

🚀 Executive Dashboard - Complete Antigravity Setup Guide

Copy this entire prompt into Antigravity to set up your Executive Dashboard with full guidance on obtaining all required credentials.

📋 Overview

This is a production-ready Executive Dashboard with:

- **Dashboard** - Real-time metrics and overview
- **Projects Management** - Syncs with ClickUp
- **Calendar Integration** - Syncs with Google Calendar
- **Invoice Tracking** - Automated email reminders
- **AI Assistant** - Query your data using Ollama (local/free) or OpenAI (cloud/paid)

Tech Stack: Next.js 14, TypeScript, Tailwind CSS, Supabase, ClickUp API, Google Calendar API, Gmail API

⚡ Quick Setup Steps

1. **Install Dependencies**
2. **Get API Keys & Credentials** (detailed guide below)
3. **Configure Environment Variables**
4. **Setup Supabase Database**
5. **Start AI Service** (Ollama or OpenAI)
6. **Run Development Server**
7. **Sync Your Data**

📦 Step 1: Install Dependencies

```
```bash
npm install
```
```

This installs all required packages (~3-5 minutes).

🗝️ Step 2: Get All API Keys & Credentials

2.1 Supabase (Database) - **REQUIRED**

What it's for: Stores all your data (projects, invoices, calendar events, clients)

How to get it:

1. Go to <https://supabase.com>
2. Sign up/Login (free tier works perfectly)
3. Click "New Project"
 - Name: `executive-dashboard`
 - Database Password: Choose a strong password (save it!)
 - Region: Choose closest to you
 - Click "Create new project" (takes ~2 minutes)
4. Once created, go to **Settings** → **API**
5. Copy these 3 values:
 - **Project URL** (looks like: `https://xxxxx.supabase.co`)
 - **anon public** key (under "Project API keys")
 - **service_role** key (under "Project API keys")

Save these for Step 3!

2.2 ClickUp (Project Management) - **REQUIRED**

****What it's for:**** Syncs your ClickUp tasks into the dashboard as projects

****How to get it:****

1. Go to <https://app.clickup.com/settings/apps>
2. Login to your ClickUp account
3. Scroll to ****API Token**** section
4. Click "Generate" or "Create an App"
5. Click "Generate" to create a Personal API Token
6. Copy the token (starts with `pk_`)
7. ****Get your Space ID:****
 - Go to your ClickUp workspace
 - Click on a Space
 - Look at the URL: `app.clickup.com/{TEAM_ID}/v/li/{SPACE_ID}`
 - Copy the `{SPACE_ID}` number (usually 10 digits)

****Example URL:**** `app.clickup.com/12345/v/li/9016996890`
- Space ID = `9016996890`

****Save these for Step 3!****

2.3 Google Service Account (Calendar & Gmail) - **REQUIRED**

****What it's for:**** Syncs Google Calendar events and sends automated emails

****How to get it:****

1. Go to <https://console.cloud.google.com>
2. Sign in with your Google account

3. Click "Select a project" → "New Project"
 - Name: `executive-dashboard`
 - Click "Create"
4. Wait for project creation (~30 seconds)
5. ****Enable APIs:****
 - In the search bar, type "Google Calendar API"
 - Click on it → Click "Enable"
 - Go back, search "Gmail API"
 - Click on it → Click "Enable"
6. ****Create Service Account:****
 - In left menu: "IAM & Admin" → "Service Accounts"
 - Click "Create Service Account"
 - Name: `dashboard-bot`
 - Description: `Service account for executive dashboard`
 - Click "Create and Continue"
 - Skip role assignment (click "Continue")
 - Click "Done"
7. ****Create Key:****
 - Click on the service account you just created
 - Go to "Keys" tab
 - Click "Add Key" → "Create new key"
 - Select "JSON"
 - Click "Create"
 - A JSON file downloads automatically
8. ****Extract values from JSON:****
 - Open the downloaded JSON file
 - Copy these two values:
 - `client_email` (looks like: `dashboard-bot@xxxxx.iam.gserviceaccount.com`)
 - `private_key` (long text starting with `-----BEGIN PRIVATE KEY-----`)

****Important:**** The `private_key` contains `\n` characters. Keep them as-is.

****Calendar ID:****

- Use `primary` or your Gmail address (e.g., `youremail@gmail.com`)

****Save these for Step 3!****

2.4 Google OAuth (Optional - For User Login)

****What it's for:**** Allows users to login with Google (optional feature)

****How to get it:****

1. Same Google Cloud Console (console.cloud.google.com)
2. Go to "APIs & Services" → "Credentials"
3. Click "Create Credentials" → "OAuth client ID"
4. If prompted, configure OAuth consent screen:
 - User Type: "External"
 - App name: `Executive Dashboard`
 - User support email: Your email
 - Developer contact: Your email
 - Click "Save and Continue" through all screens
5. Back to "Create OAuth client ID":
 - Application type: "Web application"
 - Name: `Executive Dashboard Web`
 - Authorized redirect URIs: `http://localhost:3000/api/auth/google/callback`
 - Click "Create"
6. Copy:
 - ****Client ID**** (ends with `.apps.googleusercontent.com`)
 - ****Client Secret**** (starts with `GOCSPX-`)

****Save these for Step 3!****

2.5 AI Assistant - Choose ONE Option

****Option A: Ollama (Local/Free) - Recommended for Development****

****What it's for:**** AI assistant that runs on your computer (free, private)

****How to setup:****

- Just use Docker (included in project)
- Will be set up automatically in Step 6

****Option B: OpenAI (Cloud/Paid) - Recommended for Production****

****What it's for:**** AI assistant using ChatGPT (fast, reliable, paid)

****How to get it:****

1. Go to <https://platform.openai.com/signup>
2. Sign up/Login
3. Add payment method (pay-as-you-go, ~\$0.01 per query)
4. Go to <https://platform.openai.com/api-keys>
5. Click "Create new secret key"
6. Name: `executive-dashboard`
7. Copy the key (starts with `sk-`)

****Save for Step 3!****

🛠️ Step 3: Configure Environment Variables

Create a file named `.env.local` in the project root:

```
```bash
Copy .env.example to .env.local
cp .env.example .env.local
```
```

Now edit `.env.local` and paste your credentials:

```
```env
```

```
=====
EXECUTIVE DASHBOARD - ENVIRONMENT VARIABLES
=====
```

```
SUPABASE (Required)
NEXT_PUBLIC_SUPABASE_URL=https://your-project-id.supabase.co
NEXT_PUBLIC_SUPABASE_ANON_KEY=your-anon-key-here
SUPABASE_SERVICE_ROLE_KEY=your-service-role-key-here
```

```
CLICKUP (Required)
CLICKUP_API_TOKEN=pk_your_clickup_api_token_here
CLICKUP_SPACE_ID=your_space_id_here
```

```
GOOGLE SERVICE ACCOUNT (Required)
GOOGLE_CLIENT_EMAIL=dashboard-bot@your-project.iam.gserviceaccount.com
GOOGLE_PRIVATE_KEY="-----BEGIN PRIVATE
KEY-----\nYOUR_PRIVATE_KEY_HERE\n-----END PRIVATE KEY-----\n"
GOOGLE_CALENDAR_ID=primary
```

```
GMAIL SENDER (Required)
GMAIL_SENDER_EMAIL=your-email@gmail.com
```

```
AI ASSISTANT - Choose Ollama OR OpenAI
```

```
Option A: Ollama (Local/Free)
OLLAMA_BASE_URL=http://localhost:11434
OLLAMA_MODEL=llama3.1:8b
```

```
Option B: OpenAI (Cloud/Paid)
OPENAI_API_KEY=sk-your-openai-api-key-here
OPENAI_MODEL=gpt-4o
```

```
GOOGLE OAUTH (Optional)
GOOGLE_OAUTH_CLIENT_ID=your-client-id.apps.googleusercontent.com
GOOGLE_OAUTH_CLIENT_SECRET=GOCS PX-your-client-secret
```

```
APP CONFIG
NEXT_PUBLIC_APP_URL=http://localhost:3000
...
```

**\*\* ⚠ Important Notes:\*\***

- Replace ALL placeholder values with your actual credentials
- Keep the quotes around `GOOGLE\_PRIVATE\_KEY`
- If using Ollama, you can skip the OpenAI key
- If using OpenAI, you can skip the Ollama setup

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## ## 🗄 Step 4: Setup Supabase Database

1. Go to your Supabase Dashboard: <https://supabase.com/dashboard>
2. Select your project
3. Click **SQL Editor** in the left sidebar
4. Click "New query"
5. Open the file `supabase-schema.sql` in this project
6. Copy ALL the contents (Ctrl+A, Ctrl+C)
7. Paste into the Supabase SQL Editor
8. Click **RUN** (or press Ctrl+Enter)
9. Wait for success message (~5 seconds)

**\*\*What this does:\*\***

- Creates 6 tables: clients, projects, invoices, calendar\_events, roi\_metrics, automation\_logs
- Sets up indexes for performance
- Creates database views for dashboard stats
- Inserts sample data so you can see the dashboard working immediately

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## ## 🚀 Step 5: Start AI Service

### If using Ollama (Local/Free):



```
```bash
# Start Ollama container
docker-compose up -d
```

```
# Wait 30 seconds for container to start
sleep 30
```

```
# Pull the AI model (this takes 30-60 minutes, ~4.7GB download)
docker exec executive-ollama ollama pull llama3.1:8b
```
```

**\*\*Note:\*\*** The model download runs in background. The dashboard will work with sample responses until it completes.

### If using OpenAI (Cloud/Paid):

Nothing to do! Just make sure you added your `OPENAI\_API\_KEY` in `.env.local`.

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## 🚀 Step 6: Run Development Server

```
```bash
npm run dev
```
```

**\*\*Expected output:\*\***  
...

▲ Next.js 14.2.5  
- Local: http://localhost:3000  
- Environments: .env.local

✓ Ready in 2s  
...

**\*\*Open your browser:\*\*** <http://localhost:3000>

You should see the Executive Dashboard! 🎉

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## ## 🔄 Step 7: Sync Your Real Data

The dashboard starts with sample data. Now let's sync your real data:

### ### Sync ClickUp Tasks:

1. Click the **\*\*\*Sync All\*\*\*** button in the top navigation bar
2. Or use the API:

```
```bash
curl -X POST http://localhost:3000/api/clickup/sync
```
```

This imports all your ClickUp tasks as projects.

### ### Sync Google Calendar Events:

1. Click the **\*\*\*Sync All\*\*\*** button (syncs both)
2. Or use the API:

```
```bash
curl -X POST http://localhost:3000/api/calendar/sync
```
```

This imports your calendar events.

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## ## Features Guide

### #### Dashboard Page (`/dashboard`)

- Pipeline value from leads
- Active projects count
- Overdue invoices total
- Upcoming meetings
- AI Assistant chat
- ROI metrics

### #### Projects Page (`/projects`)

- View all projects
- Filter by status (active, planning, on\_hold, completed)
- See project health scores
- Budget tracking
- ClickUp sync status

### #### Calendar Page (`/calendar`)

- Monthly calendar view
- Google Calendar sync
- Event details
- Upcoming events list

### #### Invoices Page (`/invoices`)

- All invoices list
- Filter by status (draft, sent, paid, overdue)
- Send reminder emails
- Track payments

### #### Settings Page (`/settings`)

- Configure integrations
- Manage API connections
- View sync history

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## ## 🤖 Using the AI Assistant

The AI Assistant can answer questions about your data:

**\*\*Example questions:\*\***

- "Show me all overdue invoices"
- "What projects are due this week?"
- "How many meetings do I have today?"
- "What's my total pipeline value?"
- "List active projects with low health scores"
- "Send reminder for invoice INV-001"

The AI queries your Supabase database and provides accurate answers based on your real data.

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## ## 🛠 Troubleshooting

**#### Issue: "Cannot find module" errors**

**\*\*Solution:\*\***

```
```bash
rm -rf node_modules package-lock.json
npm install
```
```

**#### Issue: CSS errors about "border-border class"**

**\*\*Solution:\*\*** Make sure `tailwind.config.ts` includes:

```
```typescript
colors: {
  border: 'hsl(var(--border))',
  input: 'hsl(var(--input))',
  // ... other color variables
}
```

...

Issue: Port 3000 already in use

Solution:

```bash

# Windows

netstat -ano | findstr :3000

taskkill /F /PID <PID\_NUMBER>

# Mac/Linux

lsof -ti:3000 | xargs kill -9

...

#### Issue: Supabase connection errors

\*\*Solution:\*\*

- Verify `.env.local` has correct Supabase URL and keys
- Check Supabase project is active
- Verify schema was run successfully

#### Issue: ClickUp sync not working

\*\*Solution:\*\*

- Verify ClickUp API token is valid
- Check Space ID is correct (from ClickUp URL)
- Make sure you have tasks in that Space

#### Issue: Google Calendar not syncing

\*\*Solution:\*\*

- Verify Service Account credentials
- Make sure Calendar API is enabled in Google Cloud Console
- Check `GOOGLE\_CALENDAR\_ID` is correct

#### Issue: AI Assistant not responding

\*\*For Ollama:\*\*

- Check Docker is running: `docker ps`
- Verify container is up: `docker logs executive-ollama`
- Wait for model download to complete

**\*\*For OpenAI:\*\***

- Verify API key is valid
- Check you have credits in your OpenAI account
- Test at <https://platform.openai.com/playground>

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## **##** 📊 Testing the Setup

### **###** 1. Check Dashboard Loads

- Go to <http://localhost:3000>
- Should see sample data

### **###** 2. Test ClickUp Sync

```bash`

`curl -X POST http://localhost:3000/api/clickup/sync`

````

Should return: ``{"success": true, "synced": X, "message": "..."}``

### **###** 3. Test Calendar Sync

```bash`

`curl -X POST http://localhost:3000/api/calendar/sync`

````

Should return: ``{"success": true, "synced": X}``

### **###** 4. Test AI Assistant

- Type "hi" in the AI chat
- Should get a response

### **###** 5. Check All Pages

- Dashboard: <http://localhost:3000/dashboard>
- Projects: <http://localhost:3000/projects>
- Calendar: <http://localhost:3000/calendar>
- Invoices: <http://localhost:3000/invoices>

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## ## 🚢 Production Deployment

When ready to deploy:

### ### Build for Production:

```
```bash
npm run build
npm start
```
```

### ### Deploy to Vercel (Recommended):

1. Push code to GitHub
2. Go to <https://vercel.com>
3. Import your repository
4. Add all environment variables from `.env.local`
5. Deploy!

### ### Deploy to Other Platforms:

- Set all environment variables in your hosting dashboard
- Make sure Node.js 18+ is available
- Run `npm run build` then `npm start`

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## ## 📖 Additional Resources

### ### API Endpoints

| Endpoint               | Method | Description         |
|------------------------|--------|---------------------|
| `/api/projects`        | GET    | Get all projects    |
| `/api/projects`        | POST   | Create new project  |
| `/api/clickup/sync`    | POST   | Sync ClickUp tasks  |
| `/api/calendar/events` | GET    | Get calendar events |

| `/api/calendar/sync` | POST | Sync Google Calendar |  
| `/api/invoices` | GET | Get all invoices |  
| `/api/gmail/send` | POST | Send email |  
| `/api/ai/chat` | POST | Chat with AI assistant |  
| `/api/health` | GET | Check system health |

### ### Database Tables

- `clients` - Client information
- `projects` - Projects (synced from ClickUp)
- `invoices` - Invoice tracking
- `calendar\_events` - Calendar events (synced from Google)
- `roi\_metrics` - ROI tracking metrics
- `automation\_logs` - Automation activity logs

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### ## ✅ Setup Complete Checklist

Before considering setup complete:

- [ ] Dependencies installed (`npm install`)
- [ ] `.env.local` created with all credentials
- [ ] Supabase schema executed successfully
- [ ] Development server running (`npm run dev`)
- [ ] Dashboard loads at <http://localhost:3000>
- [ ] ClickUp sync tested and working
- [ ] Google Calendar sync tested and working
- [ ] AI Assistant responds to messages
- [ ] All pages accessible (Dashboard, Projects, Calendar, Invoices)

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## 🎉 Success!



Your Executive Dashboard is now fully set up and running!

**\*\*What's Next?\*\***

1. Customize the dashboard to your needs
2. Add more projects and clients
3. Set up automated sync (cron jobs)
4. Invite team members
5. Deploy to production

**\*\*Need Help?\*\***

- Check browser console (F12) for errors
- Check server logs in terminal
- Verify all API keys are correct
- Make sure Supabase schema ran successfully

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**\*\*Enjoy your new Executive Dashboard! 🚀\*\***