


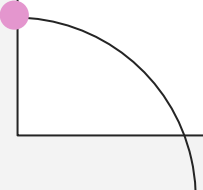
A decorative border surrounds the central text. It features a thin black line with various geometric shapes (circles, diamonds) and curved arrows at the corners and midpoints. The shapes are colored red, black, pink, and purple.

# Cheetah Sign



# Team Members

Levi Shelley  
Riley Jamison  
Hunter Johns  
Tia Self





# Client

Accutech

- Project Owner: Josh Rittenhouse
  - Mentor: Gabe Chandler
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- 



# Design Materials



# Business Requirements

**BR1: We need an in-house application used by Cheetah Flow Administrators to send and track legal documents to clients, allow clients to sign them, and then return and store the document for safekeeping.**

The slide features a light gray background with a white central area. On the left side, there is a vertical line with a red dot, a red diamond, a pink circle, and a black diamond. On the right side, there is a black dot and a curved arrow. At the bottom right corner, there are three small shapes: a pink diamond, a red circle, and a black diamond.

# Use Cases

## UC1: Manage Documents

- Documents must be kept in order and monitored



## UC2: Sign Documents

- Admin must be able to sign documents within the app



## UC3: Prepare and send to clients

- Admin show where to sign and send to client



## UC4: Sign and return to admin

- Clients will fill out send to next party (typically admin)





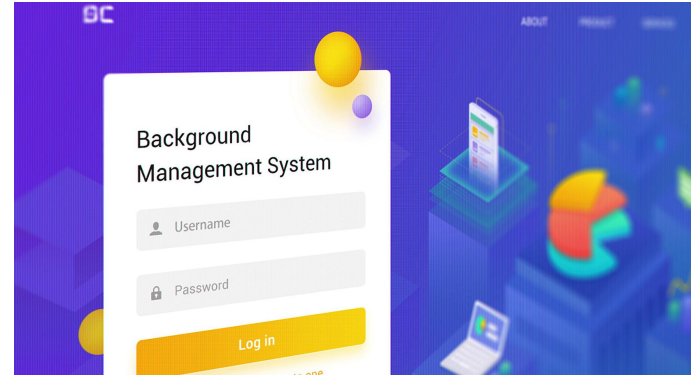
## UC5: Log Audit Trail of Documents

- Documents show what happened and when



## UC6: Login System for Admin

- Admin must login to access documents



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# Requirements

# High level FR

- The system will function as a standalone program for administration and signing will occur on the client's browser.
- Administrators of the system will take documents and set fields to be signed throughout in order to turn it into a 'job' to be sent to and returned by the client via email of a link to the browser page.
- The system will log an internal audit log of each document that logs timestamps of things such as creation and filling.
- The administrative tools will require a login to ensure data security.

The full, verbose list of requirements

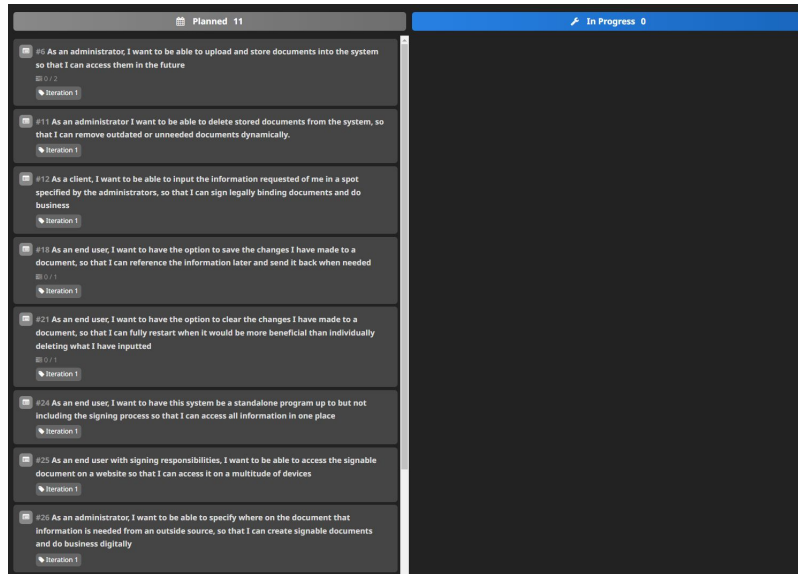
# Non-functional Requirements

- NR1 - The audit trail (FR 16) will not be visible directly within the document, but rather in the administrative tools found elsewhere in the system (FR17)
  - UC5
  - High Priority
- NR2 - Documents can populate multiple lists, as there is the original version of the document and the signed version that are stored separately (FR15)
  - UC1
  - Low Priority
- NR3 - When a file is sent over email (FR9), the administrators will be able to send a full email that also includes the link, it will not be an otherwise empty email that only houses the link.
  - UC2
  - Low Priority
- NR4 - When the program opens, the login screen (FR19) will be the first page visible to the administrators
  - UC6
  - Medium Priority

# First Iteration Features

Iteration 1 will be a standalone and local version of the program, focusing on the fundamentals of the administrative tools, but still allowing for signatures

The full HacknPlan task manager



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# Tech Stack

# Frontend

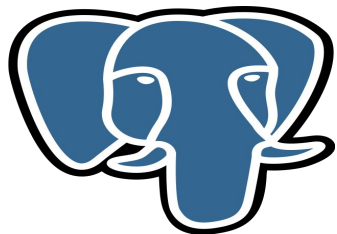
## Frameworks - Vue.js

Vue.js is a popular open-source JavaScript framework that is used to create interactive user interfaces and single-page applications. It was praised by our client for being easier to learn and having much better syntax than other Javascript frameworks.

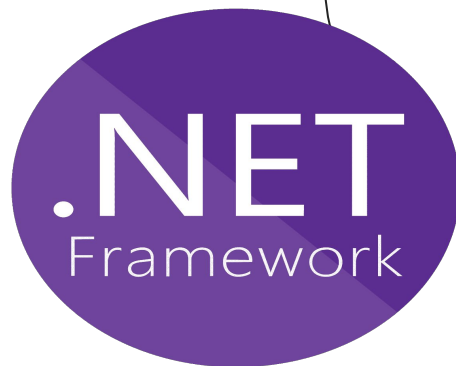


# Vue.js





# Backend



Frameworks – .NET 8.0 (C#)  
Database – PostgreSQL

.NET is an open-source and cross-platform framework that is primarily used for building high-performance web applications. .NET supports multiple programming languages but we will be using C# for Cheetah Sign.

PostgreSQL (Postgres) is an open-source relational database management system. Though we were given the option of using Microsoft SQL Server, our client preferred we used Postgres. For connecting our .NET backend to our database, we will be using Microsoft's Entity Framework as recommended by our client.





# IDE/Code Editor



Frontend - VSCode

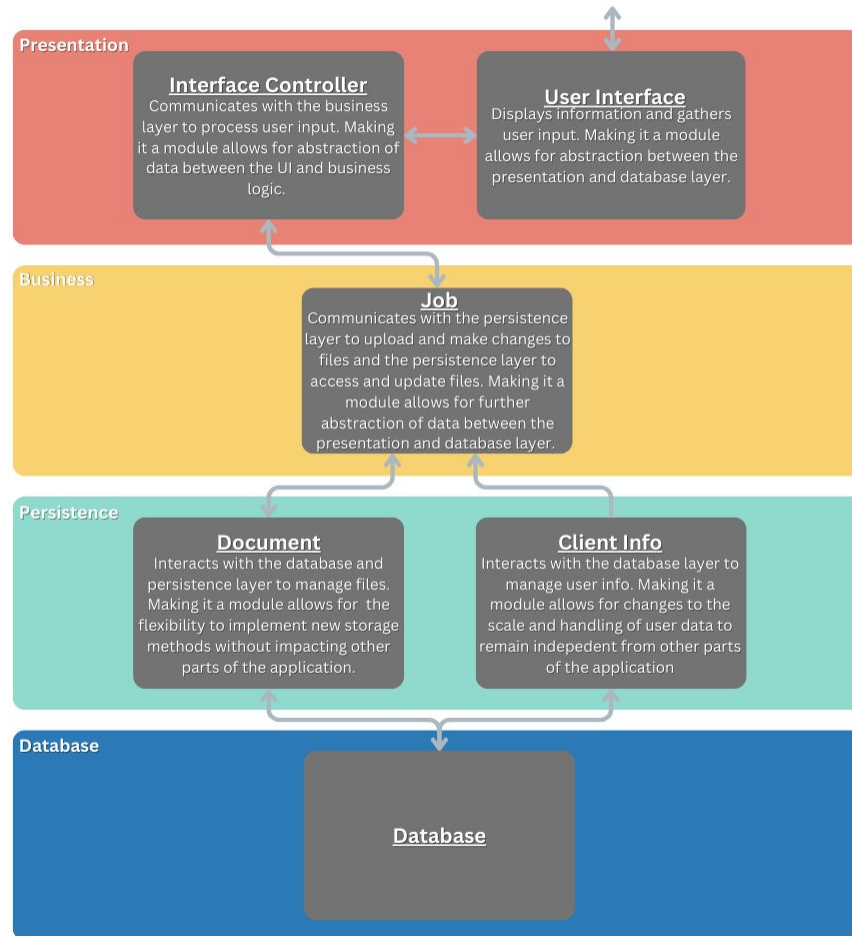
Backend - Visual Studio

Visual Studio Code is a lightweight code editor that offers support for extensions. It has plenty of great extensions for Vue.js, which make the development experience even better. Also, all group members are very comfortable with it.

Visual Studio is an Integrated Development Environment (IDE), which is usually the preferred environment for .NET and C# development. Unlike VS Code, which requires setting up a lot of extensions to match specific needs, Visual Studio comes with everything out of the box.

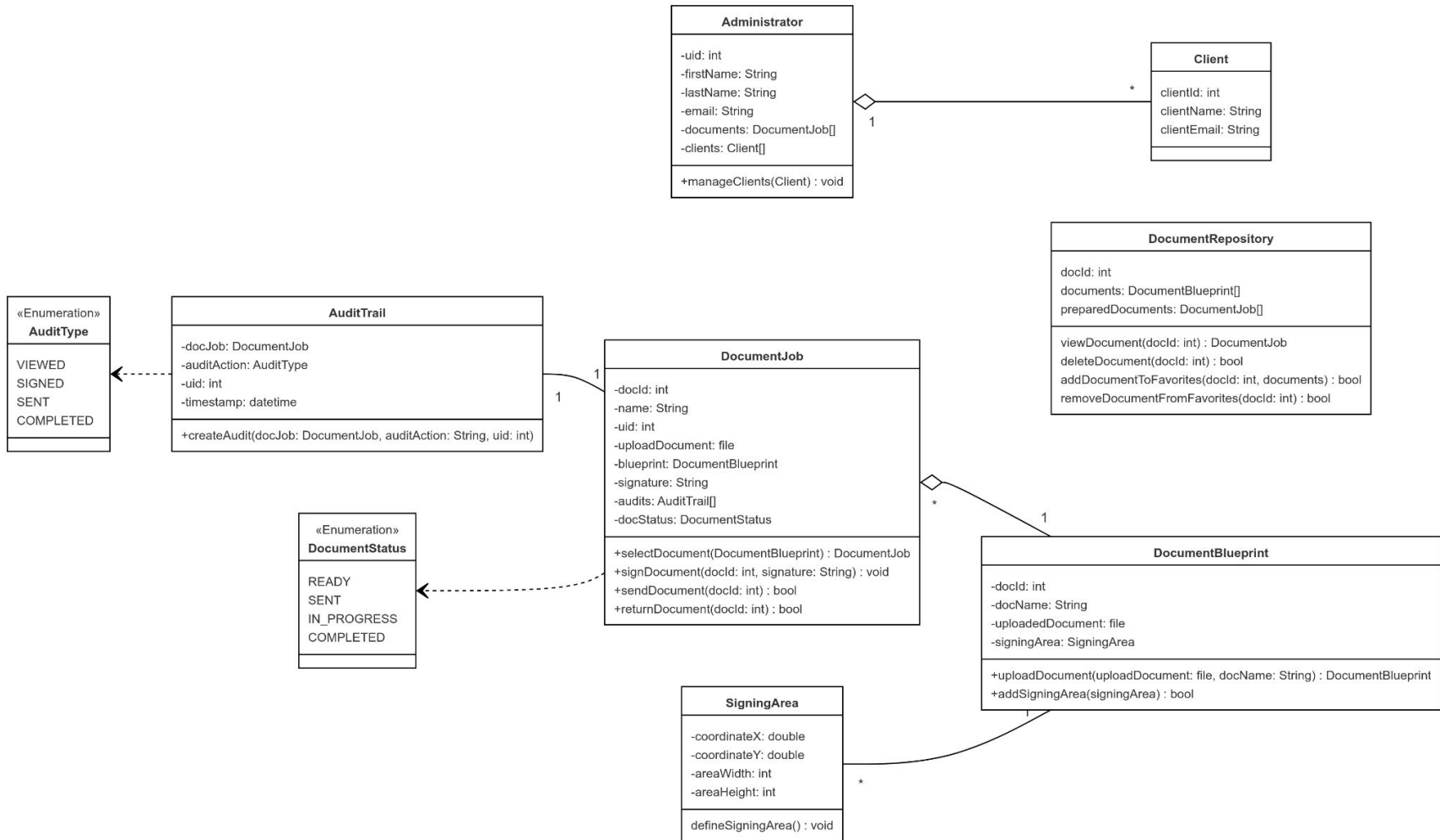


# Software Architecture





# Domain Model



### **Administrator:**

The Administrator class represents the main users of the system. Every admin in the system will share the same pool of uploaded documents from a 'document repository'. Admins will also be able to manage their clients information.

### **DocumentBlueprint:**

The Document Blueprint class represents the place where all documents will be created. The admin can upload their document and prepare it by giving it a name and setting the areas that needs to be signed by the designees. After doing this the document can become a 'document job'.

### **SigningArea:**

The SigningArea class is used to specify exactly where the designees need to sign. This will be done by marking coordinates of the page and setting a width and height of the text box.

### **DocumentJob:**

The DocumentJob class represents the documents after they have been uploaded and prepared. It becomes a job because the documents can be signed, sent, returned, etc. All document jobs will have an audit trail to keep track of the actions performed on the documents.

### **AuditTrail**

The AuditTrail class is responsible for logging all actions performed on document jobs to form an audit trail. It uses an enum that contains audit type values to keep track of the audit type, the user who made the audit, and the time it happened.

**AuditType:**

This class is an enumeration that defines the various audit types whenever an action on a document takes place. This will help to keep a trail of all document audits.

**DocumentStatus:**

This class is an enumeration that defines the various statuses that a document can have throughout its lifecycle. Each status represents a specific state of the document, allowing for tracking each step it is on.

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# Prototype

Sort **Document****Recipients****Status**

Legal Shenanigans

Olivia Roussel

In Progress

[View](#)

The Debugging Pact: No Bugs Left Behind

Levi Shelley, Hunter Johns,  
Riley Jamison, Tia Self

Sent

[View](#)

Mutual Understanding of Napping Rights

Gabby Spier, Emilee Dailey

Completed

[View](#)



# Mutual Understanding of Napping Rights

## Introduction

This Mutual Understanding of Napping Rights ("Agreement") is entered into by and between the undersigned parties (collectively, the "Parties"). The purpose of this Agreement is to establish a clear and mutually agreed framework regarding the conditions, rights, and obligations related to designated napping periods, locations, and boundaries, with the intent to promote well-being, productivity, and harmony.

The Parties acknowledge that napping contributes positively to mental health, focus, and overall productivity. This Agreement aims to define and protect each Party's right to rest, while ensuring that these periods of rest do not infringe upon the needs or expectations of the other Party.

By entering into this Agreement, the Parties mutually agree to the following terms and conditions governing napping rights as set forth below.

## Audit Log

2024-09-24 10:05 AM	Document sent
2024-09-24 10:30 AM	Document opened
2024-09-25 9:15 AM	Document signed
2024-09-25 9:18 AM	Document signed
2024-09-25 9:30 AM	Signing completed

Sort 

## Document



Terms for Respectful Collat



Netflix Subscription Shareh



The 'Just One More Episode  
Netflix vs. Homework Negot


[View](#)[Send](#)[View](#)[Send](#)[View](#)[Send](#)

### Send Document

#### Recipients

Client





 Add recipient

#### Document

Document Name

[Send](#)[Upload +](#)

Sort ▼

**Name** Olivia Roussel Gabby Spier Emilee Dailey

New +

**New Client****Name****Address****Phone**

Save

**Phone**

(260) 444-4444



(260) 333-3333



(765) 888-8888



## Agreement Term

This Agreement shall remain in effect until either Party requests termination, or both Parties mutually agree to rescind or amend the Agreement. Either Party may request a review of this Agreement at any time.

By signing below, the undersigned Parties acknowledge and agree to the terms of the Mutual Understanding of Napping Rights as of the effective date.

### Party A

Signature  
**Gabrielle Spier**

Name  
Gabby Spier

Date  
09/25/2024

### Party B

Signature

Name  
Emilee Dailey

Date  
09/25/2024

Save



# Feedback





# Client & Mentor Feedback

Our client and mentor were very helpful in improving our domain model. We designated a meeting to go over our model and discuss how we could make it better. I felt like my understanding of how to construct the diagram improved greatly, and after a couple of iterations, we felt like we had it in a good spot.

## Team Cheetah Sign



Aluminum Sign

