**Feature list :**

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**Back-end work** :

*I will be first implementing the OTR encryption chat and then plans to link it with lets-chat*

OTR encryption :

* Read about OTR encryption and go through the documentation of lets-chat
* **Generate long lived key :** This step is going to be expensive as it might take seconds
* Since OTR uses new key for each message, for each receiver, the sender wishes to communicate to, **instantiate an OTR object**
* Implement function to send a message to the receiver
* Implement function to receive a message to the sender
* Ensure Symmetric key encryption
* Ensuring the sender’s message is encrypted to obtain cipher text
* Ensuring the receiver’s message is decrypted to obtain plain text
* Close private connection when the chat is closed

Others :

* Display status online/offline
* Display fingerprints
* Resolve bugs if any
* Maintain proper documentation of back-end work