

CS Special Topics Semester 2 Project

Our goal



Our first project was a game,
for this one, we wanted
something practical



Having experience of building
full-stack solution as a team



Ability to find methodology
that fits our use case

The Premise...

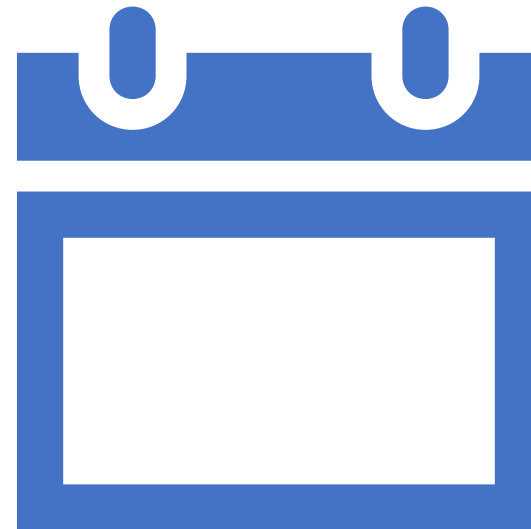
We want to make a website that manages calendars and events. There are other calendar websites, but they lack a lot of helpful functions that we think we could incorporate into our own website. We plan to make ours more user friendly and functional as well.



Actual functionality

Plan-It will be able to:

- Create an Account with profile page to Manage a Calendar
- Create, Edit, Delete, Events



Take a look at our site

Our GitHub

- <https://github.com/Plan-At/>

Landing Page

- <https://752628.xyz/>

Calendar Page (require authentication via the frontpage)

- <https://calendar.752628.xyz/>

API Documentation

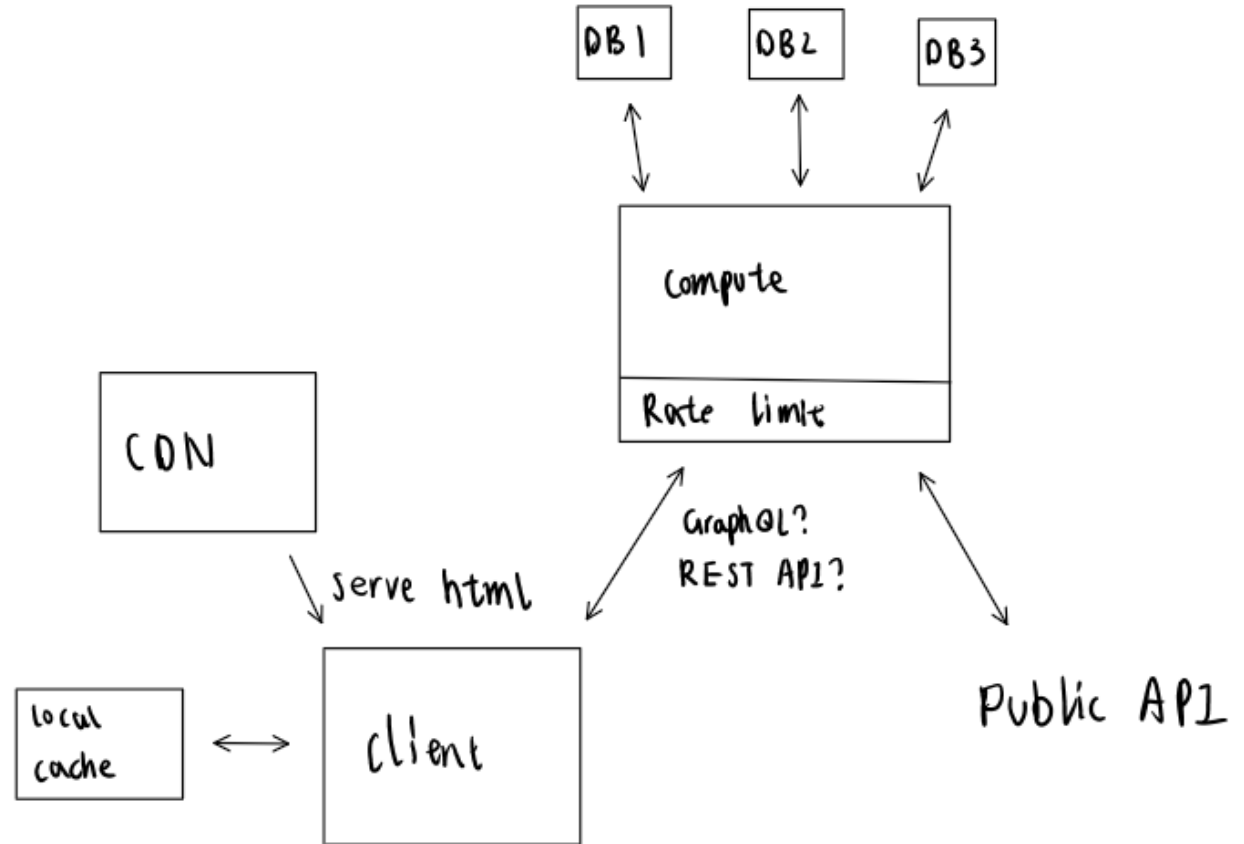
- <https://api.752628.xyz/>

Alternative client (Outdated)

- <https://client.752628.xyz/>

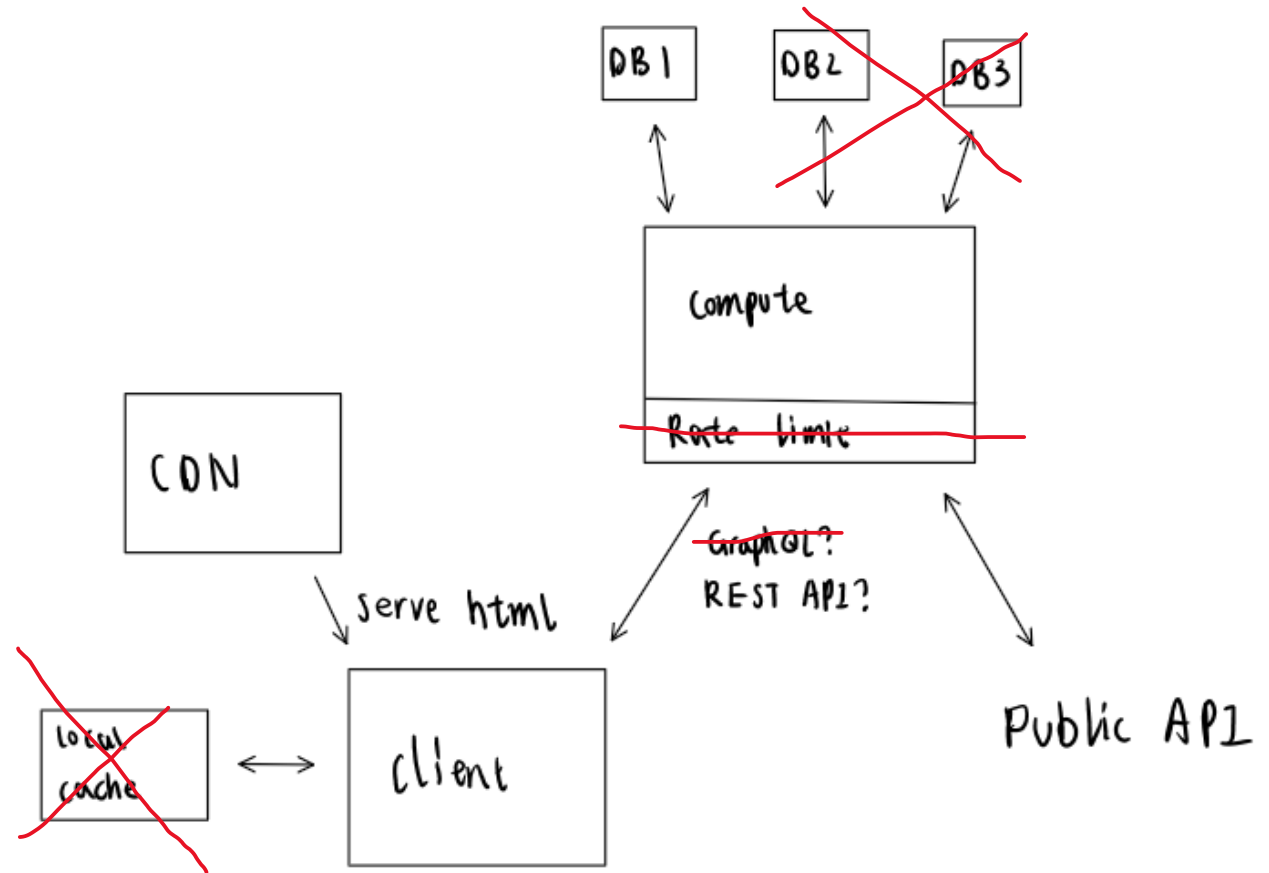
Planned Structure

- Protocol setup for client-server relations
 - ~~Partial Cloud Native?~~
 - API first?
- Ensures security and safety of data (authentication)
- Clean and allows other theoretical services to use our system



Actual Structure

- REST API for client-server communication
 - Design to compatible with multiple variant of clients
- Ensures security and safety of data (authentication)



Tech stack we're using

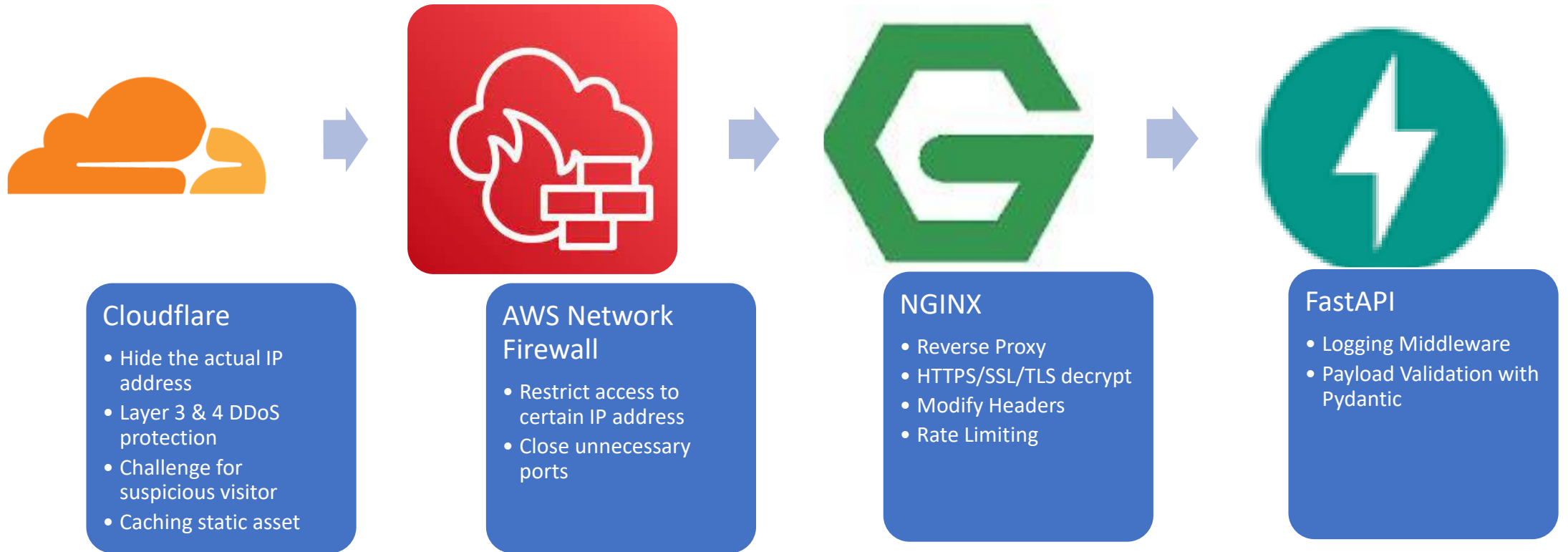
Frontend

- Web based
 - Resizable to different screen
- Vanilla JavaScript only
 - jQuery for loading navbar and footer
 - No npm, no webpack, so SSR, etc.
- We created our own "" to insert elements as an object

Backend

- FastAPI
 - Batteries Included
- Document Database: MongoDB

Network Structure



Financial Cost

Thanks for the generous free tiers offered by these companies, we've able to bring the product/demo to live

- Webpage Hosting:
- API Hosting: AWS' 12 months EC2 trial
- Database: MongoDB Atlas' 512MB always free
- Proxy:
- Domain: An all-digit .XYZ domain costs \$0.99 for registration and renewal