

# Offline Documentation

## Our Client

DocuMentor serves at-home healthcare providers with scheduling and billing software. Customers are small businesses located, at present, in Indiana. These small businesses employ caregivers who visit clients and perform healthcare, rehabilitation, errands, and other services.



## The Problem

About 30% of DocuMentor's clients work in areas where the internet connection is unstable and therefore lose reference to critical patient data as well as the ability to document additional patient data.

## How We Solved It



We used a Javascript Service Worker to cache an offline HTML page. When the internet is disconnected, it switches to offline mode. When the internet is reconnected, it will switch back to online mode.



## Features

1. An offline page that loads when the internet is disconnected.
2. Visit information can be filled out offline.
3. When the internet reconnects, the offline data is uploaded to the database.

## Technology Used



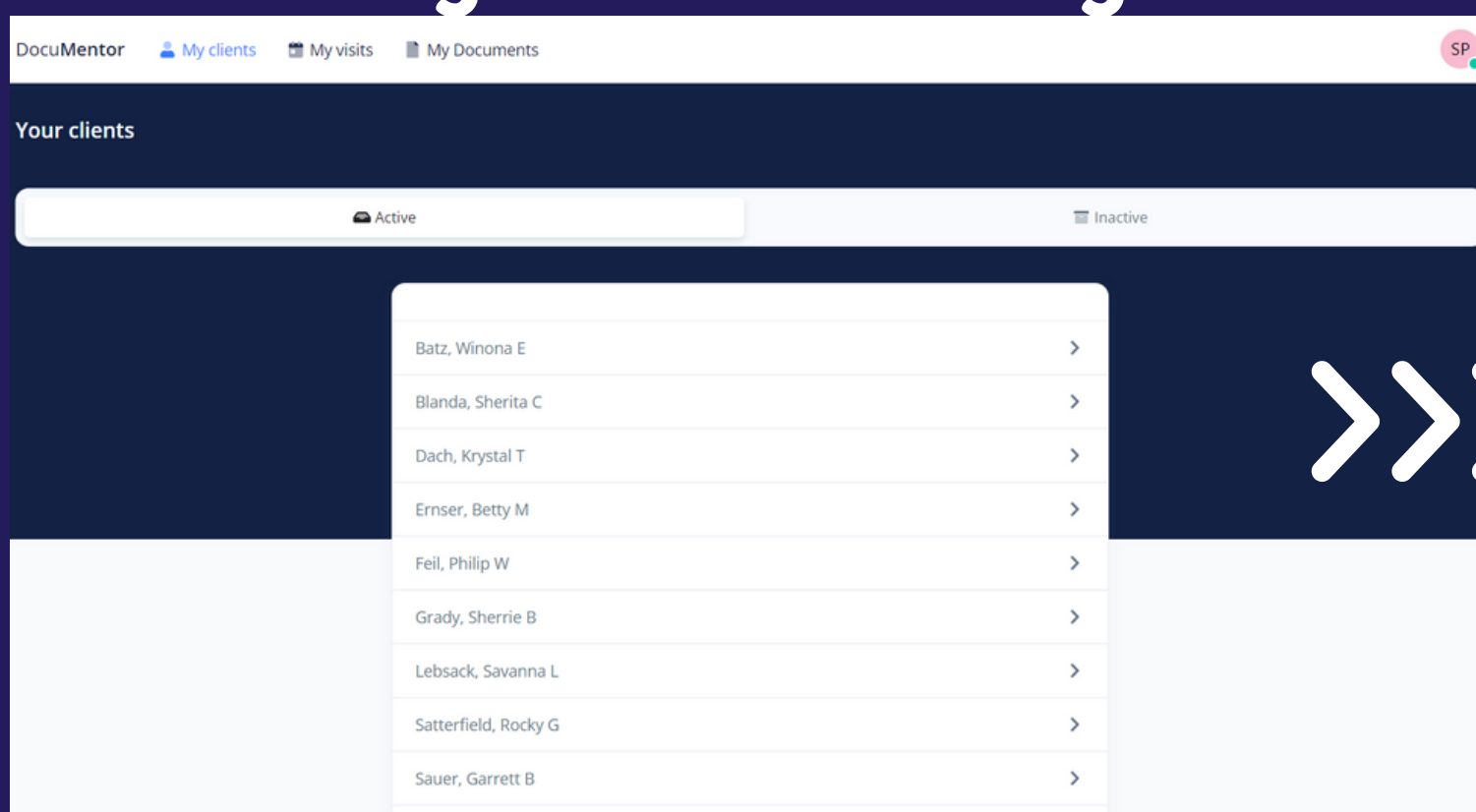
**Framework:** Ruby on Rails

**Database:** PostgreSQL

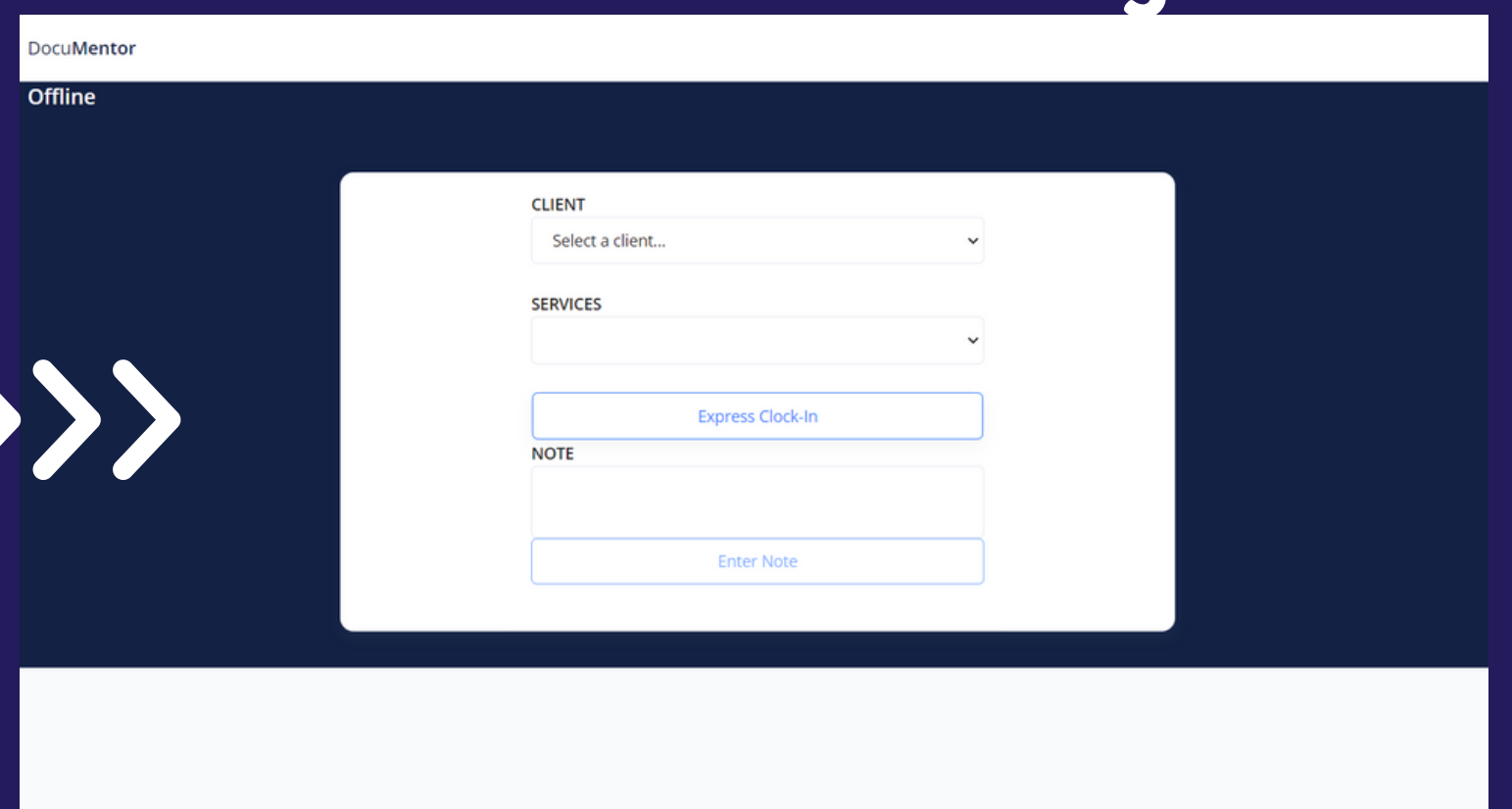
**Languages:** Ruby, HTML, CSS, and Javascript



## Original Online Page



## Our New Offline Page



## Conclusion

Now with our addition to the software, a user who loses an internet connection can still seamlessly record their visit while offline.

## Acknowledgments



**Faculty Mentor:** Huseyin Ergin, Ph.D.

**Mentor:** Evan Fischer

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