



Music U Scheduler - Release v1.3.04



Critical Fixes & System Stability Release

Release Date: August 17, 2025

Version: 1.3.04

Status: Production Ready



Critical Issues Resolved



1. Frontend Crash Fix

- **Issue:** `role.permissions is undefined` error causing admin panel crashes
- **Root Cause:** Missing null/undefined checks in role management component
- **Solution:** Implemented comprehensive optional chaining (`?.`) throughout the codebase
- **Impact:** Admin panel now stable and functional



2. JWT Session Decryption Failures

- **Issue:** "JWE decryption failed: decryption operation failed" errors
- **Root Cause:** Old or invalid NextAuth session tokens
- **Solution:** Created `clear-sessions.sh` script to regenerate `NEXTAUTH_SECRET` and clear cache
- **Impact:** All authentication issues resolved



3. User Creation Functionality

- **Issue:** User creation failing in admin panel
- **Root Cause:** Frontend crashes and session issues blocking functionality
- **Solution:** Fixed frontend stability and authentication flow
- **Impact:** Full admin capabilities restored



Technical Improvements



Enhanced Error Handling

```
// Before: Crash-prone code
const permissionCount = role.permissions.length;

// After: Safe code with null checks
const permissionCount = role.permissions?.length || 0;
```



Session Management

- Added `clear-sessions.sh` maintenance script
- Automated `NEXTAUTH_SECRET` regeneration
- Cache clearing capabilities

- Force session invalidation for clean authentication state

Frontend Stability

- All `role.permissions` access points secured
 - Form data initialization protected
 - Array operations safeguarded
 - TypeScript compilation clean
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Deployment Status

Production Ready

- All critical errors resolved
- TypeScript compilation successful
- Next.js build passing
- Authentication working
- Admin functionality operational

Access Information

- **Frontend:** `http://localhost:3000`
 - **Backend:** `http://localhost:8080`
 - **Admin Credentials:** `admin` / `MusicU2025`
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Testing Checklist

Completed Tests

- [x] Frontend compilation successful
- [x] Role management panel accessible
- [x] User creation functional
- [x] Authentication flow working
- [x] Session token handling stable
- [x] Admin panel fully operational

Test Scenarios Verified

- [x] Login as admin user
 - [x] Access role management
 - [x] Create new users
 - [x] Edit existing roles
 - [x] Session persistence
 - [x] Error handling in edge cases
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Update Instructions

For Existing Installations:

```
# Pull latest changes
git pull origin main

# Clear old sessions (if experiencing auth issues)
./clear-sessions.sh

# Restart services
npm run dev
```

For New Installations:

```
# Clone the repository
git clone https://github.com/dfultonthebar/Music-U-Scheduler.git
cd Music-U-Scheduler

# Checkout the latest release
git checkout v1.3.04

# Follow installation guide
```

Documentation Updated

- [x] Release notes created
- [x] Version bumped in package.json
- [x] Git tags created
- [x] GitHub repository updated
- [x] Changelog maintained

Next Steps

The system is now **production-ready** with all critical issues resolved. Users can:

1. Log in as admin
2. Access all admin features
3. Create and manage users
4. Manage roles and permissions
5. Use the system without crashes or authentication errors

 **The Music U Scheduler is now stable and fully operational!**