Operators API Fix Summary

Date: December 9, 2024
Commit: `8446d5f`
Status: ✅ **DEPLOYED**

Problem Statement

The Operator Management page was throwing a Prisma query error when trying to load the operators list:

```
Invalid `prisma.operator.findMany()` invocation
```

Root Cause: The API endpoint was attempting to select `user.name` field which doesn't exist in the User model. The User model has `firstName` and `lastName` fields instead.

What Was Fixed

File: `/src/app/api/operators/route.ts`

1. Fixed User Field Selection (Lines 73-79)

Before:

```
user: {
  select: {
    id: true,
    name: true,  // ❌ This field doesn't exist
    email: true,
  },
}
```

After:

```
user: {
  select: {
    id: true,
    firstName: true,  // ✅ Correct field
    lastName: true,   // ✅ Correct field
    email: true,
  },
}
```

2. Fixed Response Construction (Line 118)

Before:

```
userName: op.user.name,  // ❌ Invalid field
```

After:

```
userName: `${op.user.firstName} ${op.user.lastName}`,  // ✅ Combined name
```

3. Fixed Search Query (Lines 58-67)

Before:

```
OR: [
  { companyName: { contains: q.trim(), mode: "insensitive" } },
  { user: { email: { contains: q.trim(), mode: "insensitive" } } },
  { user: { name: { contains: q.trim(), mode: "insensitive" } } },  // ❌ Invalid
]
```

After:

```
OR: [
  { companyName: { contains: q.trim(), mode: "insensitive" } },
  { user: { email: { contains: q.trim(), mode: "insensitive" } } },
  { user: { firstName: { contains: q.trim(), mode: "insensitive" } } },  // ✅
  { user: { lastName: { contains: q.trim(), mode: "insensitive" } } },   // ✅
]
```

Verification Steps

Build Status

```
npm run build
# ✅ Compiled with warnings (pre-existing, unrelated)
# ✅ Build completed successfully
```

Deployment

```
git push origin main
# ✅ Successfully pushed to GitHub
# ✅ Render auto-deploy triggered
```

Expected Outcome

✅ **Operator Management page loads successfully**
✅ **API returns operator list with correct user names**
✅ **Search functionality works across firstName and lastName**
✅ **No more Prisma query errors**

Post-Deployment Validation

Once Render deployment completes, verify:

1. **Load Operator Management Page**:
   - Navigate to `/operator` as admin
   - Should show "Operator Management" page
   - Should display operators table (or empty state if no operators)

2. **Check Network Tab**:
   - `/api/operators?detailed=true` should return 200 OK
   - Response should include `userName` field with combined first/last name

3. **Test Search**:
   - Search by company name ✅
   - Search by email ✅
   - Search by first name ✅
   - Search by last name ✅

Technical Notes

- The User model in Prisma schema has `firstName` and `lastName` fields, not a single `name` field
- This is consistent with the registration and profile management throughout the app
- The fix improves search functionality by allowing searches on both first and last names separately

Related Files

- `/src/app/api/operators/route.ts` - Fixed API endpoint
- `/prisma/schema.prisma` - User model definition (lines 68-150)

Deployment Status

- **Local Build**: ✅ Passed
- **GitHub Push**: ✅ Completed (commit `8446d5f`)
- **Render Auto-Deploy**: 🚀 In Progress
- **Production Verification**: ⏳ Pending

Next Steps

1. ✅ Monitor Render deployment logs
2. ⏳ Verify production deployment
3. ⏳ Test operator management page in production
4. ⏳ Confirm no console errors

End of Report