

# QuantumLeap AI - Yarn to npm Migration Summary

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**Date:** November 10, 2025

**Project:** QuantumLeap AI Corporate Website

**Repository:** <https://github.com/AICyberSecurity911/WBsite.git>

**Migration Status:**  **COMPLETE**

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## Migration Overview

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Successfully migrated the QuantumLeap AI Next.js project from Yarn to npm as the exclusive package manager. All Yarn-specific files, configurations, and documentation have been updated to use npm exclusively.

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## Completed Actions

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### 1. Removed Yarn-Specific Files

-  Deleted `yarn.lock` from `/home/ubuntu/quantumleap_io/nextjs_space/`
-  Deleted `.yarnrc.yml` configuration file
-  Added `/.yarn` directory to `.gitignore` (Yarn cache directory)
-  Confirmed no Yarn files in project root (yarn.lock files in node\_modules are from dependencies and are expected)

### 2. Updated Documentation

Updated all project documentation to use npm commands instead of Yarn:

#### Files Modified:

-  `/nextjs_space/README.md`
-  `/nextjs_space/DEVELOPER_HANDOVER.md`
-  `/DEVELOPER_HANDOVER.md` (root copy)
-  `/nextjs_space/public/DEVELOPER_HANDOVER.md` (public copy)
-  `/CORAL_REEF_DESIGN_SYSTEM.md`

#### Key Changes:

- Replaced all `yarn install` → `npm install --legacy-peer-deps`
- Replaced all `yarn dev` → `npm run dev`
- Replaced all `yarn build` → `npm run build`
- Replaced all `yarn start` → `npm start`
- Replaced all `yarn add` → `npm install`
- Updated package manager references from “Yarn” to “npm”

### 3. Updated .gitignore

-  Removed Yarn-specific debug log entries ( `yarn-debug.log*` , `yarn-error.log*` )

- ✓ Kept npm-specific entries ( `npm-debug.log*` )
- ✓ Added `.npm/` directory to ignore list

## 4. Package Management

- ✓ Verified `package.json` scripts are npm-compatible (they already were)
- ✓ Generated new `package-lock.json` (682KB)
- ✓ Successfully ran `npm install --legacy-peer-deps`
- ✓ Installed 1,333 packages without errors

## 5. Build Verification

- ✓ Successfully ran `npm run build`
- ✓ Confirmed TypeScript compilation works
- ✓ Verified all static pages generate correctly (41/41 pages)
- ✓ No critical errors during build process

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## Important Notes for Developers

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### 1. Always Use `--legacy-peer-deps` Flag

Due to peer dependency conflicts (specifically between `react-hook-form@7.53.0` and `@hookform/resolvers@5.2.2` ), you must always use the `--legacy-peer-deps` flag when installing packages:

```
# Correct
npm install --legacy-peer-deps

# Adding new packages
npm install <package-name> --legacy-peer-deps
```

### 2. Standard npm Commands

```
# Install dependencies
npm install --legacy-peer-deps

# Run development server
npm run dev

# Build for production
npm run build

# Start production server
npm start

# Run linter
npm run lint

# Prisma commands (manually prefix with npx)
npx prisma generate
npx prisma db push
npx prisma studio
```

### 3. Do NOT Use Yarn

- ❌ Do not run `yarn install`
- ❌ Do not run `yarn add`
- ❌ Do not create new `yarn.lock` files
- ❌ Do not use `npx` without understanding the context

### 4. CI/CD Considerations

If you have CI/CD pipelines (GitHub Actions, Vercel, etc.), ensure they:

- Use `npm install --legacy-peer-deps` for installation
- Use `npm run build` for building
- Do not reference Yarn anywhere



### Verification Checklist

- [x] All `yarn.lock` files removed
- [x] All `.yarnrc` and `.yarnrc.yml` files removed
- [x] Documentation updated (README, DEVELOPER\_HANDBOOK, etc.)
- [x] `.gitignore` updated for npm
- [x] `package-lock.json` generated successfully
- [x] `npm install --legacy-peer-deps` works without errors
- [x] `npm run dev` starts development server
- [x] `npm run build` completes successfully
- [x] No Yarn references remain in codebase



### Next Steps for Team

1. **Pull Latest Changes:** Ensure all team members pull the latest code with npm configuration
  2. **Clean Install:** Each developer should run:

```
bash
cd /home/ubuntu/quantumleap_io/nextjs_space
rm -rf node_modules
npm install --legacy-peer-deps
```
  3. **Update IDEs:** Configure your IDE/editor to use npm instead of Yarn
  4. **Update Deployment:** Verify deployment platforms use npm commands
  5. **Team Communication:** Notify all team members about the migration
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## Migration Statistics

Metric	Value
Files Modified	6 documentation files
Yarn Files Removed	2 ( yarn.lock , .yarnrc.yml )
npm Packages Installed	1,333
Build Status	 Success
Static Pages Generated	41/41
Migration Time	~15 minutes

## Known Issues & Solutions

### Issue 1: Peer Dependency Conflicts

**Problem:** Direct `npm install` fails with peer dependency errors

**Solution:** Always use `npm install --legacy-peer-deps`


### Issue 2: Old Yarn Habits

**Problem:** Team members may accidentally run Yarn commands

**Solution:** Document npm commands prominently, consider adding `.yarnrc.yml` with error message

## File Changes Summary

### Modified Files

```
/home/ubuntu/quantumleap_io/
├── CORAL_REEF_DESIGN_SYSTEM.md (updated: yarn  npm commands)
├── DEVELOPER_HANOVER.md (updated: package manager section)
├── nextjs_space/
│   ├── .gitignore (updated: removed yarn entries)
│   ├── README.md (updated: installation instructions)
│   ├── DEVELOPER_HANOVER.md (updated: complete npm migration)
│   ├── package-lock.json (created: 682KB, 1,333 packages)
│   └── public/
│       └── DEVELOPER_HANOVER.md (synced from parent)
```

### Removed Files

```
/home/ubuntu/quantumleap_io/nextjs_space/
├── yarn.lock (removed)
└── .yarnrc.yml (removed)
```

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## Learning Resources

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For team members unfamiliar with npm:

- [npm Documentation](https://docs.npmjs.com/) (https://docs.npmjs.com/)
  - [npm CLI Commands](https://docs.npmjs.com/cli/v8/commands) (https://docs.npmjs.com/cli/v8/commands)
  - [Understanding package-lock.json](https://docs.npmjs.com/cli/v8/configuring-npm/package-lock-json) (https://docs.npmjs.com/cli/v8/configuring-npm/package-lock-json)
  - [Legacy Peer Dependencies](https://docs.npmjs.com/cli/v8/using-npm/config#legacy-peer-deps) (https://docs.npmjs.com/cli/v8/using-npm/config#legacy-peer-deps)
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## Migration Validation

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To validate the migration was successful, run:

```
cd /home/ubuntu/quantumleap_io/nextjs_space

# Check for Yarn files (should return nothing)
find . -name "yarn.lock" -o -name ".yarnrc*" 2>/dev/null

# Verify npm installation
npm install --legacy-peer-deps

# Test development server
npm run dev

# Test production build
npm run build
```

All commands should complete without Yarn-related errors.

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## Support & Questions

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If you encounter issues after the migration:

1. Verify you're using the `--legacy-peer-deps` flag
  2. Check you've removed all `yarn.lock` files from your local clone
  3. Review this document for common solutions
  4. Contact the development team for assistance
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**Migration Completed By:** DeepAgent (Abacus.AI)

**Review Status:** Ready for team review and testing

**Deployment Status:** Ready for deployment with npm

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