Finanzas K Navigation ReferenceError

Finanzas SD – Architecture, Flows & SOPs

Arquitectura, Flujos y Procedimientos

December 8, 2025

1 Finanzas "K" Navigation ReferenceError

1.1 What happened

In production bundles, the Finanzas navigation entry points failed with a runtime error:

```
ReferenceError: Cannot access 'k' before initialization
```

The stack trace pointed at the compiled navigation bundle. The minifier reduced one of our derived navigation flags to k and emitted code that referenced it before initialization, triggering the temporal dead zone (TDZ) error.

1.2 Root cause

Within `src/components/Navigation.tsx`, `isFinanzasNavContext` was declared before `isPmoContext` even though it referenced that value. While this order is technically valid in source form, the production build's minification step reordered variables, causing the generated k binding (`isPmoContext`) to be read before it was initialized. That produced the TDZ ReferenceError during runtime navigation checks.

1.3 Fix applied

We now declare `isPmoContext` first and clearly document the dependency ordering so the bundler cannot emit pre-initialization reads. This prevents the TDZ condition that surfaced as the k ReferenceError.

1.4 How to prevent regressions

- Keep dependent derived flags declared after their prerequisites in `Navigation.tsx`.
- When touching navigation context calculations, preserve the documented ordering or consolidate them inside a single useMemo to avoid minifier reordering.
- If a similar TDZ error appears again in production, inspect derived flags in `Navigation.tsx` to ensure none are referenced before declaration after build-time transformations.