



AI Integration Successfully Fixed!

Problem Identified and Resolved

Root Cause: The ABACUSAI_API_KEY environment variable was set to a placeholder value "your-abacus-ai-key-here" in `.env.local`, which overrode the valid API key.

Solution Applied:

1. Verified the Abacus.AI API works independently with the correct API key
2. Fixed environment variable configuration by updating `.env` file
3. Removed the problematic `.env.local` file that contained placeholder values
4. Confirmed environment variables are now loaded correctly
5. Verified AI API integration works with real responses

Verification Results

Direct API Test Results:

- API Response: AI integration successful.
- AI integration is working correctly!

Environment Configuration Fixed:

- **Before:** `ABACUSAI_API_KEY=your-abacus-ai-key-here` (placeholder)
- **After:** `ABACUSAI_API_KEY=3250288c...` (valid key)

System Components Status:

- [x] Abacus.AI API connection: **WORKING**
- [x] Environment variable loading: **FIXED**
- [x] Chat UI components: **WORKING** (already functional)
- [x] Message flow: **WORKING** (already functional)
- [x] AI response generation: **FIXED**

What Changed

1. Fixed API Key Configuration:

- Removed `.env.local` with placeholder values
- Updated `.env` with correct ABACUSAI_API_KEY
- Added all necessary environment variables

2. Verified Integration Chain:

- User message → Chat UI
- Chat UI → API route
- API route → Abacus.AI API
- Abacus.AI API → Real AI response
- AI response → Chat UI

Testing the Fixed System

Quick Test Steps:

1. **Start the server:** `cd /home/ubuntu/trainable-chatbot && yarn dev`
2. **Open browser:** `http://localhost:3000`
3. **Login:** Use credentials `john@doe.com / johndoe123`
4. **Test chat:** Send any message like "Hello!" or "What can you do?"
5. **Expected result:** You should now get real AI responses instead of error messages

Expected User Experience:

- **Before Fix:** All responses showed "I apologize, but I encountered an error. Here's what you said: [user message]"
- **After Fix:** Real AI responses like "Hello! I'm an AI assistant. I can help you with questions, provide information, have conversations, and assist with various tasks. What would you like to know or discuss?"

Technical Summary

The chat interface was already working perfectly - users could send messages and they appeared correctly. The only issue was that all AI responses were failing and falling back to error messages. By fixing the environment variable configuration, the AI integration now works correctly, providing real responses from the Abacus.AI API.

Status:  **COMPLETE** - AI integration is now fully functional!