

# Music U Scheduler - Installer Fixes v2.1

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## Fixed Online Installer Now Available!

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The installation script has been updated to resolve all the issues encountered during manual testing.



## Key Fixes Applied

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### 1. ESLint Conflict Resolution

- **Issue:** ESLint version conflict between project (v9.24.0) and TypeScript parser (expects v8.56.0)
- **Fix:** Added `--legacy-peer-deps` flag to npm install commands
- **Impact:** Eliminates dependency resolution errors during frontend installation

### 2. Enhanced Virtual Environment Handling

- **Issue:** Virtual environment path mismatches and activation failures
- **Fix:**
  - Added corruption detection and cleanup
  - Enhanced path verification and validation
  - Better error messages and troubleshooting info
- **Impact:** Prevents virtual environment creation/activation issues

### 3. Improved Frontend Dependency Installation

- **Issue:** npm install failures due to peer dependency conflicts
- **Fix:**
  - Uses `--legacy-peer-deps` by default for npm
  - Fallback mechanisms with `--force` option
  - Better error handling and recovery
- **Impact:** More reliable frontend dependency installation

### 4. Comprehensive Installation Testing

- **Issue:** No verification of successful installation
- **Fix:**
  - Added virtual environment verification
  - TypeScript compilation testing
  - Frontend build capability testing
  - Backend import validation
- **Impact:** Ensures installation actually works before completion



## One-Line Installation Command

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```
curl -sSL https://raw.githubusercontent.com/dfultonthebar/Music-U-Scheduler/main/install.sh | bash
```

## Alternative Installation Methods

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### Method 1: Download and Run

```
wget https://raw.githubusercontent.com/dfultonthebar/Music-U-Scheduler/main/install.sh
chmod +x install.sh
./install.sh
```

### Method 2: Clone Repository First

```
git clone https://github.com/dfultonthebar/Music-U-Scheduler.git
cd Music-U-Scheduler
./install.sh
```

## What The Updated Installer Does

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#### 1. System Requirements Check

- Verifies Python 3.8+ installation
- Checks Node.js availability
- Validates required system packages

#### 2. Clean Environment Setup

- Stops any existing services on ports 3000/8080
- Creates clean virtual environment
- Removes any corrupted existing installations

#### 3. Backend Installation

- Creates properly isolated Python virtual environment
- Activates and verifies virtual environment paths
- Installs all Python dependencies with error handling
- Sets up SQLite database

#### 4. Frontend Installation

- Uses `npm install --legacy-peer-deps` for ESLint compatibility
- Handles dependency conflicts gracefully
- Provides fallback installation methods
- Verifies installation success

#### 5. Configuration Setup

- Creates environment files for both backend and frontend
- Sets up startup scripts
- Creates service management tools

#### 6. Installation Verification

- Tests virtual environment activation
- Verifies all dependencies are installed
- Tests TypeScript compilation
- Validates basic build capability


#### 7. Service Management

- Creates start/stop/restart scripts

- Provides service status checking
- Sets up proper cleanup on exit

## Expected Results

After successful installation, you should see:

 Music U Scheduler - Ready to Use! 

### Quick Start Commands:

```
Start all services:    ./start-all.sh
Backend only:         ./start-backend.sh
Frontend only:        ./start-frontend.sh
Manage services:      ./manage-services.sh {start|stop|restart|status}
```

### Access URLs:

```
Frontend App:         http://localhost:3000
Backend API:          http://localhost:8080
API Documentation:    http://localhost:8080/docs
```

## Troubleshooting

### If Installation Still Fails:

#### 1. Check Prerequisites:

```
bash
python3 --version # Should be 3.8+
node --version    # Should be 18+
npm --version     # Should be recent version
```

#### 2. Manual Installation Steps:






- Follow the exact steps we used in manual testing
- Use `npm install --legacy-peer-deps` for frontend
- Ensure virtual environment is created in correct location

#### 3. Common Issues:

- **Port conflicts:** Stop services using ports 3000/8080
- **Permission issues:** Don't run as root/sudo
- **Network issues:** Ensure internet connectivity for downloads

## Testing Results

The updated installer has been tested with:

-  Ubuntu 24.04.3 LTS
-  Python 3.12
-  Node.js v18+
-  Fresh system installations
-  Systems with existing Node/Python installations

## **Ready to Install!**


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The fixed installer is now live on GitHub and ready for use. Users can now install Music U Scheduler with a single command without encountering the ESLint conflicts or virtual environment issues.

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Last updated: August 16, 2025

Version: 2.1

Status:  Ready for production use