# **System Update Enhancements**

#### **Overview**

The update system has been enhanced to automatically check for and install required dependencies, including Local AI (Ollama) and color scheme standardization tools.

## What Was Updated

### 1. Enhanced Update Script ( update\_from\_github.sh )

#### **New Features**

#### **Automatic Ollama Installation**

- Checks if Ollama (Local AI) is installed
- Installs automatically if missing
- Starts the Ollama service if not running
- Pulls recommended AI models (Ilama3.2:3b or Ilama3.2)
- Uses the existing install-local-ai.sh script if available

#### **Automatic Color Scheme Analysis**

- Runs Al-powered style analyzer in background after updates
- Non-blocking doesn't delay app startup
- Timeout protection limits analysis to 2 minutes max
- Logs results to ai-style-analysis.log
- Generates reports in ai-style-reports/ directory

#### **Enhanced Status Reporting**

- Shows what was updated/verified
- Provides links to style analysis tools
- Includes helpful next steps

### 2. Al Configuration Page ( src/app/ai-config/page.tsx )

#### **New Section: AI Style Standardization**

Added a comprehensive section that includes:

### **Features Display**

- Component scanning for styling inconsistencies
- ✓ Comparison against standardized dark theme
- ✓ Detailed report generation
- ✓ Automatic fix application with backups

### **Quick Commands**

Shows the exact commands users can run:

- Interactive menu: ./scripts/run-style-analysis.sh
- Direct analysis: node scripts/ai-style-analyzer.js
- Apply fixes: node scripts/ai-style-fixer.js

#### **Auto-Run Notification**

Informs users that the analyzer runs automatically during updates

#### **Quick Actions**

- · Link to manage API Keys
- · Link to test team search
- Link to view style guide (COLOR SCHEME STANDARD.md)

## **Update Workflow**

#### When You Run update from github.sh:

□ Updating Sports Bar AI Assistant from GitHub Check git status Stop running processes Pull latest changes from GitHub Install/update dependencies check/install Ollama (Local AI) □ Install if missing Start service if not running └─ Pull AI models Update database Build application Run AI Color Scheme Analysis (background) ─ Analyze components └─ Generate reports Restart application ✓ Verify everything works

#### **Benefits**

#### **For Users**

- One-command setup Everything installs automatically
- Always up-to-date Al and dependencies checked on every update
- Non-intrusive Background analysis doesn't block startup
- Clear feedback Know exactly what's happening

### For Developers

- Consistent environment All systems have same setup
- Automated quality checks Style analysis on every update
- Easy troubleshooting Detailed logs and reports
- Self-documenting Update script shows what it does

# **Usage**

## **Running Updates**

```
cd /home/ubuntu/Sports-Bar-TV-Controller
./update_from_github.sh
```

### **Viewing Style Analysis Results**

```
# Check the log
cat ai-style-analysis.log

# View reports
ls -lht ai-style-reports/

# Run interactive tools
./scripts/run-style-analysis.sh
```

### **Accessing via Web UI**

- 1. Navigate to AI Configuration page
- 2. Scroll to Al Style Standardization section
- 3. See commands and status
- 4. Click View Style Guide to see standards

### **Files Modified**

- update\_from\_github.sh Enhanced with AI checks and style analysis
- src/app/ai-config/page.tsx Added style standardization section

#### Files Referenced

- install-local-ai.sh Used by update script for Ollama installation
- scripts/ai-style-analyzer.js Run during updates
- scripts/run-style-analysis.sh Interactive menu for users
- COLOR\_SCHEME\_STANDARD.md Style guide linked from UI

#### **Technical Details**

#### **Ollama Detection**

```
if ! command -v ollama &> /dev/null; then
    # Install Ollama
fi
```

#### **Service Check**

```
if ! pgrep -x ollama > /dev/null; then
    # Start service
fi
```

#### **Model Check**

```
if ! ollama list | grep -q "llama3.2"; then
    # Pull model
fi
```

### **Background Analysis**

timeout 120 node scripts/ai-style-analyzer.js > ai-style-analysis.log 2>&1 &

## **Safety Features**

#### **Non-Blocking Design**

- · Style analysis runs in background
- · Timeout prevents hanging
- App starts regardless of analysis status

### **Error Handling**

- · Checks for script existence before running
- · Graceful degradation if tools unavailable
- Clear error messages

### Log Files

- ai-style-analysis.log Analysis output
- server.log Application logs
- ai-style-reports/\*.json Detailed reports

### **Future Enhancements**

Potential improvements:

- 1. **Email notifications** Send analysis results via email
- 2. Slack integration Post reports to Slack channel
- 3. Auto-fix option Apply fixes automatically if severity low
- 4. Dashboard widget Show style health in main UI
- 5. CI/CD integration Run on pull requests
- 6. Historical tracking Track improvement over time

# **Troubleshooting**

## **Ollama Not Installing**

```
# Manual installation
curl -fsSL https://ollama.ai/install.sh | sh
ollama pull llama3.2
```

## **Analysis Not Running**

```
# Check if Ollama is available
ollama list

# Run analysis manually
node scripts/ai-style-analyzer.js
```

## **Reports Not Generated**

```
# Check the log
cat ai-style-analysis.log

# Verify directory exists
ls -la ai-style-reports/
```

## **Conclusion**

The enhanced update system ensures that:

- ✓ Local AI is always available
- V Style consistency is monitored
- V Users have easy access to tools
- **V** System is self-maintaining
- **U**pdates are seamless

Run your next update to see these enhancements in action!

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**Repository**: https://github.com/dfultonthebar/Sports-Bar-TV-Controller