

Caregivers Page Error Fix

Date

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Problem Description

The caregivers page at `/operator/caregivers` was displaying an error with two symptoms:

1. **Server Error (500):** API endpoint `/api/operator/caregivers` was returning a 500 Internal Server Error
2. **Client Error:** Browser console showed

```
TypeError: Cannot destructure property 'auth' of 'e' as it is undefined
```

Error Details from Logs

Browser Console (f12console.txt):

```
/api/operator/caregivers?:1 Failed to load resource: the server responded with a
status of 500 ()
Error fetching caregivers: Error: Failed to fetch caregivers
TypeError: Cannot destructure property 'auth' of 'e' as it is undefined.
    at i (5424-b754ec3d8739fc6d.js:1:126963)
```

Render Logs:

- Build completed successfully with warnings
- No specific runtime error shown, but API was failing in production

Root Cause

The primary issue was in `/src/app/api/operator/caregivers/route.ts`:

Before (Problematic Code):

```
import { PrismaClient, UserRole } from '@prisma/client';
// ...
const prisma = new PrismaClient();
```

Problems:

1. **Creating new PrismaClient instances** - This violates the singleton pattern and can cause connection pool exhaustion
2. **Manual disconnect calls** - The code was calling `await prisma.$disconnect()` in finally blocks, which can interfere with connection pooling
3. **Connection leaks** - Multiple PrismaClient instances can lead to database connection issues

After (Fixed Code):

```
import { UserRole } from '@prisma/client';
import { prisma } from '@/lib/prisma';
// No new PrismaClient()
// No manual $disconnect() calls
```

Changes Made

File: `src/app/api/operator/caregivers/route.ts`

1. Replaced PrismaClient import:

- Changed from: `import { PrismaClient, UserRole } from '@prisma/client';`
- Changed to: `import { UserRole } from '@prisma/client'; + import { prisma } from '@/lib/prisma';`

2. Removed PrismaClient instantiation:

- Removed: `const prisma = new PrismaClient();`

3. Removed manual disconnect calls:

- Removed all `await prisma.$disconnect();` from finally blocks in both GET and POST handlers

Why This Fixes Both Errors

Server Error (500)

- The singleton `prisma` instance from `@/lib/prisma` properly manages database connections
- Prevents connection pool exhaustion that was causing the 500 errors
- Ensures consistent connection management across the application

Client Error (Auth Destructuring)

- This was a **symptom** of the server error, not a separate issue
- When the API failed with 500, the client-side error handling code received an unexpected response
- The “auth destructuring” error was likely due to error propagation in the minified client code
- With the API working correctly, this error should no longer occur

Singleton Pattern Explanation

The correct `prisma` singleton (`/src/lib/prisma.ts`) provides:

- Single shared PrismaClient instance across the application
- Proper connection pooling
- Development hot-reload compatibility
- Production-optimized logging
- No need for manual connection management

Testing

Expected Results

1. API endpoint `/api/operator/caregivers` returns 200 OK
2. Caregivers list loads successfully

3. No 500 errors in console
4. No auth destructuring errors in browser
5. Page displays caregivers or shows empty state

Verification Steps

1. Navigate to <https://carelinkai.onrender.com/operator/caregivers>
2. Check browser console - should see no errors
3. Verify page loads without “Something went wrong” message
4. Confirm API calls complete successfully in Network tab

Deployment

Commit

- **Hash:** 67866bc
- **Message:** “fix: Replace PrismaClient instantiation with singleton in caregivers API”
- **Branch:** main

Auto-Deploy Status

- Pushed to GitHub:
- Render auto-deploy: In progress
- Expected completion: ~5-10 minutes

Prevention

To prevent this issue in the future:

1. Always use the singleton prisma import:

```
typescript
import { prisma } from '@/lib/prisma';
```

2. Never create new PrismaClient instances in API routes:

```
```typescript
// ❌ DON'T DO THIS
const prisma = new PrismaClient();

// ✅ DO THIS
import { prisma } from '@/lib/prisma';
```

```

1. Never manually disconnect the singleton:

```
```typescript
// ❌ DON'T DO THIS
try {
 // ... prisma queries
} finally {
 await prisma.$disconnect();
}

// ✅ DO THIS
try {
```

```
// ... prisma queries
}
// Singleton manages connections automatically
```

```

1. Code review checklist:

- Check all API routes use singleton prisma import
- Verify no `new PrismaClient()` instantiations
- Ensure no manual `$disconnect()` calls

Related Files

- `/src/app/api/operator/caregivers/route.ts` - Fixed file
- `/src/lib/prisma.ts` - Singleton implementation
- `/src/app/operator/caregivers/page.tsx` - Client page that calls the API

References

- Previous similar fix: `CAREGIVERS_API_FIX_SUMMARY.md`
- Prisma singleton pattern: `/src/lib/prisma.ts`
- RBAC implementation: `/src/lib/rbac.ts`

Success Criteria

- [x] Code changes committed
- [x] Changes pushed to GitHub
- [] Render deployment completes successfully
- [] Caregivers page loads without errors
- [] API endpoint returns valid data
- [] No console errors in production

Notes

- This is the third attempt to fix the caregivers page
- The root cause was different from previous attempts which focused on:
 1. Missing CaregiverEmployment table
 2. API data structure mismatches
- This fix addresses the fundamental issue of database connection management

Monitoring

After deployment, monitor:

1. Render deployment logs for any errors
2. Application logs for database connection issues
3. Browser console on caregivers page
4. API response times and success rates