

Flutter Overlay — Messmakers Bottom Chrome

Architecture skeleton · 2026-10-02

Executive framing

messmakers_overlay is a self-contained Flutter package + demo for the Messmakers / ThinkPulse bottom overlay: gray AI sound/volume bar above a white social icon band. Contract is z-order critical. This is a UI scaffold/demo package — not JobNet and not a full social client.

System thesis

Treat the overlay as a multimodal chrome contract: haptic-capable AI volume controls stacked above social actions with hit-test priority. Prefer Column; if Stack, AI widget last. Host apps inject volume state and social icon widgets — package stays presentation-focused.

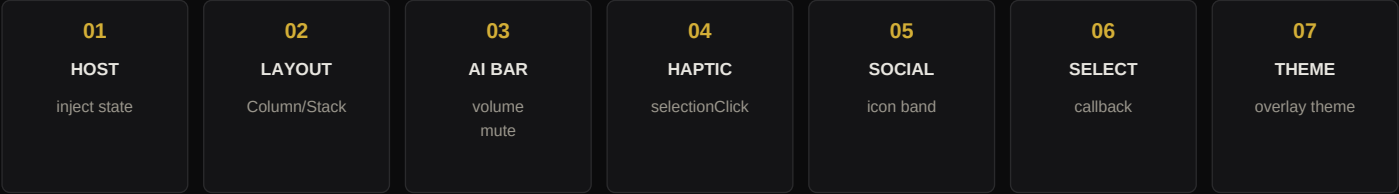
CONTRACT AI bar ABOVE social band Column preferred Stack: AI last (z-order) Hit-test priority on AI Material elevation hint Do not break contract	API SURFACE volume / onVolumeChanged onMuteToggle / isMuted socialIcons: List<Widget> Optional onSocialSelected aiLabel · compact · blur enableHaptics default true	PLATFORM Flutter multi-platform dirs lib/messmakers_*.dart Widget tests present Lab 03-flutter-overlay twin Not Job Net implementation Status: demo/scaffold
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Non-goals (explicit)

- Not JobNet / Drop Net — explicitly out of package scope.
- Not a full Messmakers social client or audio engine.
- Not production store listing — package/demo status.

Schematic A — Control loop

host state → overlay render → haptic/mute → social select



Presentation package · host owns audio/social backends · contract tests guard z-order

ML / systems vocabulary (as designed)

Hit-test ranking	Paint/z-order determines which chrome receives gestures.
Haptic feedback	selectionClick on mute as low-latency operator cue.
Composable icons	Host-supplied widgets; optional index callback.
Theme tokens	MessmakersOverlayTheme for density/blur variants.
Latency budgets	Gesture→haptic within frame; no network in package.
Evals	Widget tests for structure; manual z-order regression on devices.

Schematic B — Runtime topology

Flutter package · android/ios/web/desktop dirs · Lab twin

PACKAGE

pubspec.yaml library
lib/messmakers_overlay.dart
bottom_overlay widgets
test/*_test.dart
CHANGELOG + README
Status: scaffold/demo

DEMO APP

lib/main.dart demo
Multi-platform runners
ThinkPulse naming in docs
No Job Net code path
Archive tar.gz available
Baking host integration

LAB MIRROR

03-flutter-overlay/
Contract note markdown
Same z-order rules
Portfolio: brief card → PDF
No fake live app claim
beyond package demo

Integration honesty

Ship the package as a reusable chrome contract with tests. Portfolio should link the architecture PDF; do not invent a production Messmakers app URL.

INTEGRATION CADENCE (DESIGNED)

Add dependency → mount MessmakersBottomOverlay → wire volume + social icons → device check z-order
Run flutter test on overlay structure
Host audio engine remains outside this package

Eval plan · risks · portfolio note

[How to read this artifact](#)

Evaluation axes (when live / under demo)

- Z-order contract — AI bar receives taps when overlapping risks exist.
- API stability — required params unchanged; optionals default safely.
- Haptics — mute toggles fire when enableHaptics true.
- Theme compact mode — heights shrink without clipping hit targets.

Primary risks

- Stack misuse painting social above AI (known historical bug class).
- Hosts assuming package includes JobNet.
- Blur/haptics platform variance.

PORTFOLIO READING GUIDE

Skeleton for Flutter Messmakers overlay: contract-first bottom chrome, demo/scaffold status.

Pair with messmakers_overlay README + Lab 03 contract note. No demo video in this batch.

We're baking host integrations — package is real; full app is not claimed.