

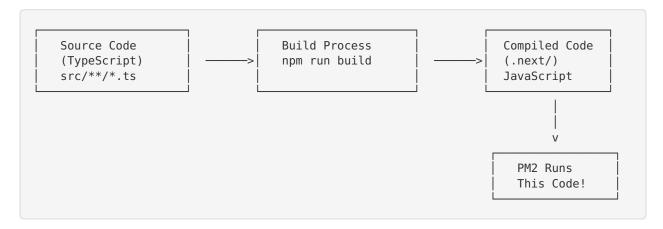
🚨 REBUILD REQUIRED AFTER PULLING CODE

What Happened?

You pulled the latest code changes with git pull, but the errors are still appearing because you didn't rebuild the application!

The Problem: Source Code vs. Compiled Code

Next.js is a **compiled framework**. Here's what that means:



Key Points:

- 1. **Source code** = What you edit in src/ directory (TypeScript)
- 2. **Compiled code** = What PM2 actually runs (JavaScript in .next/ directory)
- 3. git pull = Updates source code only 🗸
- 4. npm run build = Compiles source → compiled code <a>
 ✓
- 5. pm2 restart = Restarts the app using compiled code 🗸

What You Did:

```
git pull origin main
                         # 🔽 Updated source code
pm2 restart all
                        # 🔽 Restarted the app
# X MISSING: npm run build # ← This is the problem!
```

Why Errors Persist:

Even though your source code has the fixes:

- detGenerationJobStatus export exists in source
- Concurrent workers reduced to 3
- V File size logging added

BUT the compiled code in .next/ still has the OLD code:

- X Missing getGenerationJobStatus export
- X Old worker count
- X No file size logging

PM2 runs the **compiled code**, not the source code!

The Fix: Rebuild Your Application

Step 1: Stop PM2

pm2 stop all

Step 2: Navigate to Your Installation

cd ~/Sports-Bar-TV-Controller

Step 3: Pull Latest Changes (if not already done)

git pull origin main

Step 4: REBUILD THE APPLICATION (This is the critical step!)

npm run build

What this does:

- Compiles TypeScript → JavaScript
- Bundles all dependencies
- Optimizes code for production
- Updates the .next/ directory with fresh compiled code
- This is what PM2 will actually run!

Expected output:

- ✓ Compiled successfully
- ✓ Linting and checking validity of types
- ✓ Collecting page data
- ✓ Generating static pages (X/X)
- Finalizing page optimization

Step 5: Restart PM2

pm2 restart all

Step 6: Verify the Fix

pm2 logs --lines 50

Look for:

- No more "getGenerationJobStatus is not a function" errors
- ✓ "Starting Q&A generation for X files with 3 concurrent workers"
- ✓ File size logging: "[X/Y] Processing (0.06MB): /path/to/file"

Complete Command Sequence

Copy and paste this entire block:

```
# Stop the application
pm2 stop all

# Navigate to installation directory
cd ~/Sports-Bar-TV-Controller

# Pull latest changes
git pull origin main

# Install any new dependencies (just in case)
npm install

# REBUILD THE APPLICATION (Critical!)
npm run build

# Restart the application
pm2 restart all

# Check logs for verification
pm2 logs --lines 50
```

Verification Script

We've created a script to check if your build is up-to-date:

```
cd ~/Sports-Bar-TV-Controller
bash scripts/verify_build.sh
```

This will tell you if you need to rebuild.

Understanding the Build Process

When Do You Need to Rebuild?

ALWAYS rebuild after:

- ✓ git pull (pulling code changes)
- ✓ Editing TypeScript files in src/
- Changing configuration files
- Installing new npm packages
- **Updating dependencies**

You DON'T need to rebuild for:

- X Restarting PM2 only
- X Changing environment variables (.env)
- X Viewing logs

Build Time

The build process typically takes 1-3 minutes depending on:

- Number of changes
- Server resources
- Cache state

Don't skip it! It's essential for your changes to take effect.

Troubleshooting

Build Fails with Errors

If npm run build fails:

1. Check for TypeScript errors:

```
npm run type-check
```

2. Clear cache and rebuild:

```
bash
  rm -rf .next
  npm run build
```

3. Reinstall dependencies:

```
bash
  rm -rf node_modules
  npm install
  npm run build
```

Errors Still Appear After Rebuild

- 1. Verify build completed successfully:
 - Look for "✓ Compiled successfully" message
 - Check that .next/ directory was updated

2. Check PM2 is using the right directory:

```
bash
  pm2 describe sports-bar-tv-controller
- Verify "cwd" points to ~/Sports-Bar-TV-Controller
```

3. Hard restart PM2:

```
bash
  pm2 delete all
  pm2 start ecosystem.config.js
```

Still Having Issues?

Check the logs:

```
pm2 logs --lines 100
```

Look for:

- Build errors
- Import errors
- Missing dependencies

Prevention: Always Remember

The Golden Rule:

```
git pull → npm run build → pm2 restart
```

Never skip the middle step!

Think of it like this:

- git pull = Getting new ingredients
- npm run build = Cooking the meal
- pm2 restart = Serving the meal

You can't serve raw ingredients! You need to cook them first. Q

Quick Reference Card

```
AFTER PULLING CODE, ALWAYS RUN:

1. pm2 stop all
2. cd ~/Sports-Bar-TV-Controller
3. git pull origin main
4. npm run build ← DON'T SKIP THIS!

5. pm2 restart all
6. pm2 logs --lines 50 (verify)

Build time: 1-3 minutes

This is REQUIRED for changes to take effect!
```

Summary

- **V** Source code (what you edit) ≠ Compiled code (what runs)
- 🗸 git pull updates source, but PM2 runs compiled code
- ✓ npm run build is **REQUIRED** to compile source → compiled
- Without rebuilding, your changes won't take effect
- ✓ Always: git pull → npm run build → pm2 restart

Remember: Next.js is not like PHP or Python where you can just edit and reload. It's a compiled framework that requires a build step!