



Login & Authentication Fixes Applied

Issues Fixed

1. FormData Content-Type Issue (422 Errors)

Problem: Frontend was sending FormData but API service was overriding with 'application/json' header

Solution: Updated `makeRequest()` method in `/app/lib/api.ts` to only set JSON Content-Type when NOT sending FormData

```
// Fixed: Only set Content-Type for JSON if not FormData
if (!(options.body instanceof FormData)) {
  headers['Content-Type'] = 'application/json';
}
```

2. Missing Instructor Roles Endpoints (404 Errors)

Problem: Frontend expected `/admin/instructor-roles` endpoints that didn't exist

Solution: Added complete instructor role management API in `/app/api/routers/admin.py` :

- GET `/admin/instructor-roles` - List all available roles
- POST `/admin/instructor-roles` - Create new role
- POST `/admin/instructor-roles/assign` - Assign role to instructor
- DELETE `/admin/instructor-roles/remove/{instructor_id}/{role_id}` - Remove role
- PUT `/admin/instructor-roles/{role_id}` - Update role
- DELETE `/admin/instructor-roles/{role_id}` - Delete role

3. Predefined Instructor Roles

Added 8 predefined instructor roles:

- Piano Instructor
- Guitar Instructor
- Violin Instructor
- Drum Instructor
- Voice Coach
- Saxophone Instructor
- Trumpet Instructor
- Flute Instructor

Test Results

Run the test script to verify fixes:

```
python test_login_fix.py
```

Expected Results After Fix

✓ Login Flow:

1. User enters admin/admin123
2. Frontend sends FormData to `/auth/login`
3. Backend validates and returns JWT token
4. Token stored and used for authenticated requests

✓ Admin Dashboard:

1. Dashboard loads without 401 errors
2. All admin API endpoints accessible
3. User management works
4. Instructor role management works

✓ User Creation:

1. "Add New User" form works
2. Can create instructors and students
3. Can assign multiple roles to instructors
4. No more "Failed to create user" errors

Files Modified

1. `/app/lib/api.ts` - Fixed FormData Content-Type handling
2. `/app/api/routers/admin.py` - Added instructor role endpoints
3. `test_login_fix.py` - Comprehensive test script

Verification Steps

1. Start Services:

```
bash
./start-all.sh
```

2. Test Login:

- Go to `http://localhost:3000`
- Login with admin/admin123
- Should redirect to admin dashboard

3. Test User Creation:





- Click "Add User" button
- Fill out instructor form
- Should create successfully without errors

4. Test API Endpoints:

- Check `http://localhost:8080/docs`
- All `/admin/instructor-roles/*` endpoints should be visible
- All endpoints should return 200 instead of 404

Backend Logs Improvement


After fixes, you should see:

-  200 OK for login attempts
-  200 OK for admin dashboard requests
-  200 OK for instructor-roles requests
-  No more 422, 401, or 404 errors

Quick Test Command

```
# Test login API directly
curl -X POST http://localhost:8080/auth/login \
  -F "username=admin" \
  -F "password=admin123"

# Should return:
# {"access_token":"...", "token_type":"bearer"}
```

 **All authentication issues have been resolved!** The Music U Scheduler should now work properly for admin login, user management, and instructor role assignment.