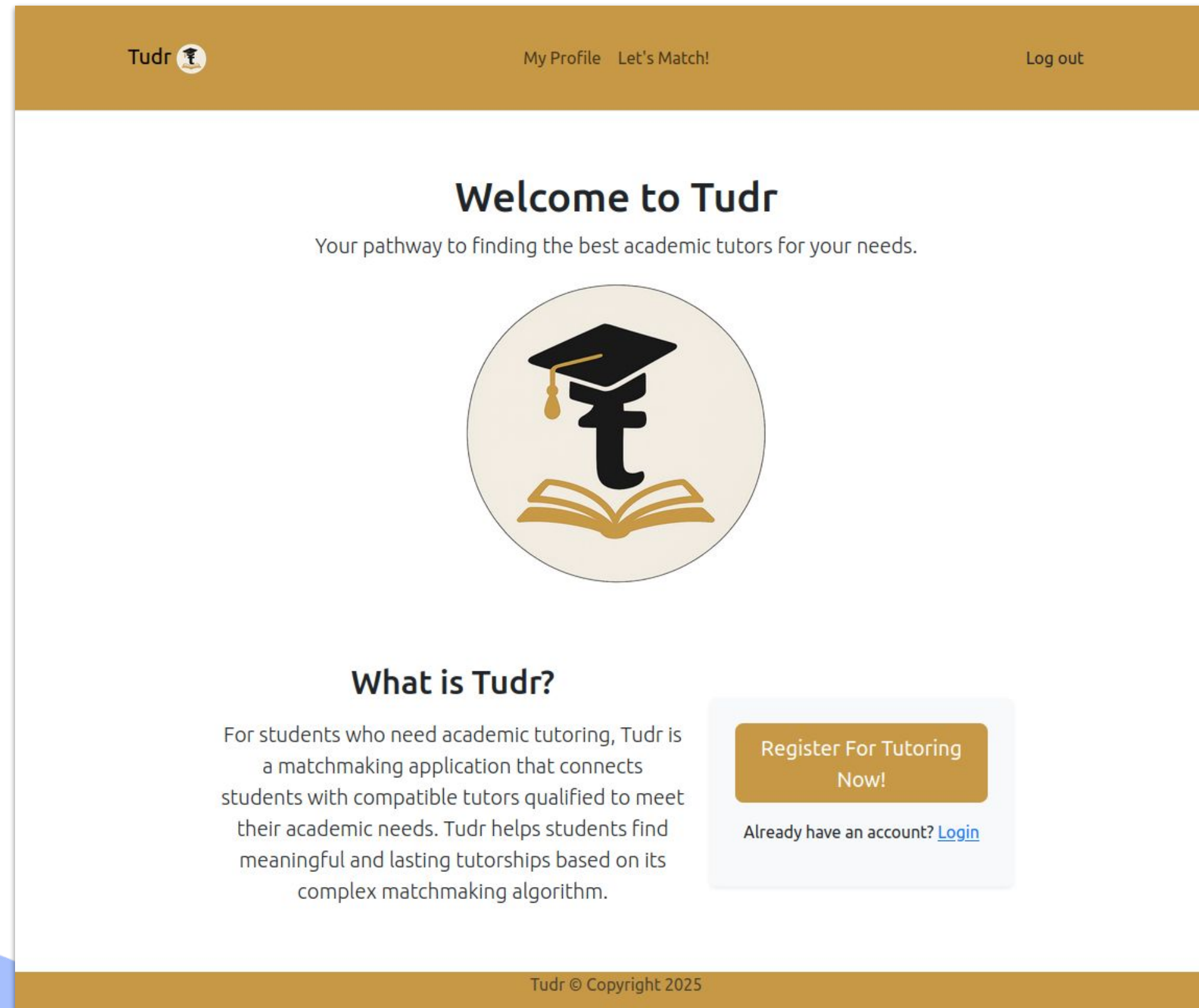


## MOBILE UI

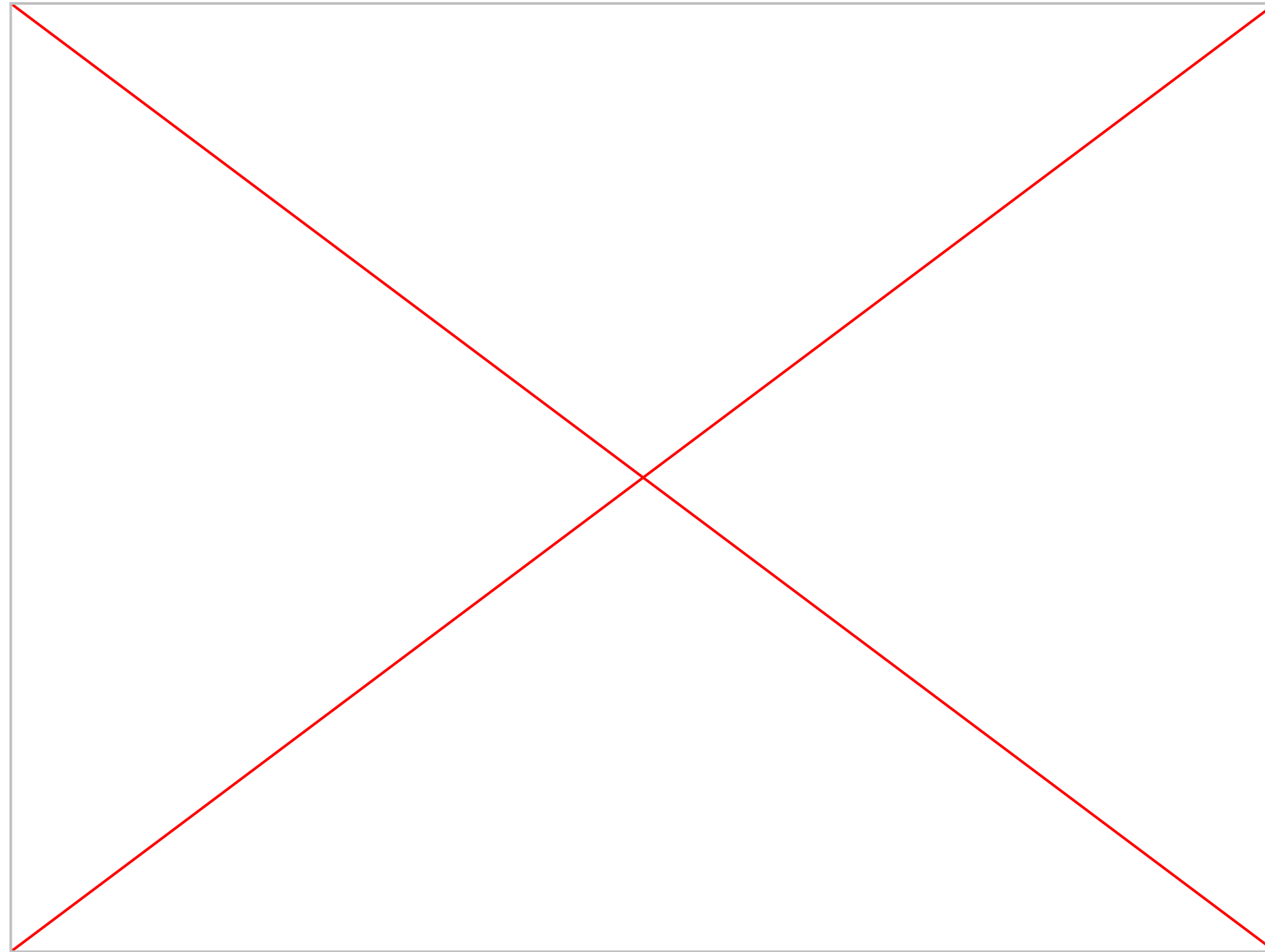
Rework the UI to feel natural for mobile displays



# DEMO



# DEMO (VIDEO)





# THANK YOU





# CREDITS



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# HAPPY DESIGNING!



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