

Frontend CI Gate v1 (MC #106089)

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Source spec: `~/system/docs/published/alai-frontend-engineering-spec-v1-106089.md`

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Principle: `tsc` is not a build. Browser-visible changes require browser-visible evidence.

Scope: Gates below apply to the code a PR/promote actually exercises. A pre-existing gap tracked in the source spec's Appendix B (Known Deviations) does not block an unrelated PR — see that appendix and the source spec §9 for the full scope rule.

Minimum PR gate

Every product may use its own script names, but the pipeline must cover these classes:

```
# dependency discipline
npm ci || pnpm install --frozen-lockfile

# static gates
npm run typecheck
npm run lint
npm run test:unit

# framework build gate – mandatory for Next.js/App Router
npm run build

# browser smoke on built artifact or deployed preview
npm run test:e2e:smoke
```

Required stage/promote gate

```
# public URL verification
curl -sI "$PUBLIC_WEB_URL"

# Build-identity check – use whichever mechanism the product implements (source spec §2.1):
# (a) structured JSON endpoint (e.g. build-meta.json), or
# (b) response header comparison (e.g. `curl -sI "$PUBLIC_WEB_URL" | grep -i x-build-id`).
# Bilko currently uses (b); do not assume build-meta.json exists for every product.
curl -s "$PUBLIC_WEB_URL/build-meta.json" # only if product implements mechanism (a)

npm run test:e2e:auth-critical
npm run test:e2e:core-flows
npm run test:e2e:headers
```

Gate semantics

Gate	Failure blocks merge?	Failure blocks promote?	Notes
Frozen lockfile install	Yes	Yes	No floating framework behavior in CI/deploy.
Typecheck	Yes	Yes	Static TS only. Not sufficient by itself.
Lint	Yes	Yes	Include App Router export, no mock production imports, i18n rules where applicable.
Unit/component tests	Yes	Yes	State machines, typed vendor wrappers, retry behavior.
<code>next build</code> / production build	Yes	Yes	Catches framework-only build failures.
Playwright smoke	Yes	Yes	Must click/assert at least navigation and one core action.
Auth critical E2E	Auth products: Yes	Auth products: Yes	Public/custom domain, hard-navigation protected route, logout.
Header/cache/CSP	No for non-deploy PR unless changed	Yes	Public URL checks for no-store HTML, immutable chunks, no-store build metadata, security headers.
Console/network gate	Yes for affected pages	Yes	Unexpected app console errors or 4xx/5xx fail.

Required evidence files

For every user-facing frontend task, save under the task evidence directory:

- command output for install/typecheck/lint/unit/build,
- Playwright report, trace, or screenshot,
- console error summary,
- network failure summary,
- public URL and build/deployment ID when deployed.

Revision #2

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