## **Backend**

# Updated get\_queryset in views.py:-

```
def get_queryset(self):
    Override to return only events belonging to the current user.
    queryset = Event.objects.filter(user=self.request.user)
    start_time = self.request.query_params.get('start_time')
    end_time = self.request.query_params.get('end_time')
    if start_time and end_time:
        # Include only events that overlap the given range
        queryset = queryset.filter(
            start_time__lt=end_time, # Event starts before the end_time
            end_time__gt=start_time # Event ends after the start_time
    elif start_time:
        # Include events that end after the start_time
        queryset = queryset.filter(end_time__gt=start_time)
    elif end_time:
        # Include events that start before the end_time
        queryset = queryset.filter(start_time__lt=end_time)
    return queryset
```

## Key changes:-

#### 1. Time Range Filters:

- Added Parameters:
  - start\_time and end\_time are extracted from the request's query parameters.
  - These parameters allow filtering the events that occur within a specific time range.

#### Conditional Logic:

- If both start\_time and end\_time are provided, the queryset filters events that overlap this period.
- If only one of the parameters is provided, the function adjusts the queryset accordingly to include:

- Events that end after start\_time.
- Events that start before end\_time.

#### 2. Filtering Events by Time:

- The new logic ensures that only events occurring within the provided time window are included in the response.
- This change enables users to request events within a specific time range, improving usability, especially for large datasets.

# **Frontend**

## Updated getEvents() in Api.js:-

```
export const getEvents = async (startTime, endTime) => {
   console.log('Sending request to fetch events...');
   try {
      const params = {};
      if (startTime) params.start_time = startTime; // Add start_time to
   params

      if (endTime) params.end_time = endTime; // Add end_time to params
      const response = await api.get('/api/events/', { params });
      console.log('Events response received:', response.data);
      return response.data; // Return the event data
   } catch (error) {
      console.error('Error fetching events:', error);
      throw error; // Rethrow the error for further handling
   }
};
```

## \*\*Key changes:-

1. Passing parameters of startTime and endTime for proper filtering of events

## Updated in fetchEvents() inApp.js:-

```
const fetchEvents = async () => {
    try {
        const response = await getEvents(); // Ensure this function is called
    with necessary parameters if needed
        console.log('API Response:', response); // Log the entire response for
debugging
    // Check if response is an array
```

\*\*key changes :-

## 1. Response Structure Validation:

- Conditional Check for Array:
  - The original code directly accessed response.data, assuming the response structure is consistent.
  - The updated code checks if the response is an array using Array.isArray(response). This is crucial because the response format might change, and this validation prevents potential errors when trying to map over a non-array structure.

## Updated fetchEvents in EventList component:-

```
const fetchEvents = async () => {
  try {
    const response = await getEvents(startTime, endTime); // Fetch with date
  filters
    setEvents(response || []); // Ensure empty array if response is undefined
  } catch (error) {
    console.error('Failed to fetch events:', error);
    setEvents([]); // Show no events on error
  }
};
```

## **Key Changes:**

- **Fetching and Filtering**: Added ability to filter events based on a date range. The startTime and endTime states capture user input and pass it to the fetchEvents function.
- Handling Empty State: Displays "No events found" if no events match the filters.

# Updated the jsx in EventList.js and added textfields to pass startime and endtime as query:-