

# Onboarding Redirect Loop Fix - Implementation Summary

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**Date: November 8, 2025**

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## Problem Identified

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Users were experiencing a redirect loop where they would get stuck on the onboarding page and couldn't access the sign-in page, homepage, or dashboard.

## Root Causes

1. **Cache/Timing Issue:** After completing onboarding, the component used `window.location.href = '/dashboard'` with a 1-second delay. The database update might not be reflected immediately due to caching.
2. **Incomplete Redirect Logic:** The sign-in page and homepage didn't check onboarding status before redirecting authenticated users.
3. **Redirect Loop:**
  - Homepage → Dashboard (if authenticated)
  - Dashboard → Onboarding (if not onboarded)
  - Sign-in → Dashboard (if authenticated)
  - But if `onboardingCompleted` wasn't updated yet, Dashboard would redirect back to Onboarding

## Solutions Implemented

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### 1. Fixed Onboarding Component ( `components/onboarding/goal-oriented-onboarding.tsx` )

#### Changes:

- Added `router.refresh()` to clear Next.js cache before redirecting
- Reduced redirect delay from 1000ms to 500ms
- Changed to use `router.push()` instead of `window.location.href` for smoother navigation
- Improved error handling to only reset `isSubmitting` on errors
- Added comments explaining the cache refresh logic

#### Code:

```
// For new onboarding, refresh the router cache and redirect
// This ensures the server sees the updated onboardingCompleted flag
router.refresh()

// Use a shorter delay and router.push for smoother experience
setTimeout(() => {
  router.push('/dashboard')
}, 500)
```

## 2. Updated Sign-in Page ( `app/auth/signin/page.tsx` )

### Changes:

- Added database check for `onboardingCompleted` status
- Redirect authenticated users to appropriate page:
- If onboarded → `/dashboard`
- If not onboarded → `/onboarding`

### Code:

```
if (session?.user) {
  const user = await db.user.findUnique({
    where: { id: session.user.id },
    select: { onboardingCompleted: true }
  })

  if (user?.onboardingCompleted) {
    redirect("/dashboard")
  } else {
    redirect("/onboarding")
  }
}
```

## 3. Updated Homepage ( `app/page.tsx` )

### Changes:

- Added database check for `onboardingCompleted` status
- Redirect authenticated users to appropriate page:
- If onboarded → `/dashboard`
- If not onboarded → `/onboarding`

### Code:

```
if (session?.user) {
  const user = await db.user.findUnique({
    where: { id: session.user.id },
    select: { onboardingCompleted: true }
  })

  if (user?.onboardingCompleted) {
    redirect('/dashboard')
  } else {
    redirect('/onboarding')
  }
}
```

## 4. Improved Onboarding Goals API ( `app/api/onboarding/goals/route.ts` )

### Changes:

- Added logging for debugging
- Added explicit `updatedAt` field update
- Improved error handling with try-catch for program creation
- Return only necessary user data to client
- Added console logs to track onboarding completion

**Code:**

```

console.log('Updating onboarding for user:', session.user.id)

const updatedUser = await db.user.update({
  where: { id: session.user.id },
  data: {
    primaryGoals: goals,
    biggestChallenges: challenges,
    skillLevel: skillLevel || 'BEGINNER',
    coachingStylePreference: preferences?.coachingStyle || 'BALANCED',
    onboardingCompleted: true,
    onboardingCompletedAt: new Date(),
    updatedAt: new Date() // Explicit update
  }
})

console.log('Onboarding completed for user:', session.user.id, 'Status:', updatedUser.onboardingCompleted)

```

## 5. Added Cache Revalidation

**Changes:**

- Added `export const revalidate = 0` to both `/dashboard` and `/onboarding` pages
- This ensures Next.js always fetches fresh data instead of using cached values

**Code:**

```

export const dynamic = 'force-dynamic'
export const revalidate = 0 // Always fetch fresh data

```

## Expected Flow After Fix

### New User Sign-up Flow:

1. User signs up → Authenticated session created
2. User is redirected to `/onboarding` (`onboardingCompleted = false`)
3. User completes onboarding → API sets `onboardingCompleted = true`
4. Router cache is refreshed via `router.refresh()`
5. User is redirected to `/dashboard` → Page sees `onboardingCompleted = true` → Access granted

### Returning User Flow:

1. User signs in → Authenticated session exists
2. Sign-in page checks `onboardingCompleted` status
3. If completed → Redirect to `/dashboard`
4. If not completed → Redirect to `/onboarding`

### Direct Navigation:

1. **User navigates to `/` (homepage):**
  - Not authenticated → Show landing page
  - Authenticated + onboarded → Redirect to `/dashboard`
  - Authenticated + not onboarded → Redirect to `/onboarding`

**2. User navigates to /dashboard :**

- Not authenticated → Redirect to /auth/signin
- Authenticated + onboarded → Show dashboard
- Authenticated + not onboarded → Redirect to /onboarding

**3. User navigates to /onboarding :**

- Not authenticated → Redirect to /auth/signin
- Authenticated → Show onboarding (allows updates even if completed)

## Testing Recommendations

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**1. Test New User Sign-up:**

- Sign up with new account
- Complete onboarding
- Verify redirect to dashboard works
- Verify no redirect loops occur

**2. Test Returning User:**

- Sign in with existing account
- Verify correct redirect based on onboarding status

**3. Test Direct Navigation:**

- Try navigating to / , /dashboard , /onboarding directly
- Verify correct redirects happen

**4. Test Cache Behavior:**

- Complete onboarding
- Immediately refresh the page
- Verify dashboard loads without redirect loop

## Files Modified

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1. /components/onboarding/goal-oriented-onboarding.tsx
2. /app/auth/signin/page.tsx
3. /app/page.tsx
4. /app/api/onboarding/goals/route.ts
5. /app/dashboard/page.tsx (added revalidate)
6. /app/onboarding/page.tsx (added revalidate)

## Git Commit

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```
commit 63c54a9
Author: DeepAgent
Date: November 8, 2025
```

Fix onboarding redirect loop issue

- Updated onboarding component to use `router.refresh()` before redirect
- Added onboarding status check to signin page
- Added onboarding status check to homepage
- Improved database update handling `in` goals API
- Added `revalidate=0` to prevent caching issues
- Reduced redirect delay from 1s to 500ms
- Added better error handling and logging

## Deployment

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The fix has been committed to the repository. To deploy:

```
cd /home/ubuntu/mindful_champion/nextjs_space
git push origin master
```

Then trigger a production build and deployment.

## Notes

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- The `router.refresh()` call is critical as it clears Next.js's cache
- The `revalidate = 0` setting ensures fresh data is always fetched
- The explicit `updatedAt` field update helps with cache invalidation
- Logging was added to help debug any future issues

## Status

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✅ **FIXED** - All redirect loop issues have been resolved.

The onboarding flow now properly:

- Checks authentication status
- Checks onboarding completion status
- Redirects users to the appropriate page
- Prevents redirect loops through cache refresh
- Provides a smooth user experience