TEAM 23

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VIRTUAL BOOKCLUB
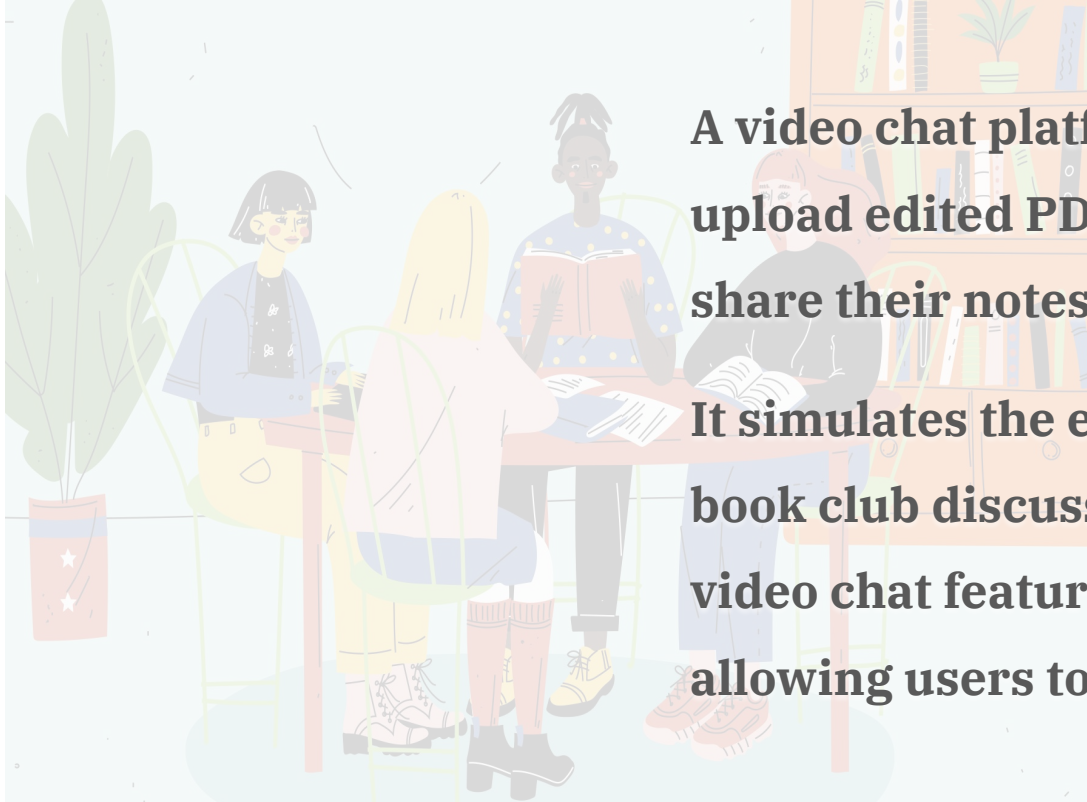
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Agenda

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1. Background

2. Design

3. Sprint Goals

4. Model

5. Sprint Completed

6. Progress & Problems

7. Next Sprint

Background

A video chat platform that allows users to upload edited PDFs of book chapters to share their notes with other book lovers.

It simulates the experience of a face-to-face book club discussion through synchronous video chat feature, and further elevates it by allowing users to download others' notes.

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REGISTER

LOG IN

Sprint #2 Goals

1. Finish login, register, landing, stream
    pages UI
2. Finish Multi-room chat
3. Finish room creation and delete
4. Complete cloud deployment

Sprint completed

➔ Upload/download PDF

➔ Finish login, register, landing, stream pages UI

➔ Multi-room chat on Local End

◆ User enters the app -> types in a username and a room name -> if this room exists already, gets led to the room; if a room with this name does not exist, form a new room and join this new room

◆ In a chatroom, the user can see videos, text messages of other users in the room

➔ Websocket on https environment

◆ Websocket is applied to establish communications that send video streams across users

➔ Room creation on local end

➔ Video chat is deployed on cloud and works properly

`Problems`

➔ **Websocket Connection establishment is slow (~1 or 2 mins)**

◆ Websocket connections work properly on local and http environment (using ws protocol)

◆ For https environment, wss websocket connection is slow; a new device joining a room will take more than 1 minute before socket connection is established and other users receive the new users' video track

◆ Lack of useful resources online regarding this issue

➔ **Turn and Stun Server Setup**

◆ So far, we set up turn server to send video stream and message across different devices. We used a public stun server hosted by Google. However, when we run tests, we get errors, which we are still researching how to resolve.

Works remained

➔ **Must-haves**

◆ Room creation/deletion

◆ Deploy on cloud with room creation features

◆ Testing the deployed site

➔ **Nice-to-haves**

◆ PDF Annotation

◆ Display PDF

◆ Delete post

◆ Delete comment

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Thank you!📚