# **Assignment for MERN Stack Developer**

### **Required Stack:**

• Frontend: React

• Backend: Express.js

• Database: MongoDB

• State Management: Any external library (Redux, Zustand, Recoil, etc.)

Timezone Management: Preferably dayjs or any suitable library

## Assignment Walkthrough (Recording Link):

https://www.loom.com/share/5528d6e35a184007a37e222949400279?sid=29d37e93-3098-4bc6-bfe1-429f5c

## **Project Overview**

Build an **Event Management System** where an admin can create multiple profiles and manage events across multiple users and timezones. where users can view, update, and create events, respecting their selected timezone.

## **Functional Requirements**

#### **Profiles**

- Admin can create multiple user profiles by entering a name.
- No functionality is required for deleting profiles.

#### **Event Creation**

- Admin (or any user) can create events for one or multiple profiles at the same time.
- Event fields:

Profiles: Select one or more users.
Timezone: Pick a timezone for the event.
Start Date + Time: Calendar + time selector
End Date + Time: Calendar + time selector.

#### **Rules:**

- End date/time cannot be in the past relative to the selected start date/time.
- Start and end times should respect the selected timezone of the user(s).

# **Event Viewing & Updating**

- Users can view all events assigned to them.
- Users can update all events assigned to them.
- Each event stores:

- ☐ createdAt (timestamp in user timezone)
- □ updatedAt (timestamp in user timezone)

### Multi-timezone handling:

- Each user can pick their own timezone.
- All events must display according to the user's selected timezone.
- Updating events should reflect properly across all users' selected timezones.

# **Bonus / Extra Credit**

## **Event Update Logs:**

- Whenever an event is updated, log the change.
- Show previous vs. updated values and the timestamp of the update in the user's selected timezone.
- If a user changes their timezone, all timestamps and logs should automatically convert to the new timezone.

### **Submission Requirements**

- 1. Github repo link and Live preview link.
- 2. Video Link explaining the project and its nuances
- submit here
   <a href="https://docs.google.com/forms/d/e/1FAIpQLSe7zrp9PXTaMo0zyxvOOCTDznlrkR5PuhigErwzXRWQWZ">https://docs.google.com/forms/d/e/1FAIpQLSe7zrp9PXTaMo0zyxvOOCTDznlrkR5PuhigErwzXRWQWZ</a>
   <a href="mailto:jwrA/viewform">jwrA/viewform</a>

## **SNAPSHOTS FOR INSPIRATION**















