```
npm install @fullcalendar/react @fullcalendar/daygrid @fullcalendar/timegrid
@fullcalendar/interaction
npm install @mui/material @emotion/react @emotion/styled
// CalendarPlanner.tsx
import React, { useState } from 'react';
import FullCalendar, { DateSelectArg, EventClickArg, EventInput } from '@fullcalendar/react';
import dayGridPlugin from '@fullcalendar/daygrid';
import timeGridPlugin from '@fullcalendar/timegrid';
import interactionPlugin from '@fullcalendar/interaction';
import { Box, Dialog, DialogTitle, DialogContent, TextField, DialogActions, Button } from
'@mui/material';
const CalendarPlanner: React.FC = () => {
 const [events, setEvents] = useState<EventInput[]>([]);
 const [open, setOpen] = useState(false);
 const [selectedDate, setSelectedDate] = useState<DateSelectArg | null>(null);
 const [title, setTitle] = useState(");
 const handleDateSelect = (selectInfo: DateSelectArg) => {
  setSelectedDate(selectInfo);
  setTitle(");
  setOpen(true);
 };
 const handleEventClick = (clickInfo: EventClickArg) => {
  if (window.confirm(`Delete event '${clickInfo.event.title}'?`)) {
   clickInfo.event.remove();
  }
 };
 const handleAddEvent = () => {
  if (selectedDate && title.trim()) {
   const calendarApi = selectedDate.view.calendar;
   calendarApi.unselect();
   calendarApi.addEvent({
     id: String(new Date().getTime()),
     title.
     start: selectedDate.startStr,
     end: selectedDate.endStr,
     allDay: selectedDate.allDay,
   });
   setOpen(false);
  }
```

};

```
return (
  <Box sx={{ p: 2 }}>
   <FullCalendar
    plugins={[dayGridPlugin, timeGridPlugin, interactionPlugin]}
    initialView="dayGridMonth"
    selectable={true}
    editable={true}
    events={events}
    select={handleDateSelect}
    eventClick={handleEventClick}
    height="auto"
   />
   <Dialog open={open} onClose={() => setOpen(false)}>
    <DialogTitle>Add Event</DialogTitle>
    <DialogContent>
      <TextField
       autoFocus
       margin="dense"
       label="Event Title"
       type="text"
       fullWidth
       value={title}
       onChange={(e) => setTitle(e.target.value)}
      />
    </DialogContent>
    <DialogActions>
      <Button onClick={() => setOpen(false)}>Cancel/Button>
      <Button onClick={handleAddEvent} variant="contained">Add/Button>
    </DialogActions>
   </Dialog>
  </Box>
);
};
export default CalendarPlanner;
```