LNMIIT Meeting Scheduler

Problem Statement:

The conventional process of scheduling meetings at our college involves tedious back-and-forths, making it time-consuming and prone to errors. To streamline this, we propose a solution that integrates with Google Calendar and allows users to efficiently identify and book common free slots based on the availability of participants in Google Calendar.

Tech Stack Used:

- **Frontend Framework:** ReactJS with Vite
- **Styling:** Tailwind CSS
- **Integration:** Google Calendar API

Steps:

1. **Login with LNMIIT ID:** Users must log in using their LNMIIT ID for authentication.

2. **Participant List:** Users can input a list of email IDs of people they wish to invite to the meeting. Bulk input is supported for convenience.

3. **Date Selection:** Choose the desired meeting date from the provided calendar.

4. **Fetch Availability:** Click the "Fetch" button to retrieve and visualize free slots of participants from 8 am to 6 pm (Default and can change accordingly).

5. **Visualization:** The right-hand side displays a simple visualization of free slots for each participant.

6. **Common Availability:** The bottom of the page shows the common free slots available for scheduling.

7. **Schedule Google event:** Users can click on a preferred free slot, and the app will populate the Google Calendar with the necessary details for easy meeting scheduling.

Future Work:

1. **Guidelines for Faculty and Staff:** Develop guidelines and encourage faculty and staff members to use Google Calendar for their classes and labs.

2. **Permission and Multiple Calendar Management:** Implement a robust permission system to ensure that the app has the necessary access to check free slots and can manage participants' multiple Google Calendars.

Challenges:

1. **Faculty Adoption:** Encouraging faculty and staff to consistently use Google Calendar for scheduling.

2. **Permission Handling:** Managing permissions for accessing and retrieving calendar data from participants.

3. **Integration Complexity:** Dealing with the intricacies of integrating with the Google Calendar API.

Screenshots: