

Quick Summary: Webhook Payment Record Creation Fix

✅ FIXED - Ready to Test

What Was Wrong

The webhook was receiving Stripe events but silently failing to create Payment records.

4 Critical Issues:

1. **Weak Validation:** Metadata values defaulted to `0` if missing → invalid database records
2. **Silent Failures:** Errors were caught and logged but execution continued → webhook returned 200 OK even on failure
3. **No Retry Mechanism:** Stripe thought webhook succeeded when it actually failed
4. **Poor Debugging:** Insufficient logs made it hard to identify the problem

What Was Fixed

✅ Strict Metadata Validation

- Now validates `platformFee` and `creatorAmount` exist before parsing
- Uses `parseFloat()` for proper string-to-number conversion
- **Returns early if validation fails** (doesn't try to create invalid records)

✅ Proper Error Handling

- **Throws errors on database failures** instead of catching and continuing
- Webhook returns error status → **Stripe automatically retries**
- Detailed Prisma error code handling (P2002, P2003, P2000, etc.)

✅ Comprehensive Logging

- Logs metadata extraction with type information
- Logs validation checkpoints
- Logs database operation details
- Clear success/failure indicators: `✓✓✓` or `✗✗✗`

✅ Business Logic Validation

- Verifies `platformFee + creatorAmount = totalAmount`
- Detects calculation errors early
- 2 cent tolerance for floating point precision

✅ Variable Scoping

- Fixed scope issues so variables work in email templates

Testing Steps

1. Watch Logs (Most Important!)

When a payment succeeds, you should see this in your logs:

```
=====
WEBHOOK: payment_intent.succeeded received
PAYMENT CREATION - Extracting metadata...
✓ Metadata values parsed successfully
Creating payment record in database...
✓✓✓ PAYMENT RECORD CREATED SUCCESSFULLY! ✓✓✓
Payment ID: xxx
=====
```

2. Test Complete Payment Flow

1. Create a new booking
2. Complete payment via Stripe
3. Check your server logs for the **✓✓✓ PAYMENT RECORD CREATED SUCCESSFULLY! ✓✓✓** message
4. Verify in database:
 - Payment record exists with correct amounts
 - Booking status is **CONFIRMED**
 - Creator can see pending balance

3. Check Database

```
-- Check payment was created
SELECT * FROM Payment WHERE bookingId = 'xxx';

-- Should show:
-- - amount: 70.00
-- - platformFee: 7.00
-- - creatorAmount: 63.00
-- - status: SUCCEEDED
-- - payoutStatus: HELD
-- - payoutReleaseDate: +7 days from now
```

4. Check Creator Dashboard

- Creator should see pending balance
- Should see payout release date (7 days from payment)

What to Monitor

✓ Success Pattern in Logs:

```
✓✓✓ PAYMENT RECORD CREATED SUCCESSFULLY! ✓✓✓
```

⚠ Metadata Error Pattern (shouldn't happen with working flow):

```
✗ METADATA PARSING ERROR: platformFee is missing from metadata
```

✗ Database Error Pattern (triggers Stripe retry):

```
✗✗✗ ERROR CREATING PAYMENT RECORD ✗✗✗
Error code: P2003
```

Files Changed

- `app/api/payments/webhook/route.ts` - Complete fix with validation and error handling
- `WEBHOOK_FIX_SUMMARY.md` - Complete technical documentation

Git Commit

✓ **Committed and pushed to branch:** `fix/stripe-connect-payment-issues`

Commit message: “fix(webhook): Fix payment record creation with strict metadata validation”

Next Steps for You

1. **Deploy to staging** and test with Stripe test mode
2. **Complete a test booking** and watch the logs
3. **Verify Payment record** is created in database
4. **Check creator dashboard** shows pending balance
5. Once validated, **deploy to production**
6. **Monitor logs** for the success/error patterns above

Why This Will Work Now

Before	After
✗ Weak validation (0 defaults)	✓ Strict validation (early exit)
✗ Silent failures	✓ Throws errors
✗ No retry mechanism	✓ Stripe auto-retry
✗ Hard to debug	✓ Clear logging
✗ Data integrity at risk	✓ Protected

Questions?

See `WEBHOOK_FIX_SUMMARY.md` for:

- Detailed technical explanation
- Code examples
- All error codes
- Monitoring patterns
- Related files

The fix is complete and ready to test! 🚀