Test - Full Stack Engineer

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Build a Realtime chat application(single channel) with emotion detection.

Requirements

* User registration page accepting basic details like desired username(check for uniqueness), name, email address, password.
* Login page for user accepting email address and password.
* Chat page where user can see list of other Logged-In users, Send and receive the messages on the channel, View video chat enabled user's video feed. Enable your video for others to see.
* Display one emoticon or emoji against each line of text from these :) or :( or :| depending on emotion detected from the text.

Area of Focus

* Ingenuity.
* Cleanliness of Code.
* Code Reuse.
* Structuring of Code and Codebase.

Time Limit: 1 week

NB

* Choice of usage of frameworks is up to the test taker. Suggestions: ExpressJS, Loopback, Flask, Django, Angular, React etc.
* Feel free to use any API for Sentiment Analysis. Suggestions: AYLIEN(https://developer.aylien.com), IBM Watson Tone Analyzer API(https://www.ibm.com/watson/services/tone-analyzer/) etc.
* Database to be used is up to the test taker.
* Git versioning the code would be encouraged to constantly track progress. Please send back the Git Repo URL as soon as it's created.
* Hosting the solution on the web would be appreciated. Use services like Heroku etc.
* **Bonus Points** for adding ability to send Emojis in the text.
* Don't limit yourself to the requirements as it's just a basic guideline for you. Any extra functionality built-into the product would be considered for evaluation.