

# **Visual Comparison: Before and After Fix**

Finanzas SD - Architecture, Flows & SOPs

Arquitectura, Flujos y Procedimientos

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## 1 Visual Comparison: Before and After Fix

### 1.1 The Problem

When ungrouped Cognito users tried to access the application after PR #577, they encountered a critical error.

### 1.2 Before Fix

#### 1.2.1 Application State:

- **Error Screen:** Red error banner with “Application Error”
- **Error Message:**

Something unexpected happened while running the application.  
The error details are shown below. Contact support if this issue persists.

Error Details:  
DEFAULT\_ROLE is not defined

#### 1.2.2 Browser Console:

```
[ ] Uncaught ReferenceError: DEFAULT_ROLE is not defined at AuthProvider.tsx:210  
at AuthProvider.tsx:237 at AuthProvider.tsx:307 ... (multiple stack traces)
```

#### 1.2.3 Impact:

-  Application completely unusable
-  No way to proceed or recover
-  Generic error message not helpful to users
-  No guidance on what to do next

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### 1.3 After Fix

#### 1.3.1 Application State:

- **NoAccess Screen:** Clean, professional “no permissions” screen
- **Message:**

Sin permisos asignados  
(No permissions assigned)

No tienes permisos asignados para acceder a esta aplicación.

Tu cuenta está autenticada pero no tiene grupos de Cognito asociados que otorguen acceso a los módulos de esta aplicación.

Para obtener acceso, contacta al administrador del sistema.

[Cerrar sesión]

### 1.3.2 Browser Console:

```
[ ] [Router] No role assigned - user has no access { user: {...}, availableRoles: [], groups: [] }
```

### 1.3.3 Impact:

- ☐ Application handles the situation gracefully
- ☐ User sees clear, actionable message in Spanish
- ☐ User can sign out and try different account
- ☐ Administrators can identify the issue from logs
- ☐ Security maintained (no implicit access granted)

## 1.4 Code Changes That Made This Possible

### 1.4.1 Key Changes in AuthProvider.tsx:

#### 1. Before (Line 210):

```
[ ] const effectiveRole = currentRole || DEFAULT_ROLE; // DEFAULT_ROLE undefined
```

#### After (Line 210-219):

```
[ ] if (!currentRole) { setRouteConfigMissing(true); console.warn("[Router] No role assigned - user has no access", {...}); return; // Safe early return }
```

**2. Before (Line 307):**

```
[ ] setCurrentRole(DEFAULT_ROLE); // □ Sets undefined
```

**After (Line 328):**

```
[ ] setCurrentRole(null); // □ Properly clears role
```

**3. Before (Line 495):**

```
[ ] return canAccessRoute(route, currentRole || DEFAULT_ROLE); // □ Passes un-  
defined
```

**After (Line 516-522):**

```
[ ] if (!currentRole) { return false; // □ Safe null check } return canAccess-  
Route(route, currentRole);
```

**1.5 User Experience Comparison**

Aspect	Before Fix	After Fix
Error Handling	□ Application crash	□ Graceful degradation
User Message	□ Technical error	□ Clear Spanish message
User Action	□ Contact support	□ Sign out or contact admin
Security	△ Undefined behavior	□ No access granted
Logging	□ Stack traces only	□ Clear warning logs
Recovery	□ Requires page refresh	□ Clean sign out

**1.6 How to Test****1.6.1 Setup:**

1. Create a Cognito user account
2. Do NOT assign any groups to the user
3. Attempt to login to the application

### 1.6.2 Expected Results After Fix:

1. ☐ Login succeeds (Cognito authentication works)
2. ☐ User sees NoAccess screen (not error)
3. ☐ Message explains the situation
4. ☐ Sign out button works correctly
5. ☐ Console shows warning (not error)

### 1.6.3 Verification:

- Check browser console for the warning message
  - Verify no error stack traces appear
  - Confirm “Cerrar sesión” button redirects to login
  - Test with user who HAS groups (should work normally)
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## 1.7 Security Notes

This fix maintains the security improvements from PR #577:

- **No implicit access:** Users without recognized groups get NO access
- **No default role:** No EXEC\_RO or other role assigned by default
- **Clear audit trail:** Console warnings provide visibility
- **Graceful degradation:** Security maintained without breaking UX

The key difference is: - **Before PR #577:** Ungrouped users got EXEC\_RO (read-only access) - **After PR #577:** Ungrouped users get no access, but crashed - **After this fix:** Ungrouped users get no access, with clear message