

# CoachFlow 404 Error - Complete Fix Report

---

**Date:** November 1, 2025

**Project:** CoachFlow (FittiCoach)

**Issue:** 404 "Page not found" error on Netlify

**Status:**  **RESOLVED - Code Ready for Deployment**

---

## Executive Summary

---

Your CoachFlow project was showing a **404 error** on Netlify because:

1. **Missing environment variables** in Netlify configuration
2. Build script requires these variables → Build failed
3. No files deployed → 404 error

**Solution:** Add environment variables in Netlify (SUPABASE\_URL and SUPABASE\_ANON\_KEY), then re-deploy.

---

## Root Cause Analysis

---

### The Issue Chain

```
Netlify Deployment Attempt
  ↓
Build runs: node build.js
  ↓
Script checks for SUPABASE_URL and SUPABASE_ANON_KEY
  ↓
Variables NOT FOUND ❌
  ↓
Script executes: process.exit(1)
  ↓
Build FAILS
  ↓
No dist/ folder created
  ↓
Netlify has nothing to serve
  ↓
404 PAGE NOT FOUND ❌
```

### Technical Details

**build.js (Lines 29-32):**

```
if (!SUPABASE_URL || !SUPABASE_ANON_KEY) {
  console.error("\n❌ FEHLER: Supabase Environment Variables fehlen!");
  console.error("Benötigt: SUPABASE_URL, SUPABASE_ANON_KEY\n");
  process.exit(1); // Build fails here!
}
```

This is a **hard stop** - the build cannot continue without these variables.

## ✅ What Was Fixed

### 1. Missing File: success.html

#### Problem:

- Referenced in `build.js` (line 88) and `netlify.toml` (line 30)
- File didn't exist in your project
- Would cause issues when Stripe redirects to success page

#### Solution:

- ✅ Created complete `success.html` with:
- Stripe checkout session handling
- Supabase integration
- Professional UI with animations
- Auto-redirect functionality
- Environment variable support

**File Location:** `/success.html`

### 2. Build Bug: Cache-Busting Regex

#### Problem:

- Regex pattern in `build.js` didn't match self-closing HTML tags
- Your `index.html` uses `<link ... />` format
- Cache-busting was only applied to `app.js`, not `styles.css`

#### Before (build.js Lines 125-129):

```
// Only matched: <link rel="stylesheet" href="styles.css">
indexHtml.replace(
  /<link rel="stylesheet" href="styles\.css"/>/g,
  ...
);
```

#### After:

```
// Now matches: <link ... > and <link ... />
indexHtml.replace(
  /<link rel="stylesheet" href="styles\.css"\s*\/?>/g,
  '<link rel="stylesheet" href="styles.css?v=${buildVersion}" />'
);
```

**Result:** Cache-busting now works for both `app.js` and `styles.css` ✅

### 3. Documentation Added

Created 5 comprehensive documentation files:


File	Purpose
README.md	Project overview, setup, and architecture
DEPLOYMENT_GUIDE.md	Step-by-step deployment instructions
QUICK_FIX_GUIDE.md	5-minute quick fix for 404 error
DIAGNOSIS_AND_FIX_SUMMARY.md	Technical diagnosis and analysis
CHANGES_SUMMARY.md	Summary of all changes made


### Testing & Verification


#### Test 1: Build With Environment Variables


```
export SUPABASE_URL="https://example.supabase.co"
export SUPABASE_ANON_KEY="eyJhbGciOi..."
export STRIPE_PUBLISHABLE_KEY="pk_test_example"
node build.js
```

Result:

 Build erfolgreich abgeschlossen!

 10 files created in dist/

 All credentials injected

 Cache-busting applied

Files Created:

- \_redirects - Netlify routing
- agb.html - Terms of service
- app.js - Main app with injected credentials
- cookies.html - Cookie policy
- datenschutz.html - Privacy policy
- impressum.html - Imprint
- index.html - Landing page with cache-busting
- styles.css - Styles
- success.html - Payment success page (NEW!)
- viewer.html - Video player

#### Test 2: Build Without Environment Variables

```
node build.js
```

Result:

✗ FEHLER: Supabase Environment Variables fehlen!  
Benötigt: SUPABASE\_URL, SUPABASE\_ANON\_KEY

This is what was happening on Netlify!

## Test 3: Environment Variable Injection ✓

Verified placeholders were replaced:

```
$ grep "const SUPABASE_URL" dist/app.js
const SUPABASE_URL = "https://example.supabase.co";

$ grep "DEIN_SUPABASE_URL" dist/app.js
(no results - successfully replaced)
```

## Test 4: Cache-Busting ✓

Verified version parameters added:

```
$ grep -E 'styles.css|app.js' dist/index.html
<link rel="stylesheet" href="styles.css?v=1761960795389" />
<script src="app.js?v=1761960795389"></script>
```

Both files have version parameters! ✓



## Files Changed Summary

### New Files Created (5)

1. **success.html** (5.3 KB)
  - Stripe payment success page
  - Handles session\_id from Stripe redirect
  - Supabase integration ready
  - Professional UI with animations
2. **README.md** (Project documentation)
  - Tech stack overview
  - Setup instructions
  - Project structure
  - Security guidelines
3. **DEPLOYMENT\_GUIDE.md** (Detailed guide)
  - Step-by-step Netlify setup
  - Environment variable configuration
  - Troubleshooting section
  - Production checklist
4. **DIAGNOSIS\_AND\_FIX\_SUMMARY.md** (Technical report)
  - Root cause analysis
  - Detailed fix explanations

- Testing results
- Before/after comparisons

#### 5. **QUICK\_FIX\_GUIDE.md** (Quick reference)

- 5-minute fix instructions
- Visual checklist
- Common issues

## Modified Files (1)

### 1. **build.js**

- Lines 125-129: Fixed cache-busting regex
- Now supports self-closing HTML tags
- Both app.js and styles.css get version parameters

## Unchanged Files (13)

All other files were already correctly configured:

- .gitignore - Proper exclusions
- agb.html - Legal page
- app.js - Placeholder system working
- cookies.html - Cookie policy
- datenschutz.html - Privacy policy
- impressum.html - Imprint
- index.html - Structure correct
- netlify.toml - Configuration correct
- package.json - Scripts correct
- styles.css - No changes needed
- viewer.html - Video player page



## Deployment Instructions



### CRITICAL: You Must Do This

The code is fixed, but **you must add environment variables in Netlify** for the site to work.

## Step-by-Step Guide


### 1. Go to Netlify Dashboard

<https://app.netlify.com/>

### 2. Select Your CoachFlow Site

Click on your site in the dashboard

### 3. Navigate to Environment Variables

Site settings  Environment variables

Or direct link:

```
https://app.netlify.com/sites/YOUR-SITE-NAME/configuration/env
```

#### 4. Add Required Variables

Click **“Add a variable”** for each:

##### Variable 1: SUPABASE\_URL REQUIRED

Key: SUPABASE\_URL  
Value: `https://your-project.supabase.co`

##### Variable 2: SUPABASE\_ANON\_KEY REQUIRED

Key: SUPABASE\_ANON\_KEY  
Value: `eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...`

##### Variable 3: STRIPE\_PUBLISHABLE\_KEY OPTIONAL

Key: STRIPE\_PUBLISHABLE\_KEY  
Value: `pk_test_51... or pk_live_51...`

##### Variable 4-6: Stripe Price IDs OPTIONAL

Key: STRIPE\_PRICE\_BASIC  
Value: `price_1QMabc...`


Key: STRIPE\_PRICE\_PREMIUM  
Value: `price_1QMdef...`

Key: STRIPE\_PRICE\_ELITE  
Value: `price_1QMghi...`

#### 5. Save Variables


Click **“Save”** after adding each variable

#### 6. Trigger New Deploy

1. **Go to** Deploys **tab**
2. Click **“Trigger deploy”**
3. Select **“Deploy site”**
4. **Wait**  60 seconds

#### 7. Verify Success

##### Check Build Log:

- Status: “Published” 
- Build time: ~45-90 seconds
- No errors in log
- Message: “Build erfolgreich abgeschlossen!”

##### Check Site:

- Visit your site URL

- No 404 error ✓
- Homepage loads
- Login button works

---

## Where to Find Your Credentials

---

### Supabase Credentials

1. Go to: <https://supabase.com/dashboard>
2. Select your project
3. Go to: **Settings** → **API**
4. Find:
  - **Project URL** → Copy as `SUPABASE_URL`
  - **anon public key** → Copy as `SUPABASE_ANON_KEY`

### Stripe Credentials (Optional)

1. Go to: <https://dashboard.stripe.com/>
2. Go to: **Developers** → **API keys**
3. Find:
  - **Publishable key** → Copy as `STRIPE_PUBLISHABLE_KEY`
4. Go to: **Products** → Your products
5. Click on each product → Find **Price ID**
  - Copy Basic price ID → `STRIPE_PRICE_BASIC`
  - Copy Premium price ID → `STRIPE_PRICE_PREMIUM`
  - Copy Elite price ID → `STRIPE_PRICE_ELITE`

---

## Expected Outcome

---

### Before Fix

```
User visits: https://your-site.netlify.app
↓
Netlify: 404 Page Not Found ❌
```

### After Fix (With Env Vars Added)

```
User visits: https://your-site.netlify.app
↓
Homepage loads successfully ✓
↓
Login/Signup works ✓
↓
Membership tiers shown ✓
↓
Stripe checkout works (if configured) ✓
```

---

## Security Checklist

---

### ✓ Current Status (Good!)

- ✓ No hardcoded credentials in source code
- ✓ Environment variables used for all secrets
- ✓ Build-time injection (not exposed in git)
- ✓ .gitignore prevents committing secrets
- ✓ Public keys properly used (Supabase anon, Stripe publishable)

### What's Public (Safe)

These are **meant to be public** and it's OK if they're exposed:

- ✓ Supabase URL
- ✓ Supabase Anon Key (protected by Row Level Security)
- ✓ Stripe Publishable Key

### ⊘ What's Secret (Never Commit)

These should **NEVER** be in your code or git:

- ✗ Supabase Service Role Key
- ✗ Stripe Secret Key
- ✗ Any API keys with "secret" in the name

### Recommended Security Actions

#### 1. Enable Supabase Row Level Security (RLS)

- Go to Supabase → Authentication → Policies
- Create policies for each table
- Ensure users can only access their own data

#### 2. Set Up Stripe Webhooks

- Verify payments server-side
- Don't trust client-side data
- Use webhook signatures

#### 3. Configure CORS

- Restrict API access to your domain
- Block unauthorized origins

#### 4. Regular Audits

- Check Supabase logs
  - Monitor Stripe dashboard
  - Review Netlify access logs
-



## Before vs After Comparison

Metric	Before	After
Build Status	✗ Failed	✓ Success
404 Error	✗ Yes	✓ Fixed
Files in dist/	0 files	10 files
success.html	✗ Missing	✓ Created
Cache-Busting	⚠ Partial	✓ Complete
Documentation	✗ None	✓ 5 guides
Git Repository	✗ Not set up	✓ Initialized
Environment Vars	✗ Not configured	⚠ User must add

## Documentation Guide

File	When to Read	Purpose
<b>QUICK_FIX_GUIDE.md</b>	⚡ START HERE	5-minute fix for 404 error
<b>DEPLOYMENT_GUIDE.md</b>	For deployment	Detailed Netlify setup
<b>README.md</b>	For overview	Project documentation
<b>DIAGNOS- IS_AND_FIX_SUMMARY.md</b>	For technical details	Root cause analysis
<b>CHANGES_SUMMARY.md</b>	To see what changed	List of all modifications
<b>FIX_SUMMARY.txt</b>	Quick reference	Visual ASCII summary

## ✓ Verification Checklist

### Before Deployment

- [x] ✓ Fixed missing success.html
- [x] ✓ Fixed cache-busting bug
- [x] ✓ Created documentation
- [x] ✓ Tested build locally

- [x] ☒ Verified environment injection
- [x] ☒ Initialized git repository
- [x] ☒ Committed all changes

## Your Actions Required

- [ ] Push code to GitHub (if using git deployment)
- [ ] Add SUPABASE\_URL in Netlify
- [ ] Add SUPABASE\_ANON\_KEY in Netlify
- [ ] Add STRIPE\_PUBLISHABLE\_KEY (optional)
- [ ] Add Stripe Price IDs (optional)
- [ ] Trigger new deployment
- [ ] Verify build succeeds
- [ ] Test site loads without 404

## After Deployment

- [ ] Enable Supabase RLS
- [ ] Set up Stripe webhooks
- [ ] Test all features
- [ ] Test on mobile devices
- [ ] Configure custom domain (optional)
- [ ] Set up email templates
- [ ] Add real content/images



## Troubleshooting

### Issue: Still Getting 404 After Adding Env Vars

#### Solutions:

1. Verify variables are saved (check Site settings)
2. Check variable names are **exact**: SUPABASE\_URL (case-sensitive!)
3. Trigger a **new deploy** (env var changes don't auto-deploy)
4. Check build logs for errors
5. Clear browser cache (Ctrl+Shift+R / Cmd+Shift+R)
6. Wait a few minutes for CDN to update

### Issue: Build Fails With “Module Not Found”

#### Solutions:

1. Verify Node.js version  $\geq 14$  (specified in package.json)
2. Check that package.json exists in repo
3. Build script uses only Node.js built-ins (no dependencies)

### Issue: Stripe Checkout Doesn't Work

#### Solutions:

1. Verify STRIPE\_PUBLISHABLE\_KEY is set
2. Verify STRIPE\_PRICE\_\* variables are set
3. Check Stripe dashboard for test mode

4. Use correct key for environment (test vs live)
5. Check browser console for errors

## Issue: Supabase Connection Fails

### Solutions:

1. Verify credentials are correct
  2. Check Supabase project is active (not paused)
  3. Check browser console for CORS errors
  4. Verify Supabase RLS policies allow access
  5. Test credentials in Supabase dashboard
- 

## Support Resources

---

### If Build Fails

#### 1. Check Build Logs

- Netlify → Deploys → Latest deploy → View details
- Look for red error messages
- Check exit code (should be 0 for success)

#### 2. Common Error Messages

"Environment Variables fehlen" → Add SUPABASE\_URL and SUPABASE\_ANON\_KEY

"Module not found" → Check Node.js version

"Permission denied" → Check repository access

### If Site Works But Features Don't

#### 1. Check Browser Console (F12 → Console tab)

- Look for JavaScript errors
- Check for failed API calls
- Verify credentials are loaded

#### 2. Check Network Tab (F12 → Network tab)

- Look for failed requests
- Check Supabase API calls
- Verify Stripe API calls




#### 3. Check Supabase Logs

- Supabase Dashboard → Logs
  - Look for authentication errors
  - Check RLS policy blocks
- 

## Next Steps

---

### Immediate (To Fix 404)

1.  Code is already fixed
2.  Add environment variables in Netlify (YOU MUST DO THIS!)
3.  Trigger new deployment

4. ⚠️ Verify site works

## Short Term (Production Readiness)

1. Enable Supabase RLS
2. Set up Stripe webhooks
3. Test all features thoroughly
4. Update legal pages (impressum, datenschutz, agb)
5. Replace placeholder content
6. Test on multiple devices/browsers

## Long Term (Launch)

1. Configure custom domain
2. Set up Cloudflare Stream for videos
3. Configure Resend.com for emails
4. Set up analytics
5. Create content (videos, workouts)
6. Launch marketing campaign

## Conclusion

### Problem Summary

Your CoachFlow project showed a **404 error** because:

- ❌ Missing environment variables in Netlify
- ❌ Build failed without these variables
- ❌ No files deployed to serve

### Solution Summary

#### Code Fixes Applied:

- ✅ Created missing `success.html`
- ✅ Fixed cache-busting bug
- ✅ Added comprehensive documentation

#### Required Action:

- ⚠️ **YOU MUST:** Add environment variables in Netlify
- ⚠️ **YOU MUST:** Trigger new deployment

### Current Status

✅ **Code is ready for deployment!**






⚠️ **Waiting for:** Environment variables to be added in Netlify

🎯 **Next step:** Follow `QUICK_FIX_GUIDE.md` to deploy




## Quick Action Summary

#### What was done:

- ✅ Diagnosed root cause


-  Fixed missing files
-  Fixed build bugs
-  Created documentation
-  Tested locally
-  Committed to git

**What you need to do:**

1. Add SUPABASE\_URL in Netlify  **REQUIRED**
  2. Add SUPABASE\_ANON\_KEY in Netlify  **REQUIRED**
  3. Trigger deploy
  4. Done! 
- 

**Report Generated:** November 1, 2025

**Project:** CoachFlow (FittiCoach)

**Status:**  Ready for deployment

**Action Required:** Add environment variables in Netlify

**Start here:** [QUICK\\_FIX\\_GUIDE.md](#) (./QUICK\_FIX\_GUIDE.md) → 5-minute fix!