

i18n VERIFICATION PLAN - Callastar

Date: 2025-12-29

Branch: feature/i18n-phase1

Commit: 2c734d4



Status:  FIXES APPLIED - READY FOR VERIFICATION

WHAT WAS FIXED

3 Critical Changes Applied:

1. **middleware.ts** (Line 9): `localePrefix: 'as-needed'` → `'always'`
2. **navigation.ts** (Line 4): `localePrefix: 'as-needed'` → `'always'`
3. **navbar.tsx** (Line 80): Removed `router.refresh()` call

Bugs Fixed:

-  **Bug #1:** Redirect to `/en` instead of `/` or `/fr` (default locale)
 -  **Bug #2:** Double locale `/en/en` instead of `/en` when switching language
-

VERIFICATION STEPS

Prerequisites:

```
cd /home/ubuntu/github_repos/callastar
npm run dev
```

Test Suite:

Test 1: Default Locale on Launch

Steps:

1. Clear browser cookies for localhost
2. Navigate to `http://localhost:3000/`
3. Observe the URL redirect

Expected Result:


- URL should redirect to `http://localhost:3000/fr/`
- Page content should be in French
- Language selector should show "FR"

Bug #1 Status: FIXED if URL shows `/fr/` instead of `/en`

Test 2: Language Switch from French to English

Steps:

1. Start on `http://localhost:3000/fr/`

2. Click the language selector dropdown
3. Click “ English”
4. Observe the URL change


Expected Result:

- URL should change to `http://localhost:3000/en/`
- NO double locale like `/en/en` or `/fr/en`
- Page content should change to English
- Language selector should show “EN”

Bug #2 Status: FIXED if URL is clean `/en/` without duplication

✓ Test 3: Language Switch from English to French

Steps:

1. Start on `http://localhost:3000/en/`
2. Click the language selector dropdown
3. Click “ Français”
4. Observe the URL change

Expected Result:

- URL should change to `http://localhost:3000/fr/`
 - NO double locale like `/fr/fr` or `/en/fr`
 - Page content should change to French
 - Language selector should show “FR”
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✓ Test 4: Deep Link to Creators Page

Steps:

1. Navigate directly to `http://localhost:3000/fr/creators`
2. Verify page loads in French
3. Switch to English
4. Verify URL changes to `http://localhost:3000/en/creators`
5. Switch back to French
6. Verify URL changes back to `http://localhost:3000/fr/creators`

Expected Result:

- All navigation maintains correct locale prefix
 - No URL errors or 404s
 - Language switches correctly on deep links
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✓ Test 5: Browser Language Detection

Steps:

1. Set browser language to English (en-US) in browser settings
2. Clear browser cookies for localhost
3. Navigate to `http://localhost:3000/`
4. Observe the URL redirect

Expected Result:

- URL should STILL redirect to `http://localhost:3000/fr/` (default locale)
- French should be shown (not English)
- Browser language preference should NOT override default locale

Note: This confirms the fix for Bug #1 - browser detection no longer overrides default

✓ Test 6: Authentication Flow with Locales

Steps:

1. Navigate to `http://localhost:3000/fr/auth/login`
2. Verify login page is in French
3. Navigate to `http://localhost:3000/en/auth/login`
4. Verify login page is in English
5. Login from French page
6. Verify redirect maintains `/fr/` prefix in dashboard URL

Expected Result:

- Login pages load in correct language
 - Post-login redirects maintain locale
 - No locale prefix lost during auth flow
-

✓ Test 7: Protected Routes with Locales

Steps:

1. Clear auth cookies (logout)
2. Try to access `http://localhost:3000/fr/dashboard/user`
3. Verify redirect to `/fr/auth/login`
4. Try to access `http://localhost:3000/en/dashboard/creator`
5. Verify redirect to `/en/auth/login`

Expected Result:

- Protected route redirects maintain locale
 - Login page shows in correct language
 - No locale prefix errors
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VERIFICATION CHECKLIST

Use this checklist to confirm all tests pass:

- ☐ Test 1: Default locale redirects to `/fr/` ✓
- ☐ Test 2: French → English produces `/en/` (not `/en/en`) ✓
- ☐ Test 3: English → French produces `/fr/` (not `/fr/fr`) ✓
- ☐ Test 4: Deep links maintain correct locale ✓
- ☐ Test 5: Browser language doesn't override default ✓
- ☐ Test 6: Auth flow maintains locale ✓
- ☐ Test 7: Protected routes maintain locale ✓



IF BUGS STILL EXIST

Debug Steps:

1. Check console for errors:

- Open browser DevTools (F12)
- Look for any next-intl or navigation errors
- Check Network tab for redirect chains

2. Verify configuration:

```
bash
cd /home/ubuntu/github_repos/callastar
grep -n "localePrefix" middleware.ts navigation.ts
grep -n "router.refresh" components/navbar.tsx
- Both should show localePrefix: 'always'
- navbar.tsx should NOT have router.refresh() after router.replace()
```

3. Clear cache and rebuild:

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

4. Check git status:

```
bash
git status
git log --oneline -1
- Should show commit 2c734d4 with "fix(i18n): Fix persistent locale bugs"
```



EXPECTED BEHAVIOR SUMMARY

URL Structure:

Navigation	Before Fix	After Fix
Root URL	/ → /en ❌	/ → /fr/ ✅
French home	/	/fr/
English home	/en	/en/
French creators	/creators	/fr/creators
English creators	/en/creators	/en/creators
Switch FR→EN	/en/en ❌	/en/ ✅
Switch EN→FR	Sometimes broken ❌	/fr/ ✅

Key Changes:

- ☒ All URLs now have explicit locale prefix
- ☒ Default locale (French) shows as `/fr/` not `/`
- ☒ No more double locales during language switch
- ☒ No more unwanted redirects to English
- ☒ Consistent pathname handling across all pages



NEXT STEPS AFTER VERIFICATION

If All Tests Pass:

1. ☒ Push changes to GitHub:


```
bash
cd /home/ubuntu/github_repos/callastar
git push origin feature/i18n-phase1
```
2. ☒ Create Pull Request for review
3. ☒ Update project documentation about URL structure change
4. ☒ Consider adding automated tests for i18n navigation

If Tests Fail:

1. ☒ Document which specific test(s) failed
2. ☒ Provide exact error messages or unexpected behavior
3. ☒ Share browser console logs
4. ☒ Report back for further diagnostic



TECHNICAL BACKGROUND

Why `localePrefix: 'always'` Fixes Both Bugs:

Bug #1 (Redirect to /en):

- **Root Cause:** With `'as-needed'`, default locale (fr) has no prefix
- **Problem:** Browser Accept-Language header detects English
- **Result:** Redirects to `/en` instead of staying on `/`
- **Fix:** With `'always'`, default locale has explicit `/fr/` prefix
- **Outcome:** Root redirects to `/fr/`, no ambiguity

Bug #2 (Double locale /en/en):

- **Root Cause:** Inconsistent pathname handling with `'as-needed'`
- **Problem:** Sometimes pathname includes locale, sometimes doesn't
- **Result:** `router.replace()` adds locale on top of existing locale
- **Fix:** With `'always'`, pathname behavior is predictable
- **Outcome:** `usePathname()` always returns path without locale

Why Removing `router.refresh()` Helps:

- `router.replace()` is asynchronous - takes time to complete

- `router.refresh()` immediately re-renders components
- Middleware processes request during navigation transition
- Can cause double-processing or incorrect state
- **Fix:** Let `router.replace()` complete naturally

References:

- [next-intl: localePrefix](https://next-intl-docs.vercel.app/docs/routing#locale-prefix) (https://next-intl-docs.vercel.app/docs/routing#locale-prefix)
- [next-intl: Navigation APIs](https://next-intl-docs.vercel.app/docs/routing/navigation) (https://next-intl-docs.vercel.app/docs/routing/navigation)
- [Best Practices for Multilingual Next.js Apps](https://next-intl-docs.vercel.app/docs/routing/middleware) (https://next-intl-docs.vercel.app/docs/routing/middleware)

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Status:  READY FOR VERIFICATION

Confidence: HIGH (based on root cause analysis and next-intl documentation)