

PROPOSAL FOR P.SOC 2020(MENTEE)

Name: Pratham Goyal

Email-Address: w3.goyal@gmail.com

Contact channel: +919988841409(Calling), +919988034040(Whatsapp),t.me/PrathamGoyal(Telegram)

Resume: [linkedin.com/in/pratham-w3/](https://www.linkedin.com/in/pratham-w3/), prathamgoyal.tech/cv.pdf

Blog or personal website: <https://prathamgoyal.tech/>

Github: <https://github.com/TheRealTechWiz/>

Location: Chandigarh, India

Proposal Title: Crossend

Motivation for Proposal:

The project is based on a real world problem and would have a practical application. Also the idea behind the project is quite interesting. Sharing big files between devices is a problem we all face.

I have already previously worked on MERN stack. The socket.io is completely new to me so it is something I am really looking forward to learn.

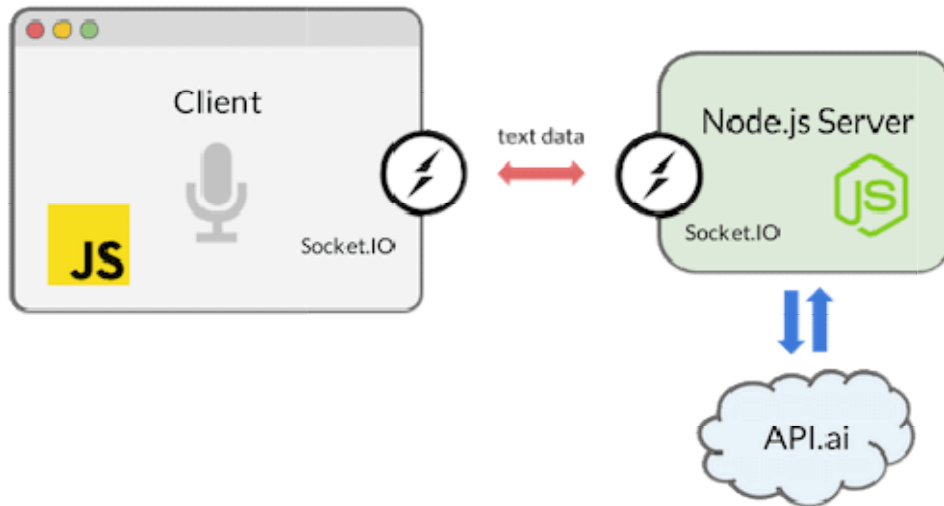
Goals:

- 1) Figuring the problems in current implementation and expectations from new version.
- 2) Making UI of the app using React.
- 3) Sending and receiving text from one device to the other.
- 4) After successful sending of text we can send documents from one device to other.
- 5) Finding bugs and making the app production ready.

Implementation Details:

- 1) Firstly the current code will be analyzed and ideas will be taken for further implementation. Bugs in the current app will be noted and it must make sure that these bugs don't come in the newer version of the app.
- 2) After UI of the app is made then logic of the app is to be coded. This will be done in Node.js and express.js.

- 3) Although I have a basic understanding of React, Node, Express I will brush up my concepts of the same.
- 4) Since I am completely new to socket.io I will learn about it from <https://socket.io/get-started/> and <https://www.tutorialspoint.com/socket.io/index.htm>.
- 5) After learning all the basics required for the app. I will get started to figure out how to send text from one device to the other device.



- 6) After successfully sending text from one device the other I will try to send images to different devices. This task will be most challenging out of all the tasks. Unlike text images and documents can't be sent in HTML.
- 7) Last step would be to find bugs in our app and make it production ready. Also the performance of the app will be checked. Tools such as Mocha, Synk, Source Clear can be used for this purpose.

Tentative timeline:

- 1) Gather a basic understanding about the current code. (Week 1)
- 2) Write documentation explaining the understanding of the current code with its bugs and further implementations. (Week 2)
- 3) Learning about Socket.io and making UI of the app. (Week 3-4)
- 4) Transferring text from one device to other. (Week 5)
- 5) Transferring images and documents from one device to other. (Week 6)
- 7) Finding and fixing the bugs in the made application. (Week 7)
- 8) Write documentation explaining the final implementation of the update mechanism. (Week 8)

About Me:

I am a 2nd year engineering student from UIET. I am an open source enthusiast who loves learning and exploring new things. I am currently learning web development using MERN stack. Most of my projects can be found at <https://prathamgoyal.tech/#projects>. Code can be found at <https://github.com/TheRealTechWiz/AllProjects/tree/master/WebApps>