

Authentication Fixes - Version 1.3.01



Critical Login Issues Resolved

This update resolves critical authentication issues that were preventing users from logging in to the Music U Scheduler application.



Issues Fixed

1. NextAuth.js Configuration Errors

- **Problem:** NextAuth.js was failing to compile due to webpack configuration issues
- **Solution:** Updated `/app/api/auth/[...nextauth]/route.ts` with proper export syntax
- **Impact:** Frontend now builds and runs without NextAuth errors

2. Missing Environment Variables

- **Problem:** `NEXTAUTH_SECRET` environment variable was empty, causing session failures
- **Solution:** Generated secure `NEXTAUTH_SECRET` and added to `.env.local`
- **Impact:** Sessions now work properly with secure JWT handling

3. Session Cookie Failures

- **Problem:** NextAuth sessions were not being created or persisted properly
- **Solution:** Enhanced NextAuth configuration with proper cookie settings
- **Impact:** Login sessions now persist across page reloads

4. TypeScript Build Errors

- **Problem:** Type errors in debug components preventing frontend build
- **Solution:** Fixed type assertions in `/app/app/debug/page.tsx`
- **Impact:** Frontend builds successfully without errors

5. NextAuth Route Configuration

- **Problem:** Incorrect route export syntax causing compilation failures
- **Solution:** Updated to use proper Next.js 14 App Router export patterns
- **Impact:** NextAuth API routes now function correctly



Verification

Backend Authentication (Working)

```
curl -X POST "http://localhost:8080/auth/login" \  
-H "Content-Type: application/x-www-form-urlencoded" \  
-d "username=admin&password=MusicU2025"
```




Result: Returns valid JWT token

Admin Credentials (Confirmed)

- **Username:** `admin`

- **Password:** MusicU2025
- **Role:** Admin
- **Status:** Active

Services Status

- **Backend:**  Running on `http://localhost:8080`
- **Frontend:**  Running on `http://localhost:3000`
- **Database:**  SQLite with admin user initialized

Installation & Usage

For New Installations

```
git clone https://github.com/[your-repo]/music-u-scheduler-frontend.git
cd music-u-scheduler-frontend
./install.sh
```

For Existing Users - Update Process

```
cd music-u-scheduler-frontend
git pull origin main
./manage-services.sh restart all
```

Login Instructions

1. Open browser to `http://localhost:3000/login`
2. Enter credentials:
 - **Username:** admin
 - **Password:** MusicU2025
3. Click "Login"
4. You should now access the admin dashboard

Technical Details

Files Modified

- `/app/api/auth/[...nextauth]/route.ts` - Fixed NextAuth route exports
- `/app/lib/auth.ts` - Enhanced session and cookie configuration
- `/app/.env.local` - Added NEXTAUTH_SECRET and NEXTAUTH_URL
- `/app/app/debug/page.tsx` - Fixed TypeScript type errors
- `/app/package.json` - Updated version to 1.3.01
- `/app/main.py` - Updated backend version to 1.3.01

Environment Variables Added

```
NEXTAUTH_SECRET=vx8ifD36vpW7(Wpy7TBZq1^9P1@rTu1H
NEXTAUTH_URL=http://localhost:3000
```

NextAuth Configuration Improvements

- Added explicit cookie configuration
- Enhanced JWT session handling
- Improved error handling and logging
- Better integration with FastAPI backend

Troubleshooting

If Login Still Fails

1. Check Services Are Running:

```
bash
cd music-u-scheduler-frontend
./manage-services.sh status
```

2. Restart Services:

```
bash
./manage-services.sh restart all
```

3. Check Environment Variables:

```
bash
cd app
cat .env.local
```

4. Verify Admin User:

```
bash
python3 -c "
import sys; sys.path.append('.')
from app.database import get_db
from app import crud
db = next(get_db())
admin = crud.get_user_by_username(db, 'admin')
print(f'Admin exists: {admin is not None}')
if admin: print(f'Active: {admin.is_active}')
```

Clear Browser Data

If issues persist, clear browser cookies and local storage for `localhost:3000`

Changelog Entry

Version: 1.3.01

Date: 2025-08-17

Type: Critical Patch

Changes:

- Fixed NextAuth.js webpack compilation errors
- Added missing NEXTAUTH_SECRET environment variable
- Resolved session cookie authentication failures
- Fixed NextAuth route configuration issues
- Enhanced cookie and JWT session management

- Corrected TypeScript errors preventing frontend build
- Improved NextAuth configuration for production stability
- Verified admin login credentials (Username: admin, Password: MusicU2025)

Important Notes

- This is a **critical security update** that resolves authentication vulnerabilities
 - All users should update immediately
 - Admin credentials remain unchanged: `admin` / `MusicU2025`
 - Sessions are now more secure with proper JWT handling
 - No database migrations required
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