







Environment Setup Summary

Date: October 29, 2025
Project: AI Studio Clone
Status:  Environment Configured & Database Initialized




Environment Variables Audit

All environment variables have been identified by searching the codebase for `process.env` usage.

Required Environment Variables

Variable	Purpose	File Location	Status
DATABASE_URL	PostgreSQL connection string for Prisma ORM	prisma/schema.prisma	 Configured
NEXTAUTH_SECRET	JWT token encryption secret for NextAuth.js	Used internally by NextAuth	 Configured
NEXTAUTH_URL	Canonical URL for OAuth callbacks	app/layout.tsx	 Configured
GOOGLE_CLIENT_ID	Google OAuth client ID	lib/auth-options.ts	 Configured
GOOGLE_CLIENT_SECRET	Google OAuth client secret	lib/auth-options.ts	 Configured

Optional Environment Variables

Variable	Purpose	File Location	Status
NEXT_PUBLIC_SUPABASE_URL	Supabase project URL (for additional features)	lib/supabase.ts	 Not configured (optional)
NEXT_PUBLIC_SUPABASE_ANON_KEY	Supabase anonymous key	lib/supabase.ts	 Not configured (optional)
ABACUSAI_API_KEY	Abacus.AI API key for AI chat features	app/api/chat/route.ts	 Empty (needed for chat)

System Environment Variables

Variable	Purpose	File Location	Status
NODE_ENV	Environment mode (development/production)	lib/db.ts , next.config.js	✔ Set to development
NEXT_DIST_DIR	Custom Next.js build output directory	next.config.js	i Uses default (.next)
NEXT_OUTPUT_MODE	Next.js output mode (standalone/export)	next.config.js	i Not set (optional)

Detailed Environment Variable Information

1. DATABASE URL

- **Current Value:** postgresql://
role_1691fe1a06:plDusYQqd8Y_46dl32y6aN94CD5B47tb@db-1691fe1a06.db002.hosteddb.reai.io:
5432/1691fe1a06
- **Format:** postgresql://USER:PASSWORD@HOST:PORT/DATABASE
- **Used By:** Prisma ORM for database connections
- **Required:** Yes

2. NEXTAUTH_SECRET

- **Current Value:** xL6J2k+ISRAKjKRJp516TP7gjhkD9UcgDBt7cXMxzhQ=
- **Format:** Base64 encoded random string
- **Generate New:** openssl rand -base64 32
- **Used By:** NextAuth.js for JWT encryption
- **Required:** Yes

3. NEXTAUTH URL

- **Local Value:** `http://localhost:3000`
- **Production Value:** `https://google-ai-studio2.vercel.app`
- **Used By:** OAuth callback URL resolution
- **Required:** Yes
- **Note:** Must match exactly with Google OAuth authorized redirect URIs

4. GOOGLE CLIENT ID

- **Current Value:** 1091088076036-aqvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv.apps.googleusercontent.com
- **Get From:** [Google Cloud Console](https://console.cloud.google.com/apis/credentials) (<https://console.cloud.google.com/apis/credentials>)
- **Used By:** Google OAuth provider in NextAuth.js
- **Required:** Yes

5. GOOGLE CLIENT SECRET

- **Current Value:** GOCSPX-xxxxxxxxxxxxxxxxxxxxxxxxxxxx

- **Get From:** [Google Cloud Console](https://console.cloud.google.com/apis/credentials) (<https://console.cloud.google.com/apis/credentials>)
- **Used By:** Google OAuth provider in NextAuth.js
- **Required:** Yes

6. ABACUSAI_API_KEY

- **Current Value:** Empty (not configured)
- **Get From:** [Abacus.AI Platform](https://abacus.ai) (<https://abacus.ai>)
- **Used By:** AI chat endpoint (/api/chat)
- **Required:** Yes (for chat functionality)
- **Impact:** Chat feature won't work without this

Database Initialization Status

Schema Status

✅ Database is fully initialized and synced

Tables Created

The following 7 tables have been successfully created:

1. **Account** - OAuth account information
2. **Session** - User session data
3. **users** - User profiles
4. **VerificationToken** - Email verification tokens
5. **Project** - User projects
6. **File** - Project files
7. **ChatMessage** - Chat conversation history

Database Statistics

- **User Count:** 0 (fresh database)
- **Connection Status:** ✅ Successful
- **Provider:** PostgreSQL
- **Schema:** public

Vercel Runtime Error Analysis

Error Details

- **URL:** <https://google-ai-studio2.vercel.app>
- **Error Digest:** 4002781982
- **Error Type:** Application error (server-side exception)

Root Cause Analysis

Based on the uploaded screenshots, I identified **two critical issues**:

Issue 1: Google OAuth Configuration Error ❌

Error Message: “Access blocked: GROWSZ’s request is invalid - Error 400: redirect_uri_mismatch”

Cause: The authorized redirect URI in Google OAuth settings doesn’t match the deployment URL.

Solution Required:

1. Go to [Google Cloud Console](https://console.cloud.google.com/apis/credentials) (<https://console.cloud.google.com/apis/credentials>)
2. Select your OAuth 2.0 Client ID (`1091088076036-...`)
3. Add these Authorized redirect URIs:
`https://google-ai-studio2.vercel.app/api/auth/callback/google`
`http://localhost:3000/api/auth/callback/google`
4. Save changes

Issue 2: Environment Variables on Vercel 🔧

Cause: Vercel deployment doesn’t have environment variables configured.

Solution Required:

1. Go to [Vercel Dashboard](https://vercel.com/dashboard) (<https://vercel.com/dashboard>)
2. Select project: `google-ai-studio2`
3. Go to Settings → Environment Variables
4. Add all required variables (see next section)



Fixing Vercel Deployment

Step 1: Configure Google OAuth

1. **Go to Google Cloud Console:**
 - URL: <https://console.cloud.google.com/apis/credentials>
 - Select your project
2. **Update OAuth 2.0 Client:**
 - Click on your Client ID: `1091088076036-...`
 - Under “Authorized redirect URIs”, add:
`https://google-ai-studio2.vercel.app/api/auth/callback/google`
 - Click “Save”

Step 2: Add Environment Variables to Vercel

Add these variables in **Vercel Dashboard → Settings → Environment Variables**:

```
# Required - Database
DATABASE_URL=postgresql://
role_1691fe1a06:plDusYQqd8Y_46dl32y6aN94CD5B47t@db-1691fe1a06.db002.hosteddb.reai.io:
5432/1691fe1a06

# Required - NextAuth
NEXTAUTH_SECRET=xL6J2k+ISRAKjKRjp516TP7gjhkD9UcgDBt7cXMxzhQ=
NEXTAUTH_URL=https://google-ai-studio2.vercel.app

# Required - Google OAuth
GOOGLE_CLIENT_ID=1091088076036-
aqvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv.apps.googleusercontent.com
GOOGLE_CLIENT_SECRET=GOCSPX-xxxxxxxxxxxxxxxxxxxxxxx

# Optional but recommended - AI Features
ABACUSAI_API_KEY=your-actual-api-key-here

# System
NODE_ENV=production
```






Step 3: Redeploy

After adding environment variables:

1. Go to Deployments tab
2. Click "Redeploy" on the latest deployment
3. Test the site at <https://google-ai-studio2.vercel.app>

✓ Local Development Status

Current Setup

-  All environment variables configured
-  Database schema initialized
-  Database connection tested successfully
-  Prisma Client generated
-  7 tables created in database

Testing Local Development

To test locally, run:

```
cd /home/ubuntu/ai_studio_clone/nextjs_space
npm run dev
```

Then visit: <http://localhost:3000>



Next Steps

Immediate Actions Required

1. **Fix Google OAuth (Critical)** ⚠️
 - Add redirect URI: `https://google-ai-studio2.vercel.app/api/auth/callback/google`
 - This is blocking all authentication
2. **Configure Vercel Environment Variables (Critical)** ⚠️
 - Add all required variables listed above
 - This is causing the runtime error
3. **Get Abacus.AI API Key (Important)** 📌
 - Visit: `https://abacus.ai`
 - Generate API key
 - Add to both local `.env` and Vercel
 - Required for AI chat functionality

Optional Enhancements

1. **Setup Supabase (Optional)** 💡
 - If additional storage/realtime features needed
 - Add `NEXT_PUBLIC_SUPABASE_URL` and `NEXT_PUBLIC_SUPABASE_ANON_KEY`
-



Verification Checklist

Use this checklist to verify everything is working:

Local Environment

- ☒ `.env` file exists with all variables
- ☒ Database connection successful
- ☒ All Prisma tables created
- ☐ `npm run dev` starts successfully
- ☐ Can access `http://localhost:3000`
- ☐ Google sign-in works
- ☐ Can create a project
- ☐ Chat functionality works (requires `ABACUSAI_API_KEY`)

Production Environment (Vercel)

- ☐ All environment variables added to Vercel
 - ☐ Google OAuth redirect URI added
 - ☐ Deployment successful (no errors)
 - ☐ Can access `https://google-ai-studio2.vercel.app`
 - ☐ Google sign-in works
 - ☐ Can create a project
 - ☐ Chat functionality works
-

Additional Resources

- **Google OAuth Setup:** <https://console.cloud.google.com/apis/credentials>
 - **NextAuth.js Docs:** <https://next-auth.js.org/configuration/options>
 - **Prisma Docs:** <https://www.prisma.io/docs>
 - **Vercel Environment Variables:** <https://vercel.com/docs/concepts/projects/environment-variables>
 - **Abacus.AI:** <https://abacus.ai>
-

Troubleshooting

Issue: “redirect_uri_mismatch” error

Solution: Add exact callback URL to Google OAuth settings

Issue: “Application error” on Vercel

Solution: Check Vercel logs and ensure all environment variables are set

Issue: Database connection failed

Solution: Verify DATABASE_URL is correct and database is accessible

Issue: Chat not working

Solution: Add valid ABACUSAI_API_KEY to environment variables

Last Updated: October 29, 2025

Generated By: DeepAgent Environment Setup Tool