

# Development Log - January 5, 2026

---

## Session Summary

Full-day session building the VC Outreach CRM with AI-powered email generation.

---

## What Was Completed

### 1. Core Infrastructure

- **Supabase Integration:** Connected to Supabase for database (contacts, campaigns, emails, contact\_campaigns, unified\_threads)
- **OpenAI GPT-4o Integration:** Set up for AI email generation via `/api/generate-draft` endpoint
- **Next.js 14 App Router:** Full application structure with TypeScript

### 2. Contacts Management

- Import contacts from spreadsheet (CSV/Excel)
- Expandable contact list with search and filtering
- Contact details: name, email, firm, role, geography, investment focus
- Delete contacts functionality

### 3. Campaign System

- **Create Campaign:** Name, prompt for AI, tone selection
- **Campaign Detail Page** (fully redesigned today):
  - Stats dashboard (Total VCs, Drafts Ready, Approved, Sent)
  - Add VCs modal with multi-select
  - Expandable draft view for each contact
  - Approve → Send workflow
  - Delete campaign button
  - Remove VC from campaign (X button)
  - Regenerate draft option
- **localStorage fallback** for campaigns when Supabase isn't synced

### 4. AI Email Generation

- `/api/generate-draft` API route created
  - Uses GPT-4o with ChatMessage[] format
  - Generates personalized emails based on:
    - Campaign prompt/context
    - Contact details (firm, role, investment focus)
    - Company context (Astant Global Management)
  - Returns structured email: subject, greeting, context\_p1, value\_p2, cta, signature
  - Confidence scoring (green/yellow/red)
-

## Technical Issues Resolved

### Issue 1: "Campaign not found" after save

- **Cause:** Campaign saved to localStorage but page looked in Supabase only
- **Fix:** Added localStorage fallback in campaign detail page

### Issue 2: OpenAI API Error - "expected array of objects, got string"

- **Cause:** `generateCompletion()` was being called with a string instead of `ChatMessage[]`
- **Fix:** Updated `/api/generate-draft/route.ts` to use proper message format:

```
const messages: ChatMessage[] = [
  { role: 'system', content: '...' },
  { role: 'user', content: prompt }
]
const response = await generateCompletion(messages, { model: 'quality', jsonMode:
true })
```

### Issue 3: Supabase campaigns table missing columns

- **Cause:** Schema didn't have new fields (prompt, template\_subject, template\_body, status, contacts\_count)
- **Fix:** Created migration SQL (needs to be run in Supabase dashboard)

---

## Files Modified/Created Today

### New Files

- `src/app/api/generate-draft/route.ts` - API endpoint for AI draft generation
- `supabase/migrations/add_campaign_template_columns.sql` - Database migration
- `docs/DEVELOPMENT_LOG_JAN_5_2026.md` - This file

### Modified Files

- `src/app/campaigns/[id]/page.tsx` - Complete redesign with inline draft view
- `src/lib/api.ts` - Updated `generateDraft()` to call local API instead of Edge Function
- `src/lib/types.ts` - Added new Campaign fields

---

## Current State

### Working Features ☒

- Contact import and management
- Campaign creation with AI prompt
- Add VCs to campaign
- Generate personalized email drafts (GPT-4o)

- View drafts inline (expandable)
- Approve emails
- Mark as sent (database update)
- Delete campaigns
- Remove VCs from campaign

### Not Yet Working ⚠

- Actual email sending (Resend API not integrated)
- Supabase migration needs to be run manually
- Email editing before send

---

## Resume Work Tomorrow

### Priority 1: Run Database Migration

Go to Supabase Dashboard → SQL Editor → Run:

```
ALTER TABLE campaigns ADD COLUMN IF NOT EXISTS prompt TEXT;  
ALTER TABLE campaigns ADD COLUMN IF NOT EXISTS template_subject TEXT;  
ALTER TABLE campaigns ADD COLUMN IF NOT EXISTS template_body TEXT;  
ALTER TABLE campaigns ADD COLUMN IF NOT EXISTS status TEXT DEFAULT 'draft';  
ALTER TABLE campaigns ADD COLUMN IF NOT EXISTS contacts_count INTEGER DEFAULT 0;
```

### Priority 2: Integrate Resend API

- Install: `npm install resend`
- Create `/api/send-email` endpoint
- Update "Send Email" button to actually send via Resend

### Priority 3: Testing

- Add test contacts
- Create test campaign
- Generate drafts
- Full send flow test

### Priority 4: Polish

- Email editing before send
- Bulk approve/send
- Email templates library

---

## Environment Setup

```
# Start dev server
cd vc-outreach-crm
npm run dev
# Runs on http://localhost:3000

# Required env vars (.env.local)
NEXT_PUBLIC_SUPABASE_URL=...
NEXT_PUBLIC_SUPABASE_ANON_KEY=...
OPENAI_API_KEY=...
```

## Key Code Locations

Feature	File
Campaign detail + drafts	src/app/campaigns/[id]/page.tsx
AI draft generation API	src/app/api/generate-draft/route.ts
OpenAI client	src/lib/agents/openai-client.ts
API service layer	src/lib/api.ts
Types	src/lib/types.ts
Supabase client	src/lib/supabase/client.ts