IQRA University, Islamabad, Chak Shahzad

(Working Progress)

For

Futsal Field Reservation System

By

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Week-7: Working on Chat Bot integration between Team Owner and Ground Owner

1.Chat Feature Integration

- Developed backend APIs for chat functionality between team owners and ground owners.

- Created the following REST endpoints:

- POST /api/chat/send — to send chat messages.

- GET /api/chat/conversation/:otherUserId — to fetch conversation between two users.

- PUT /api/chat/mark-read — to mark messages as read.

- GET /api/chat/my-messages — to fetch the user's chat list.

Implemented JWT-based authentication middleware (authenticateToken) to protect chat routes.

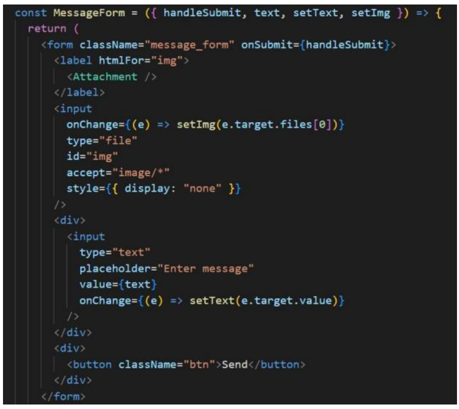
2.Bug Fixes

- Fixed ReferenceError: authenticateUser is not defined in authentication middleware and chat routes.

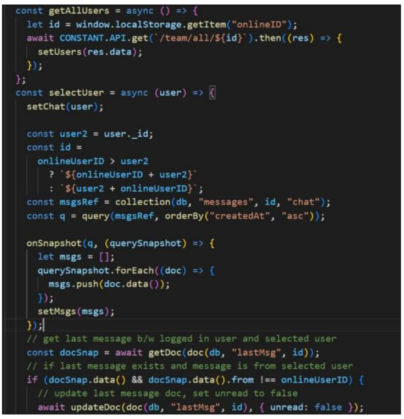
- Cleaned up route imports and properly aliased authentication functions.

- Fixed Cannot GET /api/chat/conversations error caused by misconfigured routes.

Working continuous on chat bot:



```
const MessageForm = ({ handleSubmit, text, setText, setImg }) => {
  return (
    <form className="message_form" onSubmit={handleSubmit}>
      <label htmlFor="img">
        <Attachment />
      </label>
      <input
        onChange={(e) => setImg(e.target.files[0])}
        type="file"
        id="img"
        accept="image/*"
        style={{ display: "none" }}
      />
      <div>
        <input
          type="text"
          placeholder="Enter message"
          value={text}
          onChange={(e) => setText(e.target.value)}
        />
      </div>
      <div>
        <button className="btn">Send</button>
      </div>
    </form>
```



```
const getAllUsers = async () => {
  let id = window.localStorage.getItem("onlineID");
  await CONSTANT.API.get(`/team/all/${id}`).then((res) => {
    setUsers(res.data);
  });
};
const selectUser = async (user) => {
  setChat(user);

  const user2 = user._id;
  const id =
    onlineUserID > user2
      ? `${onlineUserID + user2}`
      : `${user2 + onlineUserID}`;
  const msgsRef = collection(db, "messages", id, "chat");
  const q = query(msgsRef, orderBy("createdAt", "asc"));

  onSnapshot(q, (querySnapshot) => {
    let msgs = [];
    querySnapshot.forEach((doc) => {
      msgs.push(doc.data());
    });
    setMsgs(msgs);
  });
  // get last message b/w logged in user and selected user
  const docSnap = await getDoc(doc(db, "lastMsg", id));
  // if last message exists and message is from selected user
  if (docSnap.data() && docSnap.data().from !== onlineUserID) {
    // update last message doc, set unread to false
    await updateDoc(doc(db, "lastMsg", id), { unread: false });
```

Supervisor Review:

Week-8: Continuously working on Chat Bot

1. Frontend Chat Logic

- Integrated chat API calls in the front-end dashboard for team owners.

- Debugged the front-end issue where Chat with Ground Owner

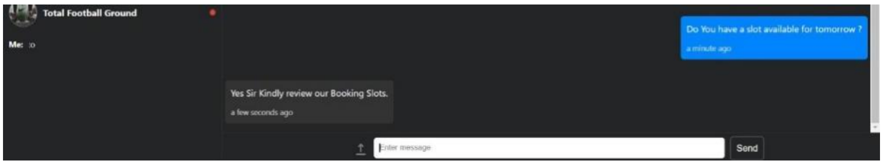
- Updated the frontend to handle cases when no messages exist yet between users

2. Start testing the chat bot between Ground Owner and Team Owner

- Finalizing chat UI improvements to allow starting a chat even before the first message is sent.

- Connecting chat feature with booking details (so that each chat can be linked to a specific booking).

Testing Chat Bot :



Total Football Ground

Me: :o

Do You have a slot available for tomorrow ?

a minute ago

Yes Sir Kindly review our Booking Slots.

a few seconds ago

Chat feature is now about 80% completed.Still Working on chat bot .

3. Still working on CSS Style to make improvements

- Clearing the default issues which is occurred during the frontend changes

- Working on boxes and Backgrounds of styling

- Changes in CSS Styling and Frontend requires all time.

Supervisor Review:

Upcoming Week Plan

Priority 1: AI Chat Bot (Right Now the AI chat bot is not adding because of the Extensions of AI chat bot is expensive so that’s why on this AI CHAT BOT we integrate the chat bot in last days.

Priority 2: Final Testing Everything Works Properly