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Web Service Design

### Problems Encountered

While our group did manage to meet all of our functional requirements and have the application working as we wanted, we still faced a few problems along the way. The first problem was inexperience. With this being the first web development experience for both of us, getting started was a bit of a lengthy process, but once we had a handle on node.js, things became a lot smoother, and especially once we realized that we could use node.js to establish a connection with a user. Getting information with Twitch was a bit rough, since that basically resulted in having to build a Twitch chat bot<sup>1</sup> using Javascript, and the Google Translate API was a bit particular about how it had to be handled, and that took quite a while to adjust to handling, but those were the only real hurdles in handling the major functionality of our project. It also took a little while to figure out how to get the pop out window to work with copying the chat along with formatting it correctly but it turn out to be fairly simple to implement.

All of our functions for our working functionality is documented through comments in the “app.js” and “index.html” files.

## Definitions

<sup>1</sup>A chat bot is a program that enters a Twitch chat under a Twitch account and responds to commands and messages in chat, and they are usually helpful little tools that streamers willingly choose to have in the chat. For our purposes, the chat bot never sends any messages to the chat, it simply listens for messages and retrieves them when they come.