

Screen Management System

built for
AiFi

// the problem

Updating a single store screen meant filing a ticket and waiting for an engineer, across hundreds of cashierless stores.

// what we shipped

A browser console where retailers manage their own screens: push content to hundreds of stores at once, live, in seconds.

retailers build their own groups, content cascades down

set once at the top, children inherit, any group can override



● inheritance + override **Tree-structured config**

Settings live in a hierarchy and cascade down. Set once near the root; any node overrides it locally, without touching parents or siblings.

● eventual consistency **Offline-first sync**

Each screen renders from a local copy, even with no network. Edits queue and reconcile in the background. No blank screens, no data loss.



Read the full thesis

scan → apd.uw.edu.pl/diplomas/251929

team

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