

# Plate

**A clean time management tool**

Samuel Shuert, Matthew Schardt & Max Mahn

# Overview

# Meet the Team



## Samuel Shuert

Authentication, Calendar Week View & Database

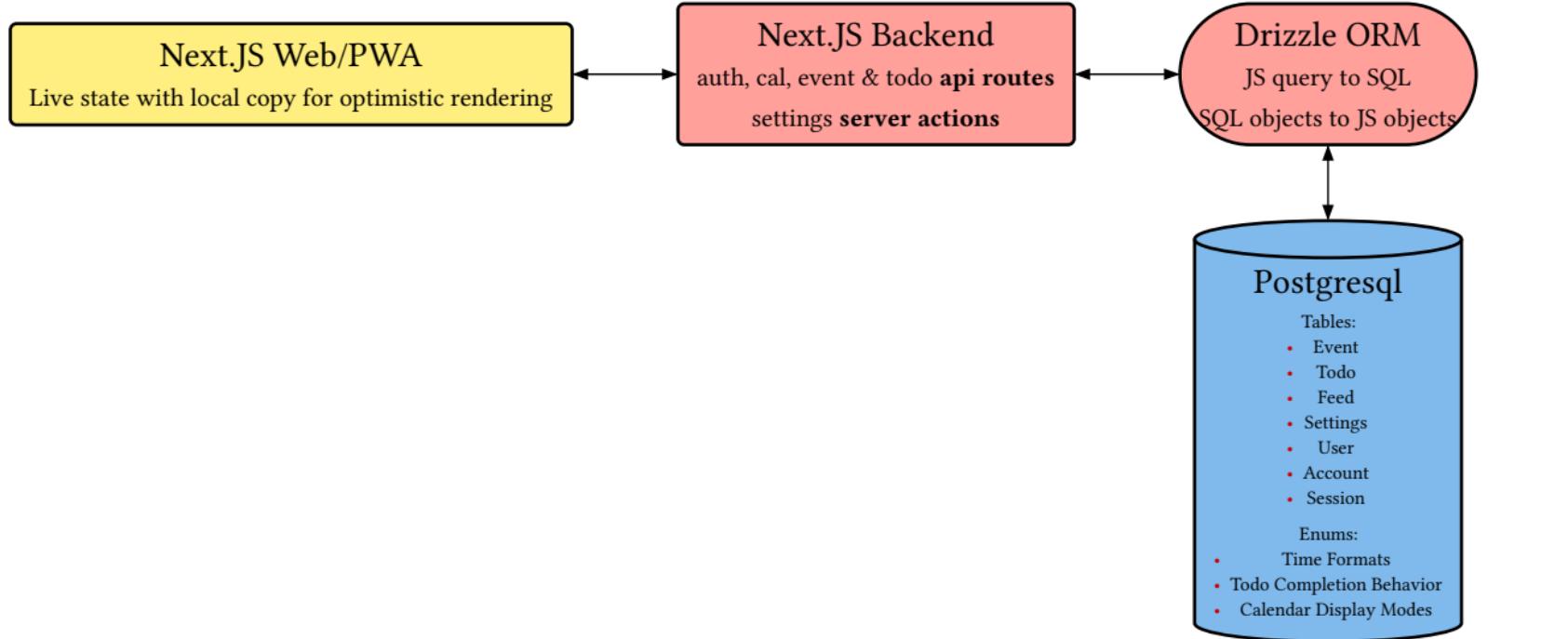
## Matthew Schardt

Calendar Month View, Todo Widget

## Max Mahn

Calendar Day View, Dashboard Layout

# Architecture



# Project Status

# Features



- User Authentication
- Auto-adjusting dashboard layout for different screen sizes
- Calendar with Multiple Views
- Todo widget for managing tasks

# Issues

- Mobile View
- Poor Test Coverage

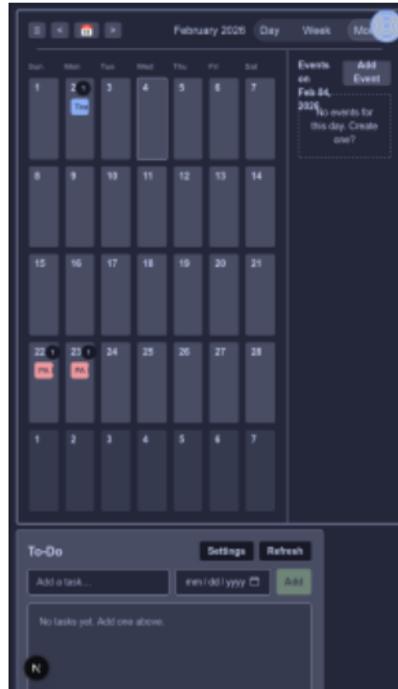


Figure 1: Mobile View

# Learnings

# Cognitive Complexity



Cognitive Complexity measures the complexity of a program by analyzing the code's structure and logic.

A rough summary on how it's calculated goes like this: for every

- loop
- conditional statement
- breaking statement
- function call

the complexity increases by one.

Nesting some of these calls can increase the complexity further.

The use of this when writing an application is important for ensuring that any developer is able to quickly understand any part of the codebase.

```
const myMethod = () => {
  try {
    if (conditionA) { // +1
      for (const i=0; i < 10; i++) { // +2 (n=1)
        while (conditionB) { ... } // +3 (n=2)
      }
    }
  } catch (error) { // +1
    if (conditionB) { ... } // +2 (n=1)
  }
} // Cognitive Complexity 9
```

References

# Learning Technologies



## NextJS

Next.js is a full stack React Framework with serverside rendering, file system routing, and API endpoints built in.



## DrizzleORM

DrizzleORM is type-safe database connection manager. It allows us to make queries and mutations to the database with correct type hinting and no chance of our data being malformed (knowingly).

## TailwindCSS

Tailwind CSS is a CSS framework built with development speed, complete customization, better performance, and less CSS to maintain in mind.

## **Repo information**

## Details



<https://github.com/TheCodedProf/plate>

# Q&A



**Thanks for your time**

## References



Link to a paper on Cognitive Complexity [Cognitive Complexity](#)