MINI PROJECT

FIFTH SEMESTER PROJECT PROGRESS EVALUATION REPORT

CONTEXT BASED REAL TIME COMMUNICATION WEB APP

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Under the Guidance of Prof. Dr. Shivaprasad

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Introduction

The initial goal of the project was to create a real time communication based web app that can use other forms of representing text such as LaTex and Markdown input with other context based messages. But this is a very high and difficult to achieve target for a 52 hour course workload. To put this in perspective Whatsapp and Facebook messenger with their army on engineers also haven't been able to achieve this on their production app that is used by more than a billion people!

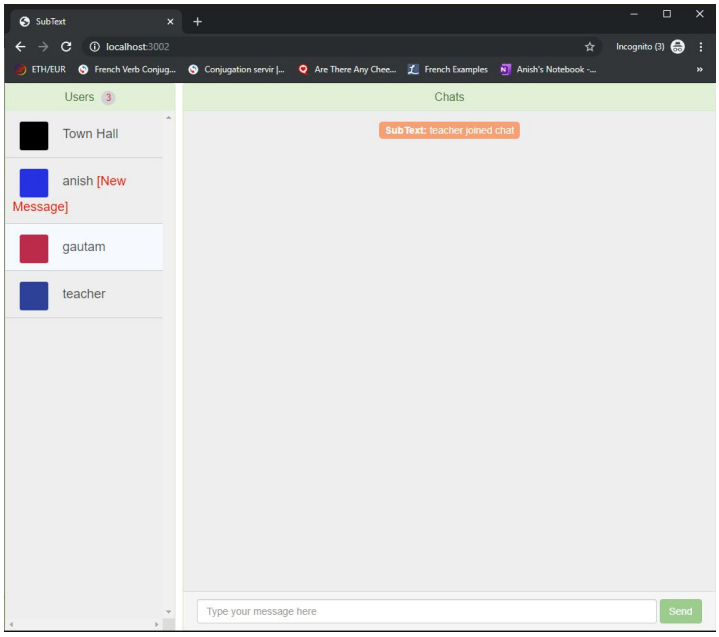
So, the initial target was shortened to include only markdown and LaTeX support which in itself is a very big target and even without a communication web app, just creating an online compiler that can understand all three - normal text, Markdown syntax and LaTex is an achievement in itself.

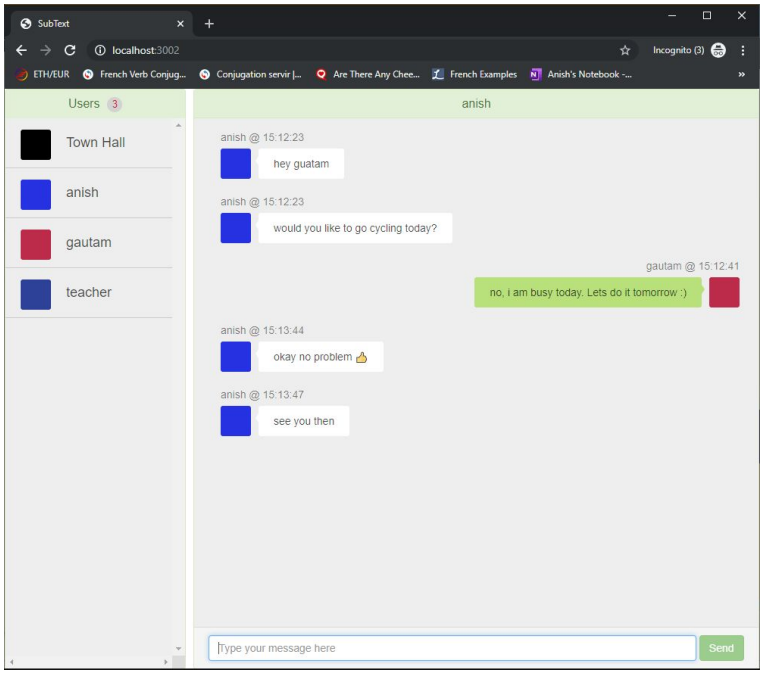
5th Semester Progress

What I have implemented for this semester is to create the core web app and the complete wireframe that supports multiple people logging into the web app with different usernames and then write text messages with emojis and text to each other and also to a common Town Hall channel where all participants can chat to each other and there is also a chatbot from SubText that reports as new participants join and as old ones leave the webapp.

Person To Person Chatting

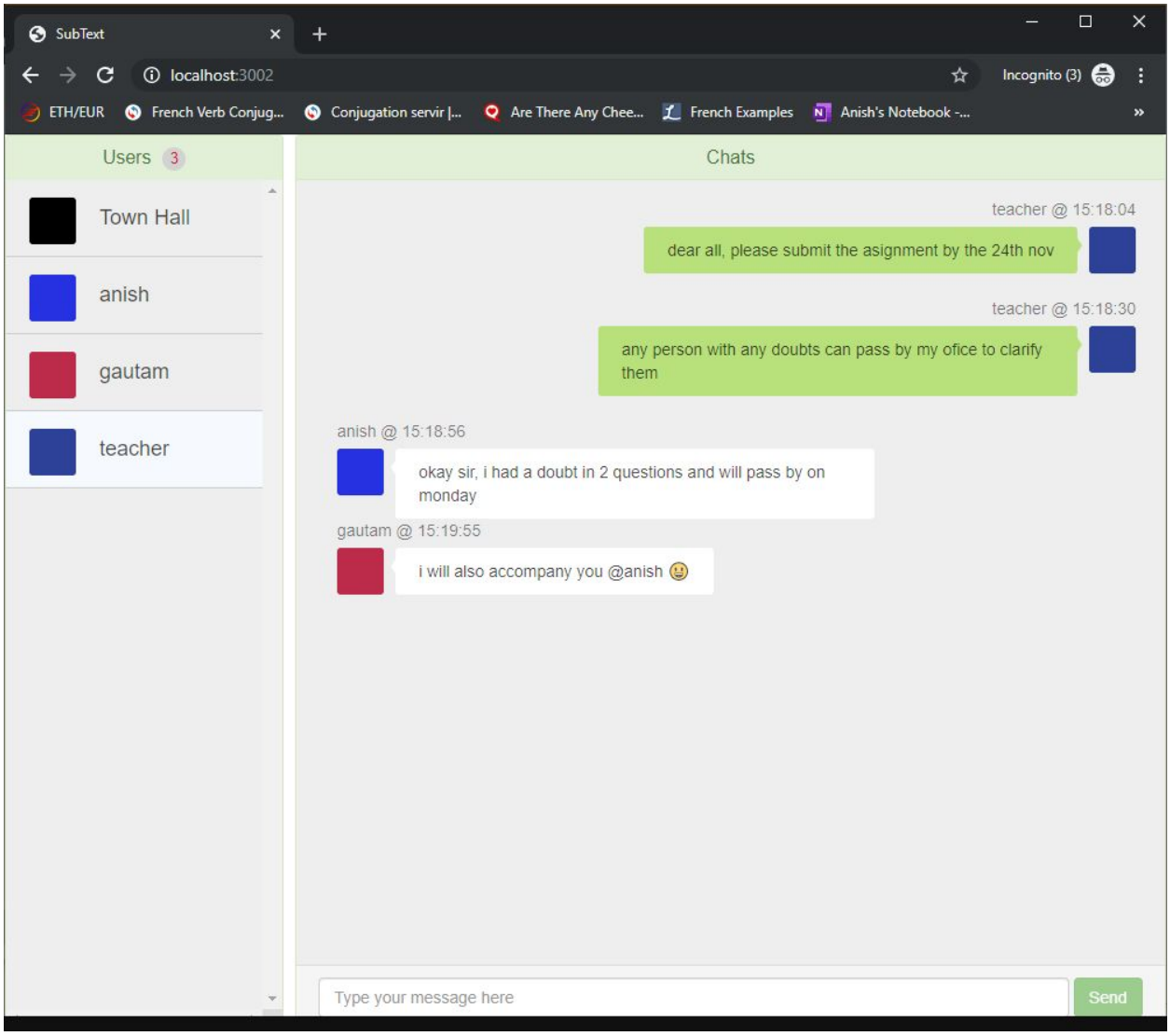
In the SubText web app any 2 persons that are online can chat together privately and securely in real time.





Town Hall (Group Chatting between all Active Peers)

All active persons in the webapp SubText can chat to the collective by writing and sending messages on the TownHall channel. All messages sent to this channel are visible to all parties and there is even a chatbot by the SubText app that announces whenever someone joins or leaves this chat group.



Accessing the Project

The project is available as an open-source project on GitHub at https://github.com/anishLearnsToCode/subtext-client and the docuentation onrunning it and building it can be found under the README.md file at https://github.com/anishLearnsToCode/subtext-client/blob/master/README.md. Any progress on the task can be systematically tracked through its lifetime by having a look at the commits and features can also be requested from the author (https://github.com/anishLearnsToCode) by creating Pull Requests or direct reqests at https://github.com/anishLearnsToCode/subtext-client/pulls.

Next Semester Tasks

The next tasks are even more daunting and difficult that is adding Markdown and LaTeX support which will both be done next semester. A CONTRIBUTING.md file will also be created so as to promote contributions from the open source community in the future.