

Calendar Application for Communication Tracking

A React-based communication tracking system for managing and monitoring company interactions.

Features:

Admin Dashboard

1. Add companies
2. Track contact information and communication preferences
3. View company communication history.

Communication Tracking

1. Log past communications
2. Schedule future interactions
3. Multi-company communication support
4. Color-coded status indicators.

Calendar View

1. Interactive calendar interface
2. View past and upcoming communications
3. Color-coded events by communication type
4. Detailed event information on click.

Analytics Dashboard

1. Communication frequency analysis
2. Engagement effectiveness metrics

3. Overdue communication trends
4. Exportable reports (PDF/CSV)

Prerequisites

1. Node.js (v14.0.0 or higher)
2. npm (v6.0.0 or higher)

Installation

1. Clone the repository:

https://github.com/Saipraveen1234/Communication_Tracker.git

- `cd communication-tracker`

2. Install dependencies:

- `npm install`

Required Dependencies

Core Dependencies :

- `npm install @mui/material @emotion/react @emotion/styled`
- `npm install @mui/icons-material`
- `npm install @reduxjs/toolkit react-redux`
- `npm install react-router-dom`

Calendar Dependencies

- `npm install @fullcalendar/react @fullcalendar/daygrid @fullcalendar/timegrid @fullcalendar/interaction`

Chart Dependencies

- `npm install recharts`

Export Dependencies

- npm install jspdf jspdf-autotable

Running The Application

Start the Development Server

- npm start

It will automatically Navigate to the Port page, Incase if not use, By default it will run on port 3000.

- <http://localhost:3000>

Project Structure

```
.
├── Communication-Tracker/
│   ├── Public/
│   │   └── index.html
│   ├── src/
│   │   ├── components/
│   │   │   ├── Admin/
│   │   │   │   ├── AdminDashboard.jsx
│   │   │   │   ├── CommunicationParams.jsx
│   │   │   │   ├── CompanyList.jsx
│   │   │   │   ├── CompanyManagement.jsx
│   │   │   │   ├── CompanySetup.jsx
│   │   │   │   └── UserManagement.jsx
│   │   │   └── Analytics/
│   │   │       ├── AnalyticsDashbord.jsx
│   │   │       └── Insights.jsx
```

- | | | └─ Reports.jsx
- | | └─ Layout/
- | | | └─ Layout.jsx
- | | | └─ Navigation.jsx
- | | └─ User/
- | | └─ Calendar.jsx
- | | └─ CommunicationActions.jsx
- | | └─ CommunicationTracking.jsx
- | | └─ NotificationSection.jsx
- | | └─ TaskManager.jsx
- | | └─ UserDashboard.jsx
- | └─ redux/
- | | └─ slices/
- | | └─ communicationMethodsSlice.js
- | | └─ communicationTrackingSlice.js
- | | └─ companySlice.js
- | | └─ userSlice.js
- | | └─ store.js
- | └─ App.js
- | └─ index.css
- | └─ index.js
- └─ Package.json
- └─ Readme.md

Usage Guide:

1. *Start the Development Server*

- Navigate to the Admin panel
- Add new companies with contact details
- View and manage existing companies

2. *Communication Tracking*

- Use the Communications tab to log or schedule communications
- Select multiple companies for batch scheduling
- Add detailed notes and set communication types

3. *Calendar View*

- View all communications in a calendar format
- Click on events for detailed information
- Switch between month, week, and day views

4. *Analytics*

- View communication metrics and trends
- Filter data by date range and company
- Export reports as needed

Known Limitations:

1. *Data Persistence*

- Data is stored in Redux state and localStorage

- No backend database integration
- Data may be lost if localStorage is cleared

2. Performance

- May slow down with large amounts of data
- Limited to browser storage capacity
- Calendar view performance may decrease with many events

3. Browser Support

- Designed for modern browsers
- Limited support for older browser versions
- Best viewed in Chrome, Firefox, or Safari

4. Calendar Features

- No drag-and-drop event rescheduling
- Limited recurring event support
- No calendar sync features

5. Export Limitations

- Basic PDF/CSV export functionality
- Limited customization options for exports
- No direct email integration

Future Improvements:

Backend Integration

- Database storage
- User authentication
- API integration

2. Enhanced Features

- Calendar sync with Google/Outlook
- Email integration
- Advanced recurring events
- Mobile app support

3. Performance Optimization

- Data pagination
- Lazy loading
- Caching mechanisms

THANK YOU

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