

Migration Fix Guide

Issue: Failed migration `20251218162945_update_homes_to_active` blocking deployments

Error: `invalid input value for enum "HomeStatus": ""`

Date: December 19, 2025



Problem Analysis

Root Cause

The migration attempts to update `AssistedLivingHome.status` to 'ACTIVE', but:

1. Some records have **empty string** `""` (not NULL) as status
2. PostgreSQL enum types do NOT accept empty strings
3. Migration SQL only handles `DRAFT` and `NULL`, missing empty strings
4. Migration failed and is now marked as FAILED in `_prisma_migrations` table
5. Prisma refuses to apply new migrations until this is resolved

Current Migration SQL

```
UPDATE "AssistedLivingHome"  
SET status = 'ACTIVE'  
WHERE status = 'DRAFT' OR status IS NULL;
```

Why It Fails

- Database has records with `status = ''` (empty string)
 - Empty string is NOT a valid enum value
 - Migration needs to handle empty strings too
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SOLUTION OPTIONS

OPTION A: Fix via Render Shell (Recommended)

Best for: Quick fix without code changes

Steps:

1. **Open Render Shell:**
 - Go to Render Dashboard
 - Select your service (carelinkai)
 - Click "Shell" tab at the top
 - Wait for shell to connect

2. **Check migration status:**

```
bash
```

```
npx prisma migrate status
```

Expected output:

✗ Following migration have failed:
 20251218162945_update_homes_to_active

1. Mark failed migration as rolled back:

```
bash
npx prisma migrate resolve --rolled-back 20251218162945_update_homes_to_active
```

Expected output:

✓ Migration marked as rolled back

1. Fix the data manually (THE KEY STEP):

```
bash
# Connect to database
psql $DATABASE_URL -c "UPDATE \"AssistedLivingHome\" SET status = 'ACTIVE' WHERE status
= '' OR status IS NULL OR status = 'DRAFT';"
```

Expected output:

UPDATE 3

(or however many records were updated)

1. Deploy all pending migrations:

```
bash
npx prisma migrate deploy
```

Expected output:

✓ Migrations applied successfully

1. Verify migration status:

```
bash
npx prisma migrate status
```

Expected output:

✓ Database schema is up to date!

1. Restart the service:

- Go back to Render Dashboard
- Click “Manual Deploy” → “Deploy latest commit”
- OR just push new code to trigger auto-deploy

OPTION B: Create New Idempotent Migration

Best for: Clean solution with proper migration history

Steps:**1. Mark failed migration as rolled back** (same as Option A, step 3)**2. Create new migration locally:**

```
``bash
cd /home/ubuntu/carelinkai-project
```

Create migration directory

```
mkdir -p prisma/migrations/20251219000000_fix_home_status
```

Create migration SQL

cat > prisma/migrations/20251219000000_fix_home_status/migration.sql << 'EOF'

- Fix AssistedLivingHome status to handle empty strings
- This migration is idempotent and safe to run multiple times

```
UPDATE "AssistedLivingHome"
```

```
SET status = 'ACTIVE'
```

```
WHERE status = 'DRAFT'
```

```
OR status IS NULL
```

```
OR status = ''
```

```
OR status NOT IN ('ACTIVE', 'INACTIVE', 'PENDING', 'ARCHIVED');
```

```
EOF
```

```
```
```

### 1. Commit and push:

```
bash
```

```
git add prisma/migrations/20251219000000_fix_home_status/
```

```
git commit -m "fix: Add idempotent migration to fix home status enum issue"
```


```
git push origin main
```

### 2. Deploy via Render:

- Render will auto-deploy
- Pre-deploy hook will run:
  1. Mark old migration as rolled back
  2. Apply new migration
  3. Success!

## OPTION C: Delete Failed Migration

**Best for:** Nuclear option if nothing else works

 **WARNING:** Only use if Options A and B fail!

### Steps:

#### 1. Connect to production database (via Render Shell or local psql):

```
bash
```

```
psql $DATABASE_URL
```

#### 2. Delete the failed migration record:

```
sql
```

```
DELETE FROM "_prisma_migrations"
```

```
WHERE migration_name = '20251218162945_update_homes_to_active';
```

#### 3. Fix the data:

```
sql
```

```
UPDATE "AssistedLivingHome"
```

```
SET status = 'ACTIVE'
```

```
WHERE status = '' OR status IS NULL OR status = 'DRAFT';
```

#### 4. Exit psql:

```
sql
\q
```

#### 5. Deploy migrations:

```
bash
npx prisma migrate deploy
```

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## ✓ VERIFICATION CHECKLIST

After applying the fix, verify:

### 1. Migration Status

```
npx prisma migrate status
```

**Expected:** ✓ Database schema is up to date!

### 2. Data Status

```
psql $DATABASE_URL -c "SELECT status, COUNT(*) FROM \"AssistedLivingHome\" GROUP BY
status;"
```

**Expected:**

```
status | count
-----+-----
ACTIVE | 5
```

(No empty strings, no NULLs, no DRAFT)

### 3. Deployment Works

```
Trigger a new deployment
git commit --allow-empty -m "test: Verify deployment works"
git push origin main
```

**Expected:** ✓ Build succeeds, pre-deploy succeeds, deployment completes

### 4. Service Health

```
curl https://carelinkai.onrender.com/api/health
```

**Expected:**

```
{"ok":true,"db":"ok","uptimeSec":10,"durationMs":2,"env":"production"}
```

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## TROUBLESHOOTING

### Issue: “Migration not found”

**Cause:** Migration directory was deleted or renamed

**Solution:**

- Check `prisma/migrations/` directory
- If migration is missing, use Option C (delete from database)

### Issue: “Cannot mark as rolled back”

**Cause:** Migration is not in FAILED state

**Solution:**

```
Check current state
npx prisma migrate status

If needed, manually update
psql $DATABASE_URL -c "UPDATE \"_prisma_migrations\" SET rolled_back_at = NOW() WHERE
migration_name = '20251218162945_update_homes_to_active';"
```

### Issue: “Still seeing enum errors”

**Cause:** Not all empty strings were fixed

**Solution:**

```
Find remaining empty strings
psql $DATABASE_URL -c "SELECT id, name, status FROM \"AssistedLivingHome\" WHERE
status = '';"

Fix them
psql $DATABASE_URL -c "UPDATE \"AssistedLivingHome\" SET status = 'ACTIVE' WHERE
status = '';"
```

### Issue: “New migrations still blocked”

**Cause:** `_prisma_migrations` table still shows failed

**Solution:**

```
Check migration table
psql $DATABASE_URL -c "SELECT migration_name, finished_at, rolled_back_at, logs FROM
\"_prisma_migrations\" WHERE migration_name LIKE '%20251218162945%';"

If still failed, delete it
psql $DATABASE_URL -c "DELETE FROM \"_prisma_migrations\" WHERE migration_name =
'20251218162945_update_homes_to_active';"
```

## STEP-BY-STEP EXECUTION (Recommended Path)

### Phase 1: Immediate Fix (5 minutes)

1. Open Render Shell
2. Run: `npx prisma migrate resolve --rolled-back 20251218162945_update_homes_to_active`

3. Run:

```
psql $DATABASE_URL -c "UPDATE \"AssistedLivingHome\" SET status = 'ACTIVE' WHERE status = '' OR status IS NULL OR status = 'DRAFT';"
```

4. Run: `npx prisma migrate deploy`

5. Verify: `npx prisma migrate status`

## Phase 2: Fix OpenAI Issue (5 minutes)

1. Add `OPENAI_API_KEY` to Render environment variables
2. OR modify code to make OpenAI lazy-loaded (see `OPENAI_FIX_GUIDE.md`)
3. Commit and push changes
4. Wait for auto-deploy

## Phase 3: Test Deployment (10 minutes)

1. Wait for deployment to complete
2. Run: `curl https://carelinkai.onrender.com/api/health`
3. Access: <https://carelinkai.onrender.com/operator/inquiries/pipeline>
4. Verify everything works

## Phase 4: Comprehensive Testing (30 minutes)

1. Follow `TESTING_GUIDE.md`
2. Document findings
3. Mark Feature #4 as complete (or identify remaining issues)

**Total time:** ~50 minutes from start to finish



## SUCCESS CRITERIA

The migration fix is successful when:

- ☐ `npx prisma migrate status` shows ☒ Database schema is up to date
- ☐ No records in `AssistedLivingHome` have empty string or NULL status
- ☐ New deployments complete successfully
- ☐ Pre-deploy hook passes without errors
- ☐ Service is running and accessible
- ☐ Pipeline Dashboard loads without errors



## AFTER THE FIX

Once migration is fixed:

1. **Update deployment documentation** with lessons learned
2. **Add validation** to prevent empty strings in future:

```
prisma
 model AssistedLivingHome {
 status HomeStatus @default(ACTIVE) // Add default!
 }
```

3. **Add database constraints** to enforce valid statuses
  4. **Test locally** before deploying to production
  5. **Create rollback plan** for future migrations
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**Ready to fix? Let's do this! 💪**