Shared Schedule App

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Main Goal:

A simple shareable schedule could save a lot of time when searching for free time in the day where a group of team members could come along to discuss, brainstorm, or even for casual talk. We would like to provide the users with a shared schedule application, which takes in the user's time slots of when they would be busy (so the start time, end time, and the name of the user, usually taken from the login credentials) and then the server would compute the time slots of common free time across all the users. We would use a database, running in a Linux environment, where we would just store the time slots.

Motivation:

Setting up a meeting or relaying your schedule to a group can be very cumbersome. In an email, you'd have to specify which dates and times you are available all through text. In addition, there is no way to visualize other people's schedules and whether there is an open spot available for everyone. We want our app to be the google docs of schedules--easy to create, share, and schedule.

Technologies:

Our goal is to incorporate a public cloud like GCP / AWS. We will also be incorporating MySQL to manage our database that stores user's availability. The frontend will be built with a single page application using React.

How the architecture of the system will look:
- 1 database server. Which stores all the user data.
- 1 compute server. Which will facilitate the interaction between the user and database
- VM for the front end. Where the user will be able to run query

    They will be connected by containers and talk to each other via those containers. Since we have not touched on that topic yet, we will add to this document accordingly.

How the tasks will be divided:
- Front end: Krithik, Aristos, Alex
- Database server: Krithik, Aristos, Alex
- Compute Server: Krithik, Aristos, Alex

We want the tasks to be divided to everyone since we want to use this as a learning experience for different technologies.