MessageToMe App

Architectural description

MessageToMe use a Client/Side architecture.

Server Side: Node, Express and Apollo Server Client Side: Apollo Client, React, Javascript

Instead of classic REST Api, MessageToMe use GraphQI Api

Reasons behind my choices

I chose to use GraphQI because it's a new technology that help to reduce data fetching and the number of requests needed for retrieve data required.

Apollo Client and Server because are perfect fit with graphQl api.

Node/React because I'm using every day those technologies ad it was easier coding for me with those.

All assumptions I made

Initially the idea was to use MongoDB as database but I haven't had enough time for it so I used inMemory cache provided by Apollo Client. The main problem not having a database is that the chat test is available only for the fake users that I create:

```
#user 1
{
    username: nico,
    password: nico,
}

#user 2
{
    username: mari,
    password: mari,
}

#user 3
{
    username: joseph,
    password: joseph,
}
```

I've tried to use websocket/subscriptions that works well server side if I use the graphiql endpoint http://localhost:4000/graphiql but I was in trouble client side so for realtime update messages I've used polling option in Apollo Client.

Password it's not encrypted and I check directly during the login if user exist and if the password is wrong. For responsive design I've used media query in css files.