

# **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 undefined
```

## After (Line 516-522):

```
[] if (!currentRole) { return false; // Safe null check } return canAccessRoute(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