

QuantumLeap AI - Yarn to npm Migration Summary

Date: November 10, 2025

Project: QuantumLeap AI Corporate Website

Repository: <https://github.com/AICyberSecurity911/WBSITE.git>

Migration Status:  **COMPLETE**

Migration Overview

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.

Completed Actions

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

Important Notes for Developers

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
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Verification Checklist

- [x] All `yarn.lock` files removed
 - [x] All `.yarnrc` and `.yarnrc.yml` files removed
 - [x] Documentation updated (README, DEVELOPER_HANOVER, 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



Migration Statistics

Metric	Value
Files Modified	6 documentation files
Yarn Files Removed	2 (<code>yarn.lock</code> , <code>.yarnrc.yml</code>)
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_HANDOVER.md (updated: package manager section)
└── nextjs_space/
    ├── .gitignore (updated: removed yarn entries)
    ├── README.md (updated: installation instructions)
    ├── DEVELOPER_HANDOVER.md (updated: complete npm migration)
    └── package-lock.json (created: 682KB, 1,333 packages)
    └── public/
        └── DEVELOPER_HANDOVER.md (synced from parent)
```

Removed Files

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

Learning Resources

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>)

Migration Validation

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.

Support & Questions

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

Migration Completed By: DeepAgent (Abacus.AI)

Review Status: Ready for team review and testing

Deployment Status: Ready for deployment with npm
