

Deployment Instructions for Drizzle Migration Fix

Issue Summary

The application was experiencing 500 Internal Server Errors after the Prisma to Drizzle ORM migration. The main issues were:

1. Missing support for Prisma's `include` option in the Drizzle adapter
2. Missing model definitions causing undefined reference errors
3. Incomplete relation handling in database queries

Fix Applied

Pull Request #214 has been created with the following fixes:

- Enhanced Prisma adapter with full `include` support
- Added stub adapters for missing models
- Improved error handling and null checks

Deployment Steps

Option 1: Merge PR and Deploy (Recommended)

1. Review and Merge PR #214

- Visit: <https://github.com/dfultonthebar/Sports-Bar-TV-Controller/pull/214>
- Review the changes
- Merge the PR to main branch

2. SSH into the remote server

```
bash
ssh -p 224 ubuntu@24.123.87.42
```

3. Navigate to project directory

```
bash
cd /path/to/Sports-Bar-TV-Controller
```

4. Pull latest changes

```
bash
git pull origin main
```

5. Install dependencies (if needed)

```
bash
npm install
```

6. Rebuild the application

```
bash
npm run build
```

7. Restart the application

If using PM2:

```
bash
pm2 restart sports-bar-tv-controller
# or
pm2 restart all
```

If using systemd:

```
bash
sudo systemctl restart sports-bar-tv-controller
```

If running directly:

```
bash
# Stop the current process (Ctrl+C or kill)
npm start
```

Option 2: Deploy from Feature Branch (For Testing)

1. SSH into the remote server

```
bash
ssh -p 224 ubuntu@24.123.87.42
```

2. Navigate to project directory

```
bash
cd /path/to/Sports-Bar-TV-Controller
```

3. Fetch and checkout the fix branch

```
bash
git fetch origin
git checkout fix-drizzle-migration-500-errors
```

4. Install dependencies

```
bash
npm install
```

5. Rebuild the application

```
bash
npm run build
```

6. Restart the application

```
bash
pm2 restart sports-bar-tv-controller
# or appropriate restart command
```

Verification Steps

After deployment, verify the fixes by testing these endpoints:

1. Test Audio Processor Endpoint

```
curl http://localhost:3001/api/audio-processor
```

Expected: `{"processors":[]}`

2. Test Matrix Video Input Selection

```
curl http://localhost:3001/api/matrix/video-input-selection
```

Expected: `{"error":"No active matrix configuration found","status":404}` or `{"success":true,"selections":[]}`

3. Test Zones Status (will fail until processor is configured)

```
curl http://localhost:3001/api/audio-processor/atlas-001/zones-status
```

Expected: `{"error":"Audio processor not found","status":404}`

4. Check Application Logs

```
pm2 logs sports-bar-tv-controller
# or
journalctl -u sports-bar-tv-controller -f
```

Look for:

- ☒ No "Cannot read properties of undefined" errors
- ☒ "[Database] Drizzle ORM connected successfully" message
- ☒ Successful API responses

Configure Atlas Processor

Once the application is running without errors, configure the Atlas processor:

```
curl -X POST http://localhost:3001/api/audio-processor \
-H "Content-Type: application/json" \
-d '{
  "name": "Atlas Main Processor",
  "model": "AZM4",
  "ipAddress": "192.168.5.101",
  "port": 80,
  "tcpPort": 5321,
  "zones": 4,
  "description": "Main Atlas Atmosphere DSP"
}'
```

Adjust the model and zones based on your actual Atlas processor model.

Troubleshooting

Issue: Git pull fails with merge conflicts

```
# Stash local changes
git stash

# Pull changes
git pull origin main

# Reapply local changes if needed
git stash pop
```

Issue: Build fails

```
# Clear build cache
rm -rf .next

# Clear node modules and reinstall
rm -rf node_modules package-lock.json
npm install

# Rebuild
npm run build
```

Issue: Application won't start

```
# Check if port 3001 is in use
lsof -i :3001

# Kill process if needed
kill -9 <PID>

# Check logs for errors
pm2 logs sports-bar-tv-controller --lines 100
```

Issue: Database errors

```
# Check database file exists
ls -la prisma/data/sports_bar.db

# Check database permissions
chmod 644 prisma/data/sports_bar.db
```

Network Connectivity Note

Important: The remote server at 24.123.87.42 was not reachable during the fix development. The correct IP appears to be **24.123.87.42** (not 24.123.187.42 as initially provided). Ensure you're using the correct IP address when connecting.

Next Steps After Deployment

1. **Test all API endpoints** to ensure no 500 errors

2. **Configure the Atlas processor** at 192.168.5.101:5321
3. **Test Atlas communication** using the zones-status endpoint
4. **Monitor logs** for any remaining issues
5. **Add missing models** to the Drizzle schema (see PR description for list)

Support

If issues persist after deployment:

1. Check the application logs for specific error messages
2. Verify the database file is accessible and not corrupted
3. Ensure all environment variables are set correctly
4. Review the PR #214 for detailed technical information

Files Modified

- `src/db/prisma-adapter.ts` - Enhanced with include support and missing model stubs

Commit Hash

- Branch: `fix-drizzle-migration-500-errors`
- Commit: `6cf57ea`
- PR: #214