

Master 360+ Product Factory Checklist

Granular Verification & Quality Audit Matrix Across 10 Layers & 16 Phases (Rule 63)

Total Tasks: 265 **Repo:** <https://github.com/sh15aa/Appreusable>

■ Layer 1: Idea / Research

Phase 1: Idea Discovery & Feasibility (20 tasks)

ID	Task Description	Status
IDEA_001	Define core problem statement in 1 sentence	[] Pending
IDEA_002	Identify specific primary user persona and anti-persona	[] Pending
IDEA_003	Determine initial hypothesis on willingness to pay	[] Pending
IDEA_004	Run automated viability scoring algorithm (Mod 01)	[] Pending
IDEA_005	Check trademark, App Store naming, and domain availability	[] Pending
IDEA_006	Validate idea leverages mobile-native sensors, haptics, or camera	[] Pending
IDEA_007	Evaluate offline-utility potential (offline-first vs cloud-only)	[] Pending
IDEA_008	Document anti-goals (what the app will explicitly NOT do)	[] Pending
IDEA_009	Assess technical complexity rating (1-10) and proof of concept needs	[] Pending
IDEA_010	Define MVP feature cutoff threshold	[] Pending
IDEA_011	Establish unit economics & gross margin targets	[] Pending
IDEA_012	Determine if app requires isolated backend or is local-only (Mod 11/44)	[] Pending
IDEA_013	Identify potential viral sharing hook (Mod 36)	[] Pending
IDEA_014	Define 3 primary success KPIs (D1 retention, CAC, LTV)	[] Pending
IDEA_015	Perform initial STRIDE threat modeling on concept (Mod 64)	[] Pending
IDEA_016	Confirm compliance with Apple and Google developer guidelines (Mod 125)	[] Pending
IDEA_017	Verify idea does not violate App Store Guideline 4.3 (Spam / Duplicate Apps)	[] Pending
IDEA_018	Assess regulatory constraints (HIPAA, GDPR, COPPA, FERPA) (Mod 124)	[] Pending
IDEA_019	Define user privacy boundary and data minimization policy (Mod 120)	[] Pending
IDEA_020	Executive sign-off on Idea Viability and Gate 1 approval	[] Pending

Phase 2: Market, Competitor & Review Mining (15 tasks)

ID	Task Description	Status
COMP_001	Identify top 5 direct App Store competitors	[] Pending
COMP_002	Identify top 5 direct Google Play competitors	[] Pending
COMP_003	Mine 1-star & 2-star reviews of competitors for user pain points (Mod 52)	[] Pending
COMP_004	Analyze competitor pricing tiers & trial durations	[] Pending
COMP_005	Map competitor feature matrix against MVP roadmap	[] Pending
COMP_006	Analyze competitor keyword rankings & ASO volume (Mod 50)	[] Pending
COMP_007	Evaluate competitor download estimates (SensorTower/Data.ai)	[] Pending
COMP_008	Identify competitor UI/UX weaknesses & accessibility flaws	[] Pending
COMP_009	Assess competitor update frequency and support responsiveness	[] Pending
COMP_010	Formulate the 10x value proposition differentiator	[] Pending
COMP_011	Identify keyword gaps in competitor App Store metadata	[] Pending
COMP_012	Catalog competitor permissions requested and find minimization opportunity	[] Pending
COMP_013	Evaluate competitor offline capabilities	[] Pending
COMP_014	Analyze competitor paywall presentation and trial conversion hooks	[] Pending
COMP_015	Synthesize competitor intelligence brief into PRD (Mod 62)	[] Pending

■ Layer 2: Product Management

Phase 3: PRD & Product Management (20 tasks)

ID	Task Description	Status
PRD_001	Create standardized PRD document (Mod 62)	[] Pending
PRD_002	Draft user stories with Gherkin acceptance criteria (Given/When/Then)	[] Pending
PRD_003	Define edge cases (offline, low memory, background kill, network switch)	[] Pending
PRD_004	Specify localization language targets (Tier 1: en, es, de, fr, ja)	[] Pending
PRD_005	Determine data retention & privacy compliance policy (Mod 120, 122)	[] Pending
PRD_006	Define guest mode vs authenticated mode capabilities	[] Pending
PRD_007	Establish subscription paywall trigger points and entitlements (Mod 29)	[] Pending
PRD_008	Document push notification triggers and categories (Mod 23)	[] Pending
PRD_009	Define remote config keys & default values (Mod 32)	[] Pending
PRD_010	Define feature flags and rollout percentage targets (Mod 33)	[] Pending
PRD_011	Establish API contract in OpenAPI 3.0 format (Mod 62)	[] Pending
PRD_012	Establish error taxonomy and user-facing copy guidelines (Mod 14, 99)	[] Pending
PRD_013	Define telemetry events and properties without PII (Mod 24)	[] Pending
PRD_014	Establish performance budget (startup < 1.5s, frame drops < 1%) (Mod 26)	[] Pending
PRD_015	Define Account Deletion UX and confirmation flows (Mod 123)	[] Pending
PRD_016	Define child safety and age gate requirements if applicable (Mod 124)	[] Pending
PRD_017	Establish third-party vendor risk assessment (Mod 126)	[] Pending
PRD_018	Establish data classification for all entities (Mod 121)	[] Pending
PRD_019	Define backup RPO/RTO targets (Mod 78)	[] Pending
PRD_020	PRD gate approval sign-off by Product Agent and Founder	[] Pending

Phase 4: UX & Wireframing (15 tasks)

ID	Task Description	Status
UX_001	Map end-to-end user navigation flow and state transitions	[] Pending
UX_002	Design onboarding progression (Value -> Problem -> Perms -> Action) (Mod 37)	[] Pending
UX_003	Design empty states for zero-data screens	[] Pending
UX_004	Design loading skeleton loaders for async screens	[] Pending
UX_005	Design error recovery dialogs and offline status banners (Mod 14)	[] Pending
UX_006	Map permission priming rationale dialogs (Mod 22)	[] Pending
UX_007	Design paywall presentation and annual vs monthly comparison (Mod 29)	[] Pending
UX_008	Design settings and account deletion flow (Apple guideline 5.1.1) (Mod 123)	[] Pending
UX_009	Verify touch targets meet 48x48dp minimum (Mod 19)	[] Pending
UX_010	Design deep-link routing landing states (Mod 34)	[] Pending
UX_011	Design referral invitation share sheet and cards (Mod 35, 36)	[] Pending
UX_012	Design biometric login prompt and fallback PIN screen (Mod 21)	[] Pending
UX_013	Design dark mode and AMOLED contrast variations (Mod 20)	[] Pending
UX_014	Design offline outbox sync indicator (Mod 12)	[] Pending
UX_015	UX flow gate approval sign-off	[] Pending

■ Layer 3: Design System

Phase 5: UI & Design System Tokens (15 tasks)

ID	Task Description	Status
UI_001	Define app color palette (Primary, Secondary, Surface, Error)	[] Pending
UI_002	Configure dark mode & AMOLED color variations (Mod 20)	[] Pending
UI_003	Set typography scale using AppSpacing tokens (Mod 17)	[] Pending
UI_004	Create custom high-resolution app icon (1024x1024 PNG)	[] Pending
UI_005	Generate splash screen assets for Android & iOS	[] Pending
UI_006	Implement UI components using Mod 16 design system	[] Pending
UI_007	Verify WCAG 2.1 AAA contrast ratios across all states (Mod 19)	[] Pending
UI_008	Test layout responsiveness across compact, foldable, and tablet (Mod 18)	[] Pending
UI_009	Design haptic feedback triggers (Mod 21)	[] Pending
UI_010	Implement shimmer skeleton loading animations	[] Pending
UI_011	Ensure dynamic font scaling support (iOS Dynamic Type / Android font scale) (Mod 19)	[] Pending
UI_012	Implement custom error snackbars and toast notifications	[] Pending
UI_013	Configure adaptive bottom navigation bars for Android and iOS	[] Pending
UI_014	Test UI in high contrast accessibility mode	[] Pending
UI_015	UI component library gate approval sign-off	[] Pending

■ Layer 4: Mobile Development

Phase 6: Core Mobile Architecture (15 tasks)

ID	Task Description	Status
ARCH_001	Enforce Clean Architecture separation: Presentation / Domain / Data (Mod 04)	[] Pending
ARCH_002	Configure Service Locator dependency injection (Mod 03)	[] Pending
ARCH_003	Enforce strict typing in analysis_options.yaml (Mod 02)	[] Pending
ARCH_004	Configure multi-environment configs (Dev/Staging/Prod) (Mod 05)	[] Pending
ARCH_005	Configure encrypted key-value storage backed by hardware Keystore (Mod 11, 90)	[] Pending
ARCH_006	Configure Outbox pattern for offline mutations (Mod 12)	[] Pending
ARCH_007	Implement API client with SSL certificate pinning (Mod 13, 93)	[] Pending
ARCH_008	Implement user-safe error sanitizer (Mod 14, 99)	[] Pending
ARCH_009	Implement standardized state machine (Mod 15)	[] Pending
ARCH_010	Enforce boundary rules: zero cross-app code leakage (Mod 59, 61)	[] Pending
ARCH_011	Implement AppLifecycleListener state guardian (Mod 38)	[] Pending
ARCH_012	Implement secure clipboard with 60s auto-clear (Mod 21)	[] Pending
ARCH_013	Configure performance watchdog for startup & frame drops (Mod 26)	[] Pending
ARCH_014	Configure crash reporting with scrubbed PII breadcrumbs (Mod 25)	[] Pending
ARCH_015	Core mobile architecture gate approval sign-off	[] Pending

Phase 8: Mobile Flutter Implementation (20 tasks)

ID	Task Description	Status
MOB_001	Implement onboarding engine flow (Mod 37)	[] Pending
MOB_002	Implement OAuth2 / PKCE authentication flow (Mod 09)	[] Pending
MOB_003	Implement Core Feature 1	[] Pending
MOB_004	Implement Core Feature 2	[] Pending
MOB_005	Implement Core Feature 3	[] Pending
MOB_006	Implement In-App Purchase paywall integration (Mod 29)	[] Pending
MOB_007	Implement Push Notification listeners (Mod 23)	[] Pending
MOB_008	Implement Deep Link router (Mod 34)	[] Pending
MOB_009	Implement Native Share sheet & watermarking (Mod 35)	[] Pending
MOB_010	Implement Viral referral loop (Mod 36)	[] Pending
MOB_011	Implement AI client with SSE streaming (Mod 27)	[] Pending
MOB_012	Implement contextual permission rationale dialogs (Mod 22)	[] Pending
MOB_013	Implement offline data persistence with SQLCipher (Mod 11, 41)	[] Pending
MOB_014	Implement biometric authentication lock (Mod 21)	[] Pending
MOB_015	Implement dynamic theme switcher (Mod 20)	[] Pending
MOB_016	Implement Account Deletion request UI (Mod 123)	[] Pending
MOB_017	Implement force-upgrade and version deprecation modal (Mod 106)	[] Pending
MOB_018	Implement network reachability listener and offline banner (Mod 38)	[] Pending
MOB_019	Implement remote config feature flag consumers (Mod 32, 33)	[] Pending
MOB_020	Mobile Flutter feature completion gate approval sign-off	[] Pending

Phase 9: Android Identity & Hardening (15 tasks)

ID	Task Description	Status
AND_001	Generate dedicated 4096-bit RSA release keystore (Mod 06)	[] Pending
AND_002	Configure secure build.gradle.kts signing configs	[] Pending
AND_003	Configure ProGuard/R8 code shrinking and obfuscation rules (Mod 06)	[] Pending
AND_004	Configure network_security_config.xml blocking cleartext HTTP (Mod 06)	[] Pending
AND_005	Verify Android 14 (API 34) target SDK compliance	[] Pending
AND_006	Configure adaptive app icons & monochrome icons for Android 13+	[] Pending
AND_007	Configure App Links assetlinks.json for deep linking (Mod 06, 34)	[] Pending
AND_008	Verify minimal permissions in AndroidManifest.xml	[] Pending
AND_009	Configure 64-bit native libs compliance (arm64-v8a)	[] Pending
AND_010	Configure Play Integrity API client and backend verification (Mod 91)	[] Pending
AND_011	Configure EncryptedSharedPreferences with Android Keystore (Mod 90)	[] Pending
AND_012	Configure WorkManager for battery-friendly background tasks (Mod 43)	[] Pending
AND_013	Configure FLAG_SECURE on sensitive screens to prevent screenshots (Mod 39)	[] Pending
AND_014	Verify backup rules in AndroidManifest.xml (prevent token leakage in ADB backup)	[] Pending
AND_015	Android identity and platform hardening gate approval sign-off	[] Pending

Phase 10: iOS Identity & ATS Hardening (15 tasks)

ID	Task Description	Status
IOS_001	Create unique Bundle ID in Apple Developer portal	[] Pending
IOS_002	Configure Fastlane Match signing certificates & provisioning profiles (Mod 07)	[] Pending
IOS_003	Configure hardened Info.plist with strict ATS (Mod 07)	[] Pending
IOS_004	Configure Runner.entitlements (Associated Domains, APNs, Keychain) (Mod 07)	[] Pending
IOS_005	Configure Privacy Manifest (NSPrivacyAccessedAPITypes) for iOS 17+ compliance	[] Pending
IOS_006	Configure Universal Links apple-app-site-association (AASA) (Mod 07, 34)	[] Pending
IOS_007	Configure Apple App Attest / DeviceCheck attestation (Mod 91)	[] Pending
IOS_008	Configure Keychain Services access groups (Mod 90)	[] Pending
IOS_009	Verify Dark Mode asset catalog in Assets.xcassets	[] Pending
IOS_010	Verify account deletion endpoint compliance with Apple Guideline 5.1.1 (Mod 123)	[] Pending
IOS_011	Configure BackgroundTasks framework for background fetch (Mod 43)	[] Pending
IOS_012	Verify Sign in with Apple integration if social login is offered	[] Pending
IOS_013	Configure StoreKit 2 transaction observer (Mod 29)	[] Pending
IOS_014	Test dynamic type text scaling on iOS (Mod 19)	[] Pending
IOS_015	iOS identity and platform hardening gate approval sign-off	[] Pending

■ Layer 5: Backend / Database

Phase 7: Isolated Backend & Database Security (20 tasks)

ID	Task Description	Status
BE_001	Scaffold isolated backend repository (Mod 44, 61)	[] Pending
BE_002	Configure isolated database connection (Zero shared DBs) (Mod 61, 76)	[] Pending
BE_003	Implement JWT bearer token validation with JWKS (Mod 09, 89)	[] Pending
BE_004	Implement SlowAPI token-bucket rate limiting (Mod 84)	[] Pending
BE_005	Configure presigned S3/GCS file upload endpoints with magic-byte check (Mod 42, 95)	[] Pending
BE_006	Implement purchase receipt verification webhook with HMAC (Mod 30, 94)	[] Pending
BE_007	Configure automated database migrations with rollback (Mod 41, 151)	[] Pending
BE_008	Implement AI gateway with user tier quotas and cost caps (Mod 28, 128)	[] Pending
BE_009	Configure automated health check /health endpoint (Mod 44)	[] Pending
BE_010	Implement Broken Object Level Authorization (BOLA) guard (Mod 67)	[] Pending
BE_011	Implement Broken Property Level Authorization (BOPLA) filter (Mod 68)	[] Pending
BE_012	Implement Function-Level Authorization guard (Mod 69)	[] Pending
BE_013	Implement SSRF protection firewall on external fetches (Mod 96)	[] Pending
BE_014	Configure database connection pooling & query timeout (Mod 75, 135)	[] Pending
BE_015	Configure automated daily encrypted database backups (Mod 77)	[] Pending
BE_016	Configure Redis cache key tenant isolation (Mod 130)	[] Pending
BE_017	Implement background job idempotency and DLQ (Mod 131, 132)	[] Pending
BE_018	Configure cursor pagination limits (Mod 136)	[] Pending
BE_019	Configure edge security headers (HSTS, nosniff, CSP) (Mod 140)	[] Pending
BE_020	Backend security and tenancy isolation gate approval sign-off	[] Pending

■ Layer 7: Testing / Security

Phase 11: Deep Security, MASVS & OWASP Top 10 (20 tasks)

ID	Task Description	Status
SEC_001	Audit client code and backend for zero hardcoded secrets (Mod 72, 116)	[] Pending
SEC_002	Enable Root & Jailbreak detection signals (Mod 39, 92)	[] Pending
SEC_003	Enable Emulator & Debugger attachment detection (Mod 39, 92)	[] Pending
SEC_004	Verify input sanitization on all fields against SQLi and XSS (Mod 40, 97)	[] Pending
SEC_005	Verify SQLCipher database encryption key is hardware-backed (Mod 11, 41, 90)	[] Pending
SEC_006	Verify SSL certificate pinning against MITM attacks (Mod 13, 93)	[] Pending
SEC_007	Verify Secure Clipboard 60-second auto-clearing (Mod 21)	[] Pending
SEC_008	Verify Privacy consent mode under GDPR/CCPA (Mod 24, 120)	[] Pending
SEC_009	Verify crash reporter scrubs PII before submission (Mod 25, 98)	[] Pending
SEC_010	Verify BOLA object ownership check on every endpoint (Mod 67)	[] Pending
SEC_011	Verify BOPLA mass-assignment filter on every endpoint (Mod 68)	[] Pending
SEC_012	Verify Replay Attack protection with nonces and timestamp drift (Mod 87)	[] Pending
SEC_013	Verify Webhook HMAC signature verification (Mod 94)	[] Pending
SEC_014	Verify SSRF firewall on all outbound requests (Mod 96)	[] Pending
SEC_015	Run OWASP MASVS compliance evaluation (Mod 119)	[] Pending
SEC_016	Run SAST security scanner (Mod 116)	[] Pending
SEC_017	Run DAST API fuzzing tests (Mod 117)	[] Pending
SEC_018	Execute Security Regression test suite (Mod 152)	[] Pending
SEC_019	Evaluate 14-dimension App Security Scorecard (Mod 153)	[] Pending
SEC_020	Security Release Gate approval sign-off (Mod 154)	[] Pending

Phase 12: Automated Testing, Scale & Golden Journey (15 tasks)

ID	Task Description	Status
TEST_001	Run unit test suite with 80%+ coverage (Mod 46)	[] Pending
TEST_002	Run widget test suite across key presentation screens	[] Pending
TEST_003	Execute Golden User Journey automated test (Mod 47)	[] Pending
TEST_004	Execute Device Test Matrix on 12 devices (Mod 48)	[] Pending
TEST_005	Verify performance watchdog cold startup < 1.5s (Mod 26)	[] Pending
TEST_006	Execute memory leak & ANR stress test (Mod 26)	[] Pending
TEST_007	Execute offline mutation replay stress test (Mod 12)	[] Pending
TEST_008	Verify purchase restoration on clean device (Mod 29)	[] Pending
TEST_009	Verify push notification delivery & background handling (Mod 23)	[] Pending
TEST_010	Execute 1M User Scale load test (Mod 155)	[] Pending
TEST_011	Verify capacity planning calculations (Mod 156)	[] Pending
TEST_012	Execute chaos engineering database dropout test (Mod 157)	[] Pending
TEST_013	Verify Circuit Breaker trips on downstream failure (Mod 82)	[] Pending
TEST_014	Verify Load Shedder preserves auth during peak traffic (Mod 81)	[] Pending
TEST_015	Automated testing and scale gate approval sign-off	[] Pending

■ Layer 8: CI/CD / Release

Phase 13: CI/CD, Beta Testing & TestFlight (15 tasks)

ID	Task Description	Status
BETA_001	Trigger automated CI build for Android AAB & iOS IPA (Mod 45)	[] Pending
BETA_002	Verify Software Bill of Materials (SBOM) generation (Mod 109)	[] Pending
BETA_003	Verify cryptographic artifact signing & provenance (Mod 113)	[] Pending
BETA_004	Deploy iOS build to TestFlight Internal testers (Mod 45)	[] Pending
BETA_005	Deploy Android build to Google Play Internal track (Mod 45)	[] Pending
BETA_006	Collect crash-free session rate (Target: >=99.5%) (Mod 25)	[] Pending
BETA_007	Collect feedback from 20 internal beta testers	[] Pending
BETA_008	Verify in-app feedback submission mechanism	[] Pending
BETA_009	Verify subscription sandbox purchases on real hardware	[] Pending
BETA_010	Verify remote config flag toggles in live build (Mod 32, 33)	[] Pending
BETA_011	Verify canary rollout controller (Mod 150)	[] Pending
BETA_012	Verify 1-command release rollback procedure (Mod 149)	[] Pending
BETA_013	Resolve all P0/P1 blockers discovered in beta	[] Pending
BETA_014	Verify reproducible build hash (Mod 112)	[] Pending
BETA_015	Beta testing gate approval sign-off	[] Pending

Phase 14: Store Submission & Pre-Flight Audit (15 tasks)

ID	Task Description	Status
SUB_001	Execute Pre-Flight Auditor script (Mod 49)	[] Pending
SUB_002	Upload final signed Android App Bundle to Play Console	[] Pending
SUB_003	Upload final signed IPA archive to App Store Connect	[] Pending
SUB_004	Complete Google Play Data Safety questionnaire	[] Pending
SUB_005	Complete Apple App Privacy nutrition labels	[] Pending
SUB_006	Complete Content Rating questionnaires for both stores	[] Pending
SUB_007	Submit IAP subscription products for store review	[] Pending
SUB_008	Provide App Reviewer demo credentials & review notes	[] Pending
SUB_009	Verify account deletion endpoint link in store listing (Mod 123)	[] Pending
SUB_010	Publish Privacy Policy and Terms of Service web pages	[] Pending
SUB_011	Submit iOS build for App Store Review	[] Pending
SUB_012	Submit Android build for Google Play Review	[] Pending
SUB_013	Monitor review progress and respond to reviewer inquiries	[] Pending
SUB_014	Verify store approval on both platforms	[] Pending
SUB_015	Store submission gate approval sign-off	[] Pending

■ Layer 9: ASO / Marketing

Phase 15: ASO & Marketing Launch (15 tasks)

ID	Task Description	Status
ASO_001	Generate localized store titles, subtitles, and keywords (Mod 50)	[] Pending
ASO_002	Generate 5-slide localized store screenshots (Mod 51)	[] Pending
ASO_003	Produce 15-second App Store preview video	[] Pending
ASO_004	Publish product landing page with deep-link smart banner	[] Pending
ASO_005	Publish security.txt vulnerability disclosure policy (Mod 159)	[] Pending
ASO_006	Prepare Product Hunt & social launch campaign	[] Pending
ASO_007	Configure Apple Search Ads / Google Ads attribution	[] Pending
ASO_008	Setup launch day monitoring war-room (Mod 102, 103)	[] Pending
ASO_009	Monitor store approval & transition to Published	[] Pending
ASO_010	Verify live download and install on production Android & iOS	[] Pending
ASO_011	Verify production IAP purchase processing	[] Pending
ASO_012	Monitor real-time error rates in Sentry / Crashlytics (Mod 25)	[] Pending
ASO_013	Monitor real-time server load & autoscale readiness (Mod 80)	[] Pending
ASO_014	Publish launch announcement to target user communities	[] Pending
ASO_015	Launch gate approval sign-off	[] Pending

■ Layer 10: Analytics / Growth

Phase 16: Analytics, Review Mining & Iteration (15 tasks)

ID	Task Description	Status
POST_001	Verify real-time analytics events arriving in dashboard (Mod 53)	[] Pending
POST_002	Monitor D1 retention metric (Target: >=40%) (Mod 53)	[] Pending
POST_003	Monitor D7 retention metric (Target: >=18%) (Mod 53)	[] Pending
POST_004	Monitor trial-to-paid conversion rate (Target: >=7%) (Mod 53)	[] Pending
POST_005	Harvest and classify 1-3 star reviews with AI (Mod 52)	[] Pending
POST_006	Calculate weekly Product Health Scorecard (Mod 54)	[] Pending
POST_007	Update Factory Portfolio Database record (Mod 55)	[] Pending
POST_008	Identify top user feature request for v1.1	[] Pending
POST_009	Deploy remote config A/B paywall experiment (Mod 33)	[] Pending
POST_010	Monitor billing anomalies and AI cost consumption (Mod 129)	[] Pending
POST_011	Perform monthly secret rotation check (Mod 73)	[] Pending
POST_012	Perform monthly disaster recovery restore drill (Mod 77)	[] Pending
POST_013	Update Factory Security Monitor dashboard (Mod 162)	[] Pending
POST_014	Apply security patches to shared components via canary (Mod 160, 161)	[] Pending
POST_015	Cycle into next product iteration (Phase 1)	[] Pending