

*enJ*erneering UI Builder

Pierson, Jake, Jadi, Payton

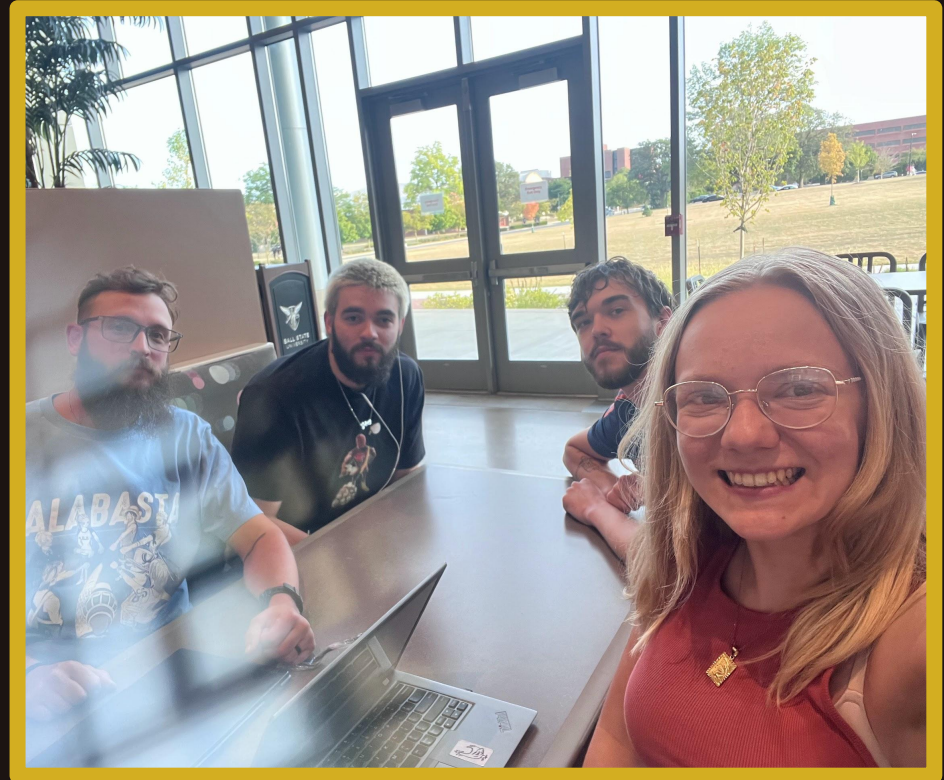
Team Member Information

Jadi - Specializes in making games and interactive software

Jake - Prefers frontend and UI development

Pierson - Enjoys backend coding portions of projects, Seahawks Fan (unfortunately)

Payton - Enjoys backend programming



Something Interesting...

Pierson got a kitten!



Client Information

Jerrod Smith, Owner of EnJerneering

- Flexware Innovation Software Engineer
- This is a side project outside of his typical scope of work
- Outsourced a design team overseas who have set up the repository, built the UI, and implemented some of the bare bones of the project



Business Requirements

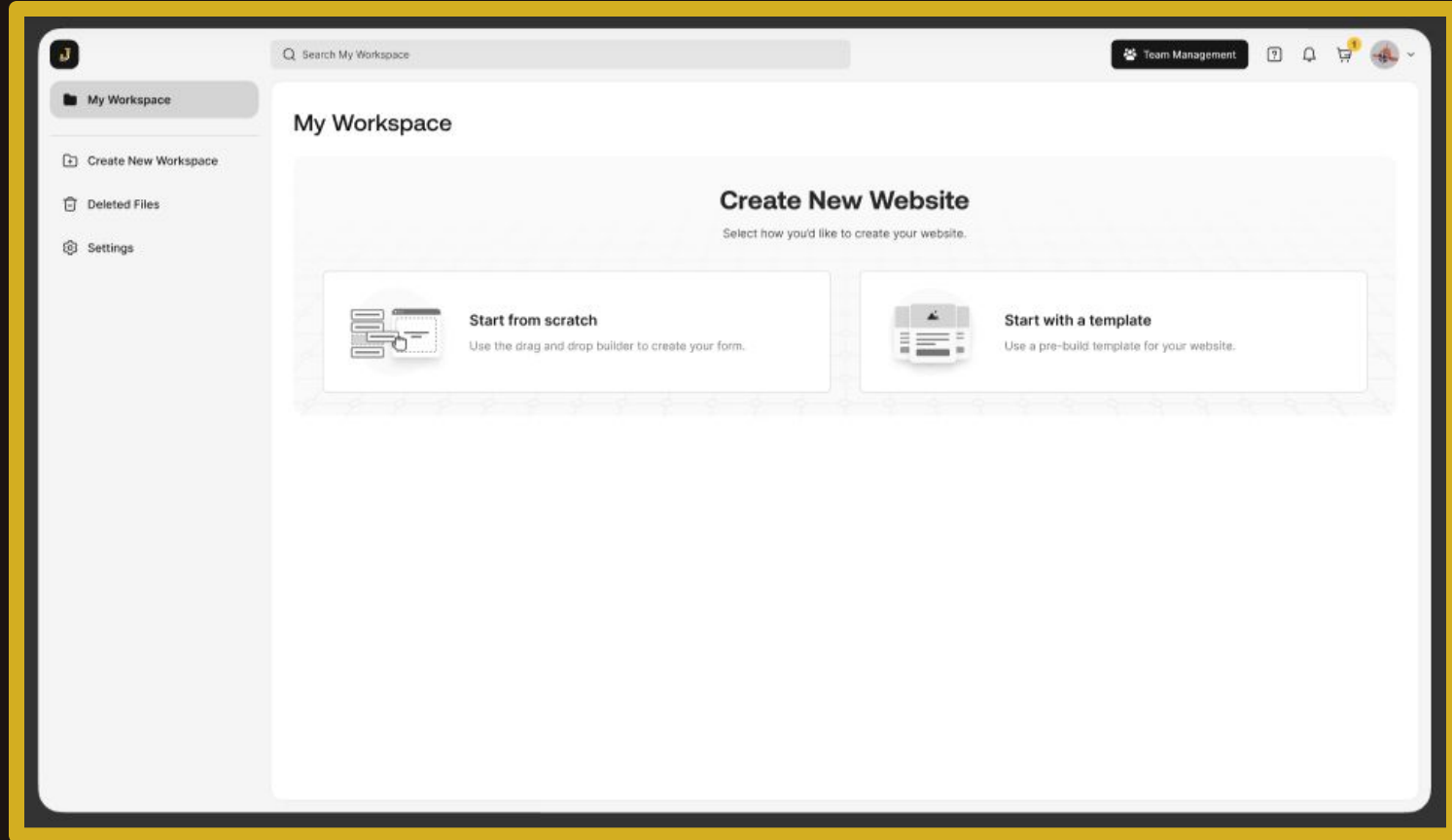
BR1:

The platform will allow freelance web designers to create and manage multiple websites through a drag-and-drop interface.

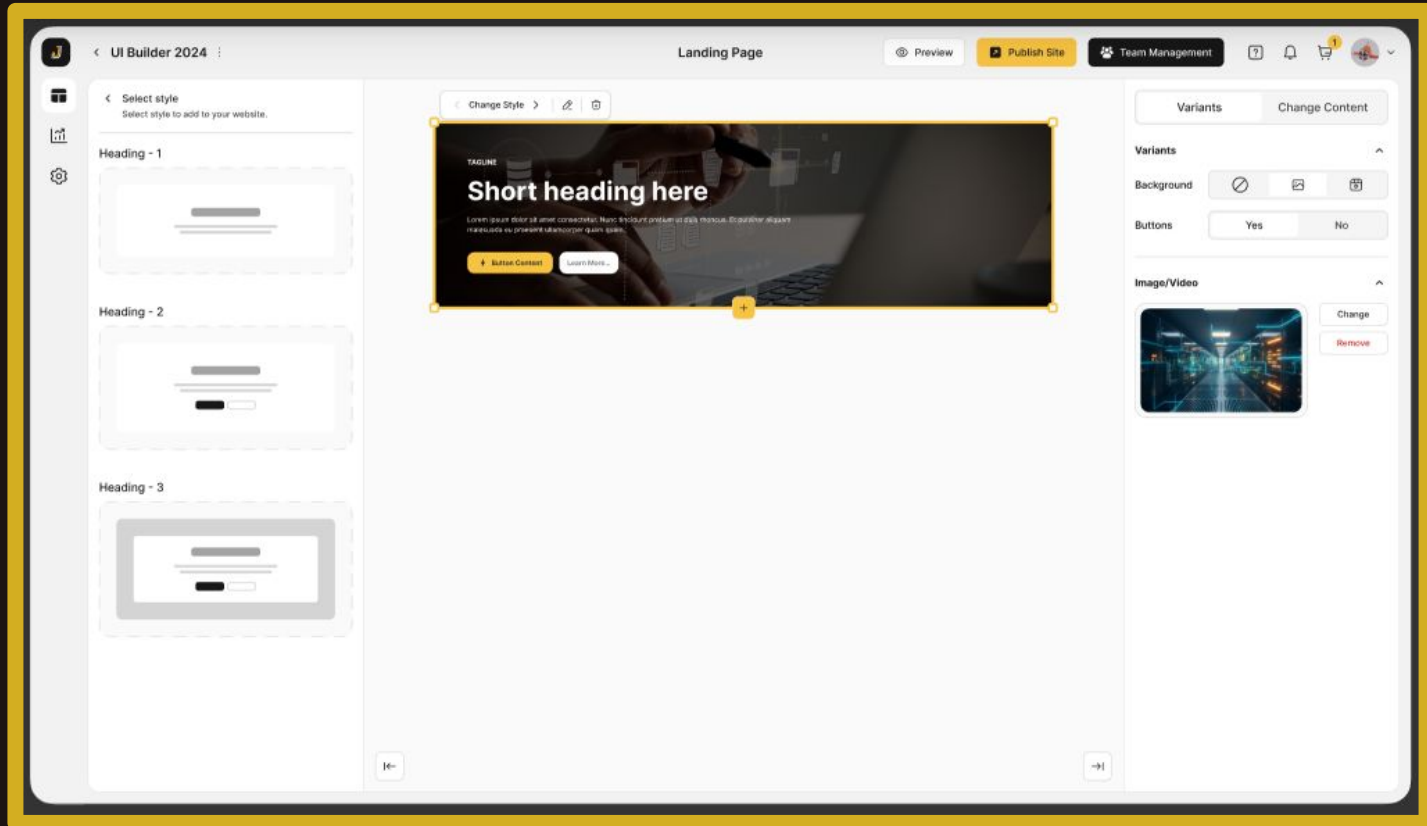
BR2:

The platform will allow freelance web designers to export and deploy their projects in Next.js.

Prototype



Prototype



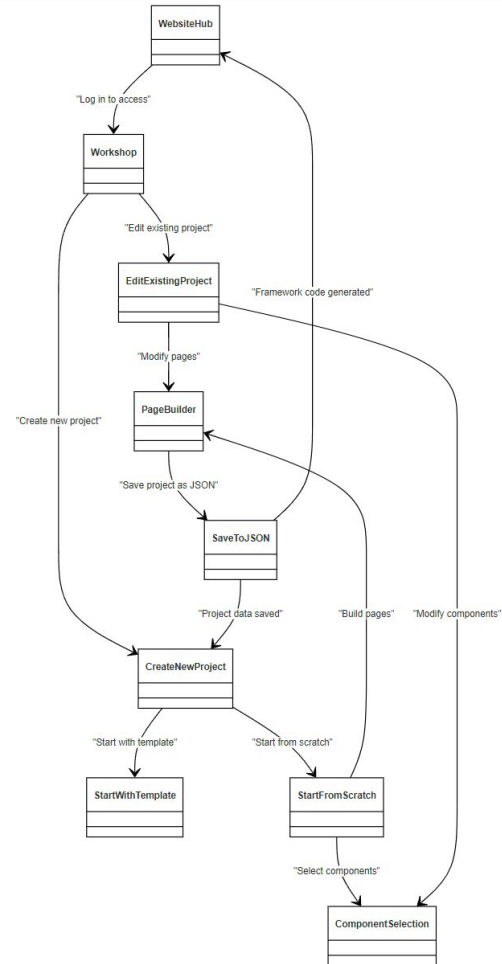
Use Cases

- UC1: Streamlined Web Development Process
- UC2: Customization and Full Code Ownership for Clients
- UC3: SEO Optimization During Development
- UC4: Website Creation for Marketing Clients
- UC5: Enhanced Style Customization for Freelancers
- UC6: Smart Page Management for Continuous Updates
- UC7: Specialized Website Development for Health and Wellness Clients
- UC8: Efficient Content Management for Niche Clients

Requirements

- FR1: A User will be able to create a project to design their website, which can be saved for future updating (UC4) [high]
 - FR2: The system will allow a user to edit and update previously saved projects (UC6) [high]
 - FR3: The setup page for a new project will allow the user to input key information for their web project, which can be used to create a base template for their project (UC5) [high]
 - FR4: Component options can be dragged and dropped by a user into the UI builder to design the layout for their project (UC1) [high]
 - FR5: Projects can include multiple pages that can follow the same design layout and have individual functionalities (UC8) [medium]
 - FR6: Projects can be exported to a generalized JSON format, which can be converted into next.js to create the final website (UC2) [medium]
 - FR7: Pre-designed templates are available for users when they create their project (UC5) [low]
-
- NR1: User's projects and information are safely and reliably stored to ensure their work is not lost (UC7) [high]
 - NR2: UI builder is optimized and organized as to not hinder users' workflows (UC3) [low]

Domain Model



Tech Stack

Next.js/ Typescript

“It doesn’t let
you write bad
JavaScript.”

Prisma ORM

Code-first
approach to
databases

Stays in the
repository as
the frontend
code

Supabase

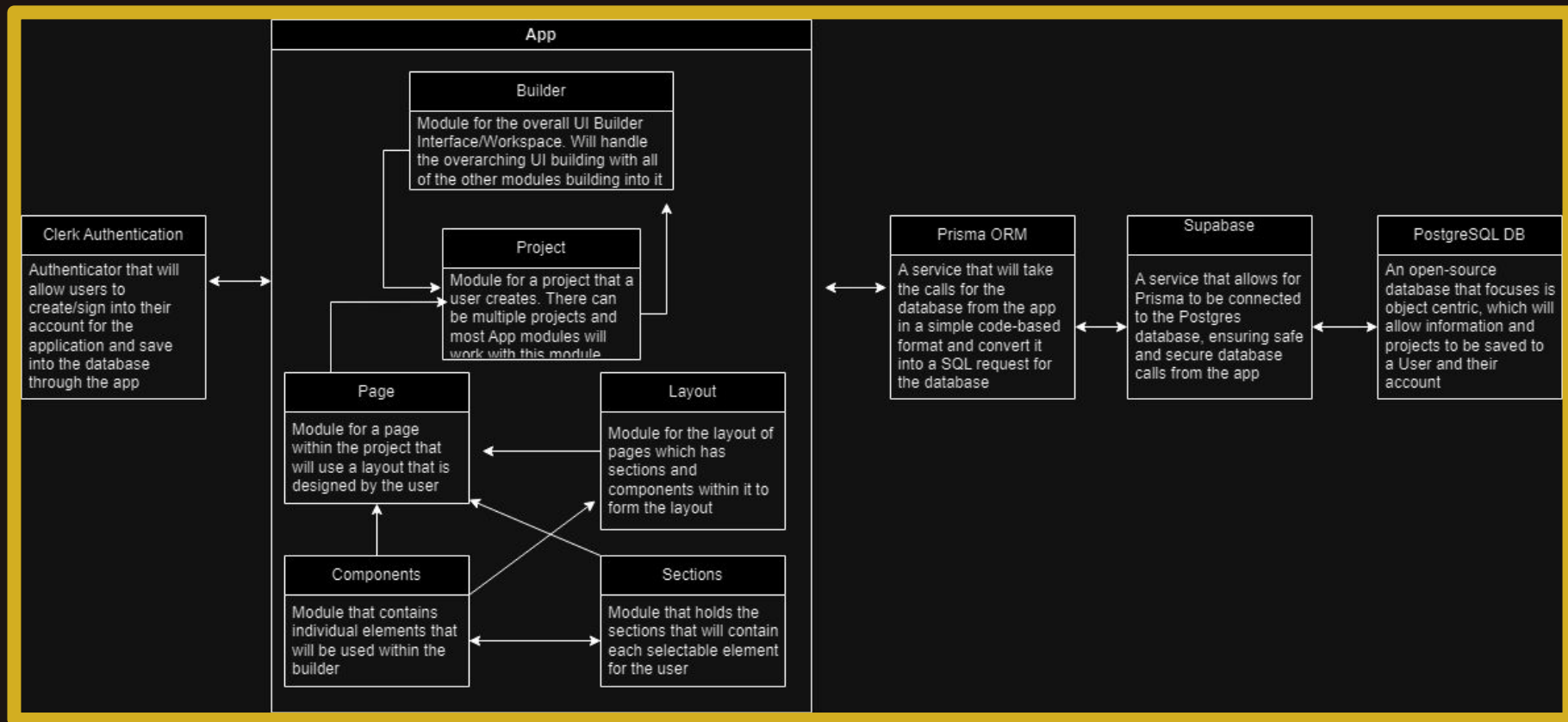
Database
service that
makes
database
building easier

Clerk Authenticator

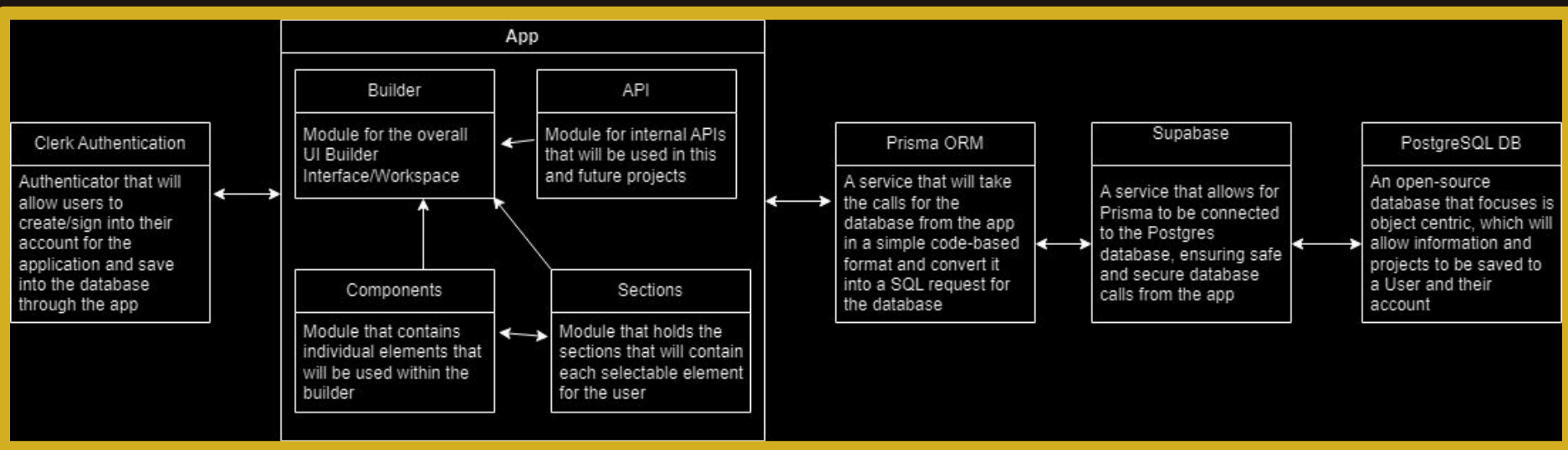
Avoid security
certificates

Avoid building
custom login
service

Architecture



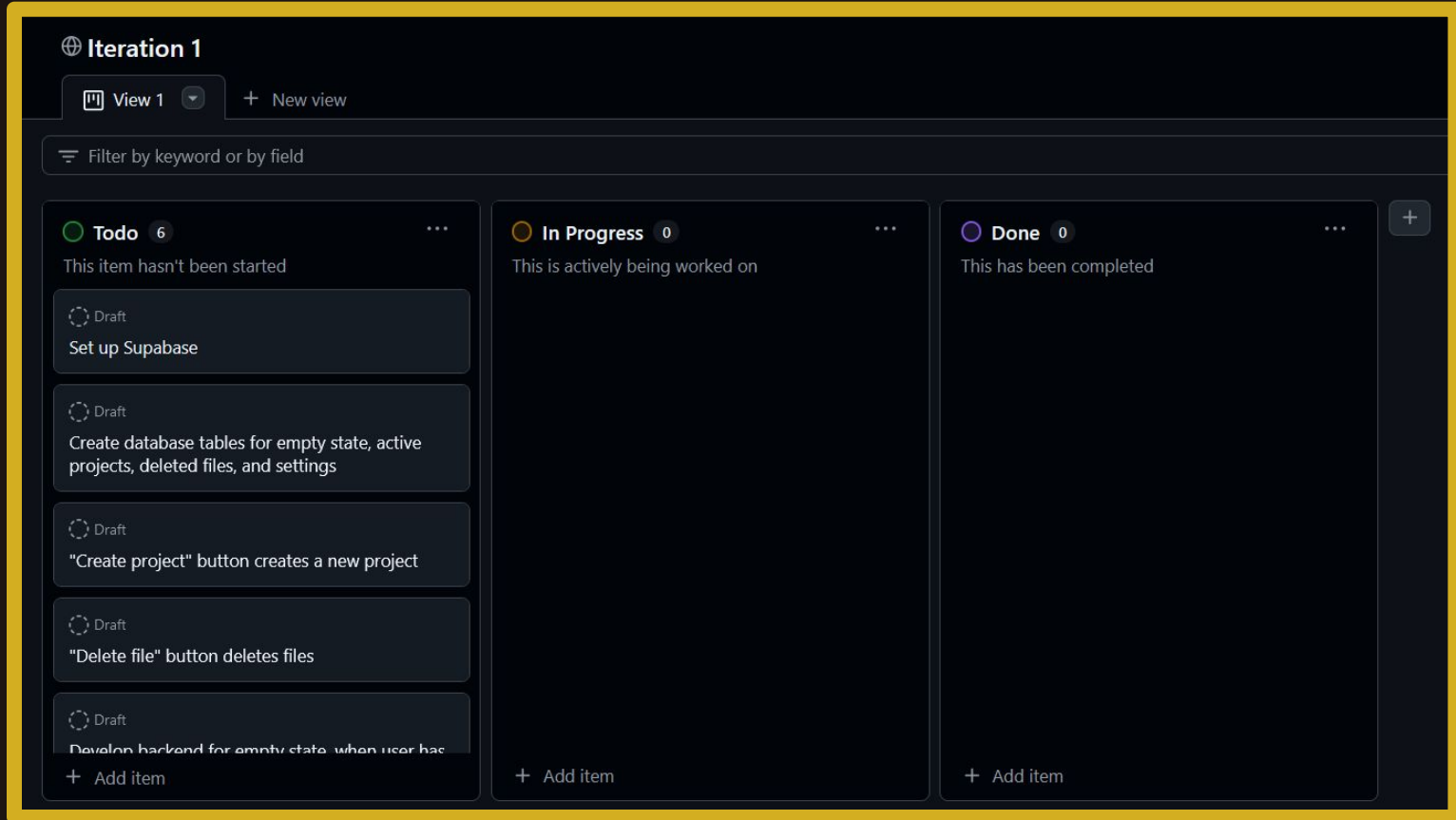
Architecture Before Feedback



First Iteration Features

- **Set Up Backend Infrastructure Using Supabase**
 - Implement the backend database using supabase with pre-defined
 - Connect frontend forms with data storage and retrieval in supabase
- **Connect Most Important UI Elements to Backend**
 - Link buttons (like 'Create Project' and 'Delete Project') to Supabase using API for data retrieval and submission
- **Project Setup**
 - Implement "Existing Website" form functionality
 - Add logic to ask if user has existing website
 - Capture website details if user has existing website
 - Validate and save the data in Supabase for use in project creation
 - Ensure correct formatting for fields like Domain or URL

First Iteration Features



Q & A

Questions about...

EnJerneering UI Builder

Architecture

Tech Stack

Domain Model

Requirements

First Iteration

Anything else?