EDUBOT

PROBLEM STATEMENT : Due to the pandemic there was a need for students to study remotely without the presence of a teacher. There were many schools who lacked facilities to have online classes. So the students have to wait to get their doubts cleared.

PROPOSED SOLUTION: To Create an Online Chatbot Software System that provides a User-friendly Interface which enables Students to Clear their doubts in any subject, thereby Making Learning Easy and Effective through Technology.

OBJECTIVES:
1. To increase educational awareness among people
2. Simple and user-friendly
3. To help students clear their doubts
4. Prevent misclarification of concepts among students
5. Provide a better interactive interface where learning meets fun

TECH STACK:

The edubot is done using the following tech stack

- HTML,CSS,JS- for creation of static web pages such as home page,about us,review,demo video and calculator

- GOOGLE DIALOG FLOW- For creation of chatbot and for integration in telegram. In this we provided questions as intents and their theme as entities provide the keywords so that any form of question regarding the particular theme could be answered. Then the integration is created and linked with telegram. Fallback Intents are also given for better user experience and to avoid unparliamentary languages.

- REACT JS - It is a front end web framework used for creation of chatrooms. As students require personalized chat rooms and networking with other students we have facilitated this. Basically the server runs on node.js and front end web framework is react,redux and server and client connection is done using socket.io

LIMITATIONS:
- Less demographic of students concentrated so upscaling remains a challenge
- Bot requires net so proper net must be there for hassle free access
- The bot sometimes recognizes mispelt word as a keyword

FUTURE IMPLEMENTATIONS:
The idea can be used to create a chatbot exclusively to a particular educational institution so that the teachers can update their own set of questions and students can seek answers to their questions at any point of time without the teacher's intervention.

It can be used as an educational reform for underprivileged children where students do not have the exposure to high network quality and resources.