



Knight Foundation School of Computing and Information Sciences

Summer Semester 2024 Senior Design Project

Material Atlas

Students: Daniel Brizuela , Laura Penza , Hansel Soberao , Thuong Nguyen

Mentor: Layla Wu, FIU

Instructor/Faculty: *Dr.Masoud Sadjadi* , Florida International University

PROBLEM

Project lacked stable hosting and management of the database and website , while also missing critical functions needed to properly upload, display and categorize the uploaded data.

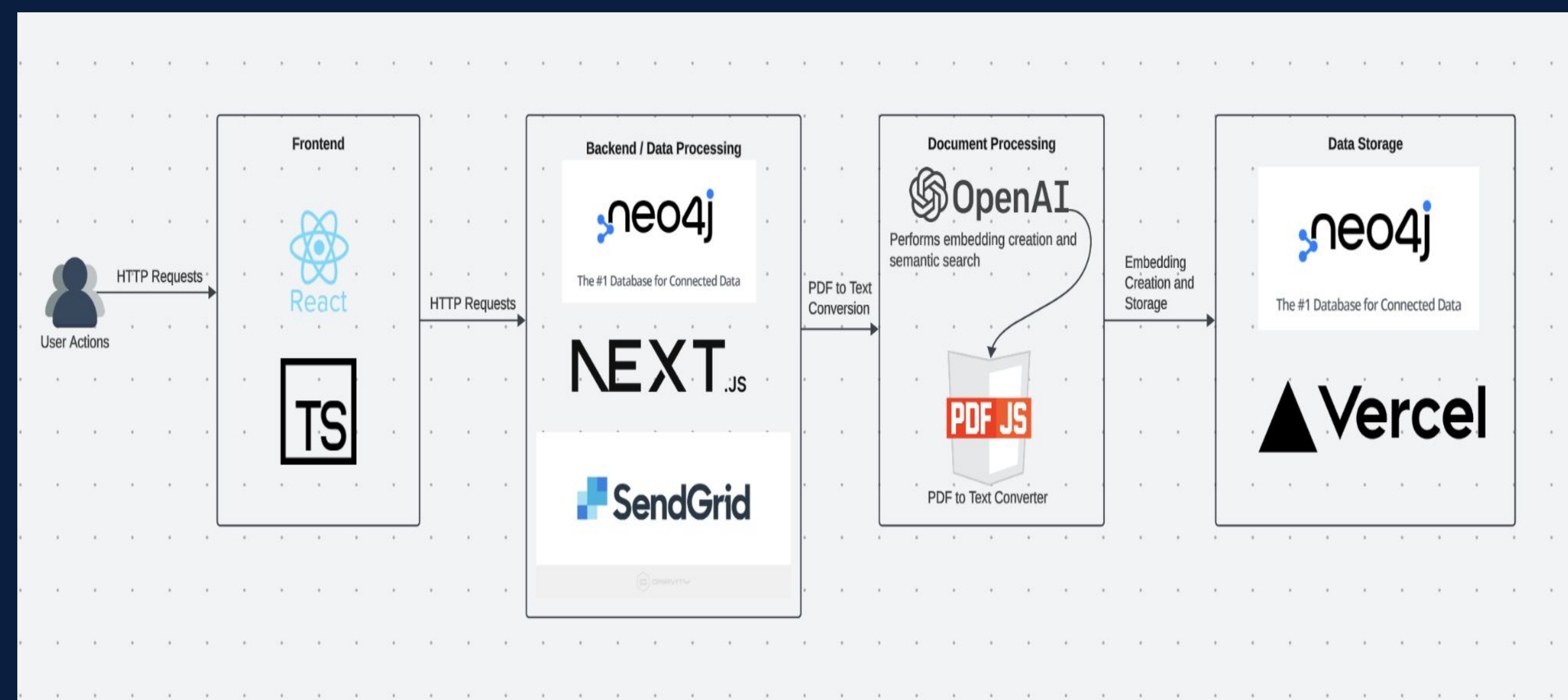
CURRENT SYSTEM

Project had an existing foundation from past teams. Our focus this term was to improve the functional capabilities of the project in the direction of user registration/login, security features and a more streamlined navigation throughout the website.

REQUIREMENTS

- Stable hosted website and database.
- Improving website interface with better navigation features and user/admin interfaces.

SYSTEM DESIGN



SUMMARY

Setting up server in Vercel for hosting and creating a Neo4j cloud database for storing website data. The purpose of the project is to create a platform for material scientists and engineers new to the field and more casual users to share information and resources to help develop coastal communities.

ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by Dr. Masoud Sadjadi. We thank Lyla Wu for her assistance and mentorship that I/we received throughout the senior design project.