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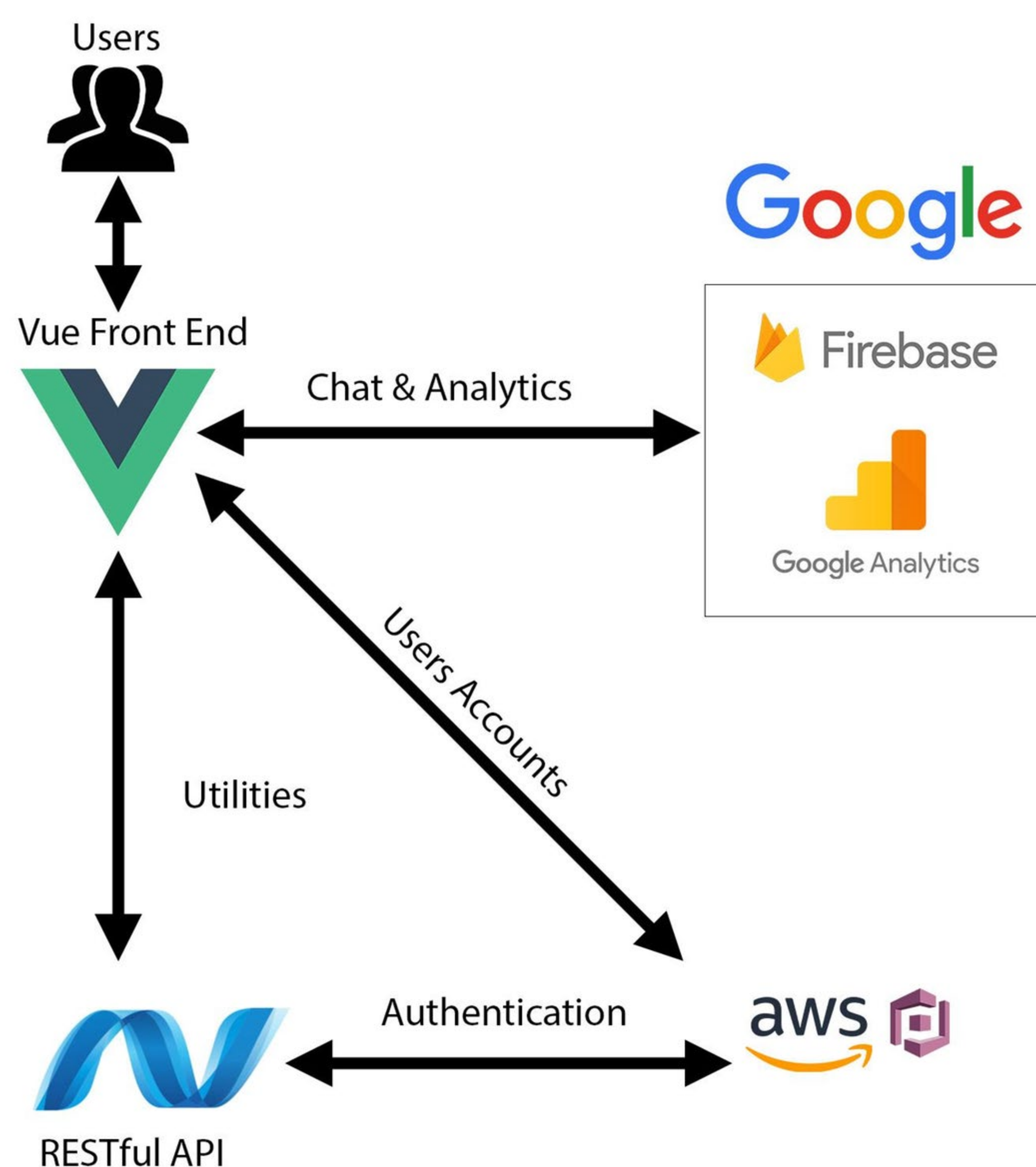


Abstract

The primary goal of AccessMyResearch (AMR) is to function as a non-profit organization that hosts a search engine and databases to serve as a single, massive repository of research and publications, and bring people together into an online, academic network. Our group had several focuses on the path to achieve this goal, all centering on developing the website to support a wide range of users who might want to find and read online publications. Some of our achievements include adding the ability to find an author's contact information from an article, user website authorization, uploading publications directly to an AMR repository, a method to donate to AMR from the website, a live chat session between logged in users, and a few other account management pages.

Key words: Web Development, VueJS, Agile

Architecture



Front End

- The users is able to access the website via the Vue.Js webpage.

Chat & Analytics

- The front end is hook up to the google suite which provide Firebase and Analytics. Firebase is currently use for messaging functionality, but could further be expand to host file. Analytics is being use to store the website data like active users or page visits

RESTful Api

- The RESTful Api is implemented in ASP .NET Core and provides utilities such as uploading, Email scraping, and user authentication.

AWS Cognito

- The accounts on the website is being handled by AWS cognito, which provides us with the ability to add custom attribute, add user roles, and add/delete users.

Impac

- Created a foundation of code and functionality for future expansion
- Implemented several key features related to uploading, searching, and managing publications
- The 3 AMR groups' effort combined progressed the AccessMyResearch website significantly towards the goal of going live to local institutions.

Performance Metrics

- Completed 5 2-week sprints
- Stories (tasks) were assigned at the beginning of each sprint
- At the end of each sprint, each pair presented the stories they completed
- Of the 21 stories our group was assigned, we successfully completed 19 of them by the end of their respective sprints

Summary

Due to the usage of Agile principles, the focus of this group, and even the pairs within the group, varied from sprint to sprint. For the most part, our contributions focused on building on different parts of the website, such as a page to allow users to upload research publications to AMR, a page to showcase a user's recent/favorite publications, and a chat system for logged in users to interact with each other.

We also focused on implementing role-based authentication to allow/disallow users from doing certain things on the website based on their permissions, such as only verified expert users are allowed to upload publications.