**Summery Approch:**

Step 1: Discussing Problem and finding different solutions.

Such as covert using AI, manually, %match conversion.

Step 2: Setting up environment best matches the problem solution

E.g.: react as it is best for web app in comparation with Nextjs and flask for socket io and python for unlimited exploration (as python supports ML/AI,etc.)

Step 3: Discuss the plan and solution way

e.g. we decide to

1. First, we create a UI for chatting with the simple text in real time (as no one has real time data connection experience)
2. Then we use 2 ways to translate, manual and using ai.
   1. A button is placed at top with ai mark when user click it became active and now conversion take place through OpenAI API data Fetching
   2. When button is dis active then data is manually change using the long dictionary containing the word with its respective emoji

But Open AI Api give 429 error (excess limit even after 1 request so we decide to find other Api for this task but none are that much effective and **in last we leave AI API translation due to paid API of OpenAI**)

Step 4: After Basic UI a parallel server is establish (local of course) that have Api for

1.Sign

2. log in

3. add friend

4. set all message read of person by other (**Leaved later due to lack of time**)

Step 5: for storing these data 3 tables are created

1. User: with id, name, password, phoneno
2. Friend: with id1, id2
3. Chats: with message, senderid, receiverid, sendTime, receive time
   1. Message, senderid and receiverid is not set defult bur sendtime is set to current timestamp and receivetime to null

So if **receivertime is null** then user **hadn’t seen that text**

Step 6: then we started work on web sockets but this is entirely new syntax for us, so when we perform simple task then it works fine and when we try to write some complex logic it fails due to bug came because of lack of knowledge.

Step 7: finally a alternative way is used to remove the complex logic as time is clicking out.

Step 8: then final task is done that is to collect and store emoji from chat GPT and other plate form as manually it takes a lot of time.

Step 9: updated UI UX and added customization feature page, which is already planned in first place.

Step 10: finally, ppt is created and then documentation and lastly, I am writing the summery of it!

Thanks,

For reading this

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