

Google Calendar Integration Setup Guide

OAuth Setup Instructions

Step 1: Create a Google Cloud Project

1. Go to [Google Cloud Console](#)
2. Click "Create Project" or select an existing project
3. Give it a name like "FocusFlow-Scheduler"

Step 2: Enable Google Calendar API

1. In your project, go to "APIs & Services" → "Library"
2. Search for "Google Calendar API"
3. Click on it and press "Enable"

Step 3: Create OAuth 2.0 Credentials

1. Go to "APIs & Services" → "Credentials"
2. Click "Create Credentials" → "OAuth client ID"
3. If prompted, configure the OAuth consent screen first:
 - Choose "External" user type
 - Fill in app name: "FocusFlow"
 - Add your email as support email
 - Add authorized domains (for testing: localhost)
 - Add scopes: `../auth/calendar.readonly`
 - Add test users (your email)
4. For OAuth client ID:
 - Application type: "Web application"
 - Name: "FocusFlow Web Client"
 - Authorized JavaScript origins:
 - `http://localhost` (for local testing)
 - `http://localhost:8080`
 - Your production domain later
 - Authorized redirect URIs:
 - `http://localhost`
 - `http://localhost:8080`

Step 4: Get Your Credentials

1. After creating, you'll get:
 - **Client ID:** Something like `123456789-abcdef.apps.googleusercontent.com`
 - **Client Secret:** Keep this secure (not needed for frontend-only)
2. Also create an API Key:
 - Go to "Create Credentials" → "API Key"
 - Restrict it to Google Calendar API
 - Copy the API key

Step 5: Update the Application

In the `index.html` file, replace these lines:



javascript

```
// Around line 340-341
const GOOGLE_CLIENT_ID = 'YOUR_CLIENT_ID.apps.googleusercontent.com';
const GOOGLE_API_KEY = 'YOUR_API_KEY';
```

With your actual credentials:



javascript

```
const GOOGLE_CLIENT_ID = '123456789-abcdef.apps.googleusercontent.com';
const GOOGLE_API_KEY = 'AIzaSyB_your_actual_api_key_here';
```

Step 6: Test the Integration

1. Open index.html in a web browser
2. You should see a "Connect Google Calendar" button
3. Click it to authorize access
4. Your upcoming calendar events will appear
5. Events with "deadline" keywords will be highlighted for import

How It Works

Features Implemented:

1. **OAuth Authentication:** Secure Google sign-in
2. **Event Fetching:** Retrieves next 10 events from primary calendar
3. **Deadline Detection:** Automatically identifies events with deadline keywords:
 - "deadline", "due", "submit", "delivery", "final"
4. **One-Click Import:** Import Google Calendar deadlines as tasks
5. **Auto-Fill:** Clicking import pre-fills the task form

Security Notes:

- Client-side only implementation (no backend needed)
- Uses Google's official OAuth 2.0 flow
- Only requests read-only calendar access
- No data is stored except in localStorage

Smart Deadline Detection

The app intelligently scans your Google Calendar for:

- Event titles containing deadline keywords

- Event descriptions with deadline-related terms
- All-day events marked as deadlines
- Recurring deadlines (shows next occurrence)



Troubleshooting

Common Issues:

1. **"Invalid Origin" Error**
 - Make sure your domain is in authorized JavaScript origins
 - For local testing, use `http://localhost:8080` and run a local server
2. **"Access Blocked" Error**
 - Ensure you've added yourself as a test user
 - Check that OAuth consent screen is configured
3. **No Events Showing**
 - Verify Google Calendar API is enabled
 - Check that you have upcoming events in your primary calendar
 - Ensure proper scopes are authorized

Running a Local Server:

For security reasons, OAuth requires a proper origin. Use Python's simple server:



bash

Python 3

```
python -m http.server 8080
```

Then open: <http://localhost:8080/index.html>

Or with Node.js:



bash

```
npx http-server -p 8080
```



For the Hackathon Demo

1. **Pre-setup:** Have the Google Cloud project ready before the demo
2. **Test Account:** Use a Google account with sample calendar events
3. **Demo Events:** Create calendar events with obvious deadlines:
 - "Project Alpha - Final Deadline"
 - "Submit Hackathon Project - Due"
 - "Q4 Report Delivery"

4. Show the Flow:

- Click "Connect Google Calendar"
- Authorize (one-time)
- Show events appearing
- Click "Import as Task" on a deadline
- Show how it pre-fills the form
- Add the task and show it scheduled with AI

This integration makes FocusFlow stand out by:

- Reducing manual entry
- Catching deadlines you might forget
- Seamlessly integrating with existing workflows
- Using real OAuth (not mock data)

Note: Keep your API keys secure. For production, implement additional security measures like domain restrictions and API key rotation.