Minimax AI Integration - Issue Diagnosis Report

Issue Summary

Bookmarks show "No description available" and no tags despite implementing AI auto-generation.

Root Cause Identified

INVALID MINIMAX API KEY - The Minimax API is rejecting the provided API key with error code 2049.

Investigation Steps Performed

1. Browser Investigation

- ✅ Opened live app at `bookmarkai.abacusai.app`
- ✅ Confirmed all bookmarks show "No description available"
- ✅ Confirmed no tags are visible on bookmark cards
- ✅ No console errors in the browser

2. Environment Variable Investigation

- ❌ MINIMAX_API_KEY was initially stored in wrong location (`/nextjs_space/nextjs_space/.env`)
- ✅ Fixed by moving to correct location (`/nextjs_space/.env`)
- ✅ MINIMAX_API_ENDPOINT correctly set to `https://api.minimax.chat/v1/text/chatcompletion_v2`

3. API Testing

Direct test to Minimax API revealed:

Request:

```
{
  "model": "abab6.5s-chat",
  "messages": [
    {
      "sender_type": "USER",
      "sender_name": "User",
      "text": "[test prompt]"
    }
  ],
  "tokens_to_generate": 200,
  "temperature": 0.7,
  "top_p": 0.95
}
```

Response:

```
{
  "base_resp": {
    "status_code": 2049,
    "status_msg": "invalid api key"
  }
}
```

HTTP Status: 200 (but error in response body)
Headers: Valid Minimax headers present

The API Key Issue

The provided API key starts with: `eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9...`

This is a JWT token, which is correct format for Minimax, but the API is rejecting it as invalid.

Possible Reasons

1. **Expired Token** - The JWT token may have expired
2. **Wrong Group/Project** - The token may be for a different Minimax project
3. **Incorrect Permissions** - The token may not have permissions for the text generation API
4. **Revoked Key** - The API key may have been revoked

What Was Working

✅ Code implementation is correct (Minimax client properly structured)
✅ Environment variables are in the right location now
✅ API endpoint is correct
✅ Request format matches Minimax API specification
✅ Build and deployment successful

What's NOT Working

❌ Minimax API authentication
❌ AI descriptions generation
❌ AI tags generation
❌ Bulk metadata update

Solution Required

The user needs to provide a VALID Minimax API key.

Steps to get a new API key:
1. Go to Minimax.ai platform
2. Log in to your account
3. Navigate to API Keys section
4. Generate a new API key with text generation permissions
5. Ensure the key belongs to "Rise as One AAU Basketball" group
6. Copy the FULL JWT token

Files Already Updated (Ready for Valid Key)

1. `/app/api/bookmarks/route.ts` - Uses `sendMinimaxRequest` for new bookmarks
2. `/app/api/bookmarks/generate-metadata/route.ts` - Bulk update for existing bookmarks
3. `/app/api/ai-summary/[bookmarkId]/route.ts` - AI summaries
4. `/lib/minimax-client.ts` - Minimax API client
5. `.env` - Environment variables (needs valid key)

Testing Commands

Test the new API key with:

```
cd /home/ubuntu/bookmarkhub_clone/nextjs_space
node test-minimax.js
```

Expected successful response:

```
{
  "choices": [{
    "messages": [{
      "sender_type": "BOT",
      "text": "DESCRIPTION: [generated description]\nTAGS: tag1, tag2, tag3"
    }]
  }]
}
```

Next Steps

1. User provides valid Minimax API key
2. Update MINIMAX_API_KEY in `.env` file
3. Rebuild and redeploy app
4. Run bulk metadata generation from Settings → Backup & Export
5. Verify descriptions and tags appear on bookmark cards