Soulstone Feature, Story & Task Catalog

Status: Final Version: v1.0 Last Updated: 2023-10-14

Overview

Launch Soulstone's trusted commerce platform for ethically sourced crystals.

Enable wellness-conscious consumers in India to discover, learn about, and purchase ethically sourced crystals through a transparent, high-performing web and mobile experience reinforced by education, subscriptions, loyalty, and community partnerships.

Success Criteria

- MVP live within 3 months with web + mobile, 100+ SKUs, payments, and Learn Hub v1.
- Year■1 traction: ≥ 25,000 paying users; repeat purchase rate ≥ 30%.
- Conversion and checkout: sitewide conversion ≥ 3.5%; checkout success ≥ 65%; payment failures ≤ 2%.
- Performance and reliability: P75 page load < 2.0s (web); crash

 free sessions > 99.5% (app).
- Unit economics: CAC ≤ ■500; LTV:CAC ≥ 8:1; AOV ≈ ■1,800.
- Quality and experience: returns ≤ 4% and defects < 2%; CSAT ≥ 90 with first response time ≤ 2 minutes; partner attributed revenue ≥ 15% and partner NPS ≥ 60 by Month 12.

Table of Contents

1. [Feature] - Engineering Foundations & Dev Environment

Description: Establish a monorepo, coding standards, and a reproducible local development environment to enable fast, consistent engineering workflows.

Acceptance Criteria:

- Monorepo structure created with apps/packages/infra as specified and workspace scripts working.
- Shared TypeScript config with strict mode and path aliases adopted by all apps.
- ESLint/Prettier configured with pre-commit hooks; commitlint and PR template in place.
- Docker Compose services (Postgres, Redis, Mailhog, etc.) start via one command; healthchecks green.
- Onboarding docs and Makefile/Taskfile allow new devs to bootstrap in < 15 minutes.

1.1. [User Story] - Monorepo and Tooling Setup

As a developer, I want a well-structured monorepo with shared tooling so that I can build, test, and collaborate consistently across apps and packages.

Acceptance Criteria:

- Workspace scripts run lint, type-check, test, and build across all packages from the root.
- Shared TypeScript, ESLint, and Prettier configs are enforced via pre-commit hooks.
- New developers can bootstrap the environment in under 15 minutes using documented scripts.

1.1.1. [Task] - Initialize monorepo (pnpm or yarn workspaces)

Description:

- Create structure: apps/api, apps/web, packages/ui, packages/config, packages/tsconfig, packages/eslint-config, infra/terraform, ops
- Configure workspace root package.json with scripts (build, dev, test, lint, format)
- Add .editorconfig, .nvmrc, .gitattributes, .gitignore

1.1.1.1. [Subtask] - Create structure: apps/api, apps/web, packages/ui, packages/config, packages/tsconfig, packages/eslint-config, infra/terraform, ops

packages/tsconfig, packages/eslint-config, infra/terraform, ops		
Description:		
Apps/api		

- Apps/web
- Packages/ui

1.1.1.2. [Subtask] - Configure workspace root package.json with scripts (build, dev, test, lint, format)

Description:

- Configure workspace root package.json with scripts (build
- Dev
- Test

1.1.1.3. [Subtask] - Add .editorconfig, .nvmrc, .gitattributes, .gitignore

Description:

- Add .editorconfig
- .nvmrc
- .gitattributes

1.1.2. [Task] - Configure TypeScript baselines

Description:

•	Enable strict mode, path aliases, incremental builds	
1.1	.2.1. [Subtask] - Define shared tsconfig in packages/tsconfig and extend in apps	
Des	scription:	
•	Define shared tsconfig in packages/tsconfig	
•	Extend in apps	
1.1.2.2. [Subtask] - Enable strict mode, path aliases, incremental builds		
Des	scription:	
•	Enable strict mode	
•	Path aliases	
•	Incremental builds	
1.1	.3. [Task] - Establish linting and formatting standards	
Des	scription:	
•	ESLint with TypeScript rules; Prettier with import/order	
•	Add lint-staged + Husky pre-commit hooks	
1.1	.3.1. [Subtask] - ESLint with TypeScript rules; Prettier with import/order	
Des	scription:	
•	ESLint with TypeScript rules	
•	Prettier with import/order	

Define shared tsconfig in packages/tsconfig and extend in apps

1.1.3.2. [Subtask] - Add lint-staged + Husky pre-commit hooks		
Description:		
Add lint-staged + Husky pre-commit hooks		
1.1.4. [Task] - Define commit and branch conventions		
Description:		
Configure committint (Conventional Commits)		
Define branch protection and PR template		
1.1.4.1. [Subtask] - Configure committint (Conventional Commits)		
Description:		
Configure committint (Conventional Commits)		
1.1.4.2. [Subtask] - Define branch protection and PR template		
Description:		
Define branch protection		
PR template		
1.2. [User Story] - Local Dev Environment		
As a developer, I want a one-command local environment so that I can run all dependent services reliably and start coding quickly.		
Acceptance Criteria:		
 Docker Compose brings up Postgres, Redis, Mailhog, and utilities with healthy checks. 		

- Environment variables are managed via .env files and validated at startup.
- Bootstrap scripts handle install, migrations, seeds, and starting dev servers.

1.2.1. [Task] - Provision Docker Compose services

Description:

- postgres (15), redis, mailhog, localstack (optional)
- Seed volumes and healthchecks; named networks

1.2.1.1. [Subtask] - postgres (15), redis, mailhog, localstack (optional)

Description:

- Postgres (15)
- Redis
- Mailhog

1.2.1.2. [Subtask] - Seed volumes and healthchecks; named networks

Description:

- Seed volumes and healthchecks
- Named networks

1.2.2. [Task] - Implement environment management

Description:

- .env.example with required vars; dotenv-safe loading
- Split envs: .env.dev, .env.test, .env.local

1.2.2.1. [Subtask] - .env.example with required vars; dotenv-safe loading

De	scription:
•	.env.example with required vars
•	Dotenv-safe loading
1.2	.2.2. [Subtask] - Split envs: .env.dev, .env.test, .env.local
De	scription:
•	.env.dev
•	.env.test
•	.env.local
1.2	.3. [Task] - Create developer bootstrap scripts
De	scription:
•	Makefile/Taskfile for install, db:up, db:migrate, db:seed, dev
•	Onboarding doc covering prerequisites and commands
1.2	.3.1. [Subtask] - Makefile/Taskfile for install, db:up, db:migrate, db:seed, dev
De	scription:
•	Up
•	Db:migrate
•	Db:seed
1.2	.3.2. [Subtask] - Onboarding doc covering prerequisites and commands
De	scription:
•	Onboarding doc covering prerequisites

Commands

2. [Feature] - Infrastructure as Code (AWS)

Description: Provision secure, scalable AWS foundations using Terraform for networking, compute, data, secrets, and observability.

Acceptance Criteria:

- VPC with public/private subnets, NAT, least-privilege security groups, and SSM access provisioned.
- Route53 + ACM for domains/certs; CloudFront + WAF fronting the web workload.
- ECR repos and ECS Fargate services for API and web with passing health checks.
- RDS Postgres Multi-AZ with encryption, backups, parameter groups; Redis cluster provisioned.
- Secrets structure in Secrets Manager/SSM; CloudWatch log retention and alarms wired to Slack/webhook.

2.1. [User Story] - Core Networking & Security

As a platform engineer, I want secure networking foundations so that services are isolated, reachable, and compliant.

Acceptance Criteria:

- VPC with public/private subnets and NAT is provisioned via Terraform.
- Security groups follow least privilege; access via SSM Session Manager.
- DNS/CDN (Route53, ACM, CloudFront, WAF) configured for public workloads.

2.1.1. [Task] - Provision VPC with public/private subnets and NAT

Description:

Terraform module for VPC, subnet, route tables Security groups least privilege; SSM Session Manager access 2.1.1.1. [Subtask] - Terraform module for VPC, subnet, route tables Description: Terraform module for VPC Subnet Route tables 2.1.1.2. [Subtask] - Security groups least privilege; SSM Session Manager access Description: Security groups least privilege SSM Session Manager access 2.1.2. [Task] - Configure DNS and CDN Description: Route 53 hosted zones; ACM certs CloudFront for web with S3 origin and WAF 2.1.2.1. [Subtask] - Route 53 hosted zones; ACM certs Description: Route 53 hosted zones

2.1.2.2. [Subtask] - CloudFront for web with S3 origin and WAF

ACM certs

Description: CloudFront for web with S3 origin WAF

2.2. [User Story] - Compute & Containers

As a platform engineer, I want containerized compute with health-checked deployments so that API and web run reliably and scale predictably.

Acceptance Criteria:

- ECR repos created with immutability and scanning; lifecycle policies applied.
- ECS Fargate services for API/web deploy with passing health/readiness checks.
- SSR vs SSG deployment path is chosen and documented.

2.2.1. [Task] - Create ECR repositories and lifecycle policies

Description:

Private ECR with immutability and tag scanning

2.2.1.1. [Subtask] - Private ECR with immutability and tag scanning

Description:

- Private ECR with immutability
- Tag scanning

2.2.2. [Task] - Provision ECS Fargate services

Description:

API service behind ALB; health/readiness checks

Web SSR service (if Next SSR) or static S3 hosting

2.2.2.1. [Subtask] - API service behind ALB; health/readiness checks

Description:

- API service behind ALB
- Health/readiness checks

2.2.2.2. [Subtask] - Web SSR service (if Next SSR) or static S3 hosting

Description:

Web SSR service (if Next SSR) or static S3 hosting

2.3. [User Story] - Data Stores

As a platform engineer, I want managed data stores configured securely so that application data is durable, performant, and recoverable.

Acceptance Criteria:

- RDS Postgres Multi-AZ with encryption, backups, and tuned parameters is provisioned.
- Redis cluster for sessions/cache is available with appropriate limits and alerts.
- Monitoring and alerts exist for connections, storage, replication, and failures.

2.3.1. [Task] - Provision RDS PostgreSQL (Multi-AZ) with security

Description:

- Parameter groups, backups, encryption at rest
- Read replica plan; connection limits and alerts

2.3.1.1. [Subtask] - Parameter groups, backups, encryption at rest

Parameter groups

Description:

Backups

Encryption at rest
2.3.1.2. [Subtask] - Read replica plan; connection limits and alerts
Description:
Read replica plan
Connection limits and alerts
2.3.2. [Task] - Provision ElastiCache Redis for sessions/cache
Description:
Provision ElastiCache Redis for sessions/cache
2.4. [User Story] - Secrets & Keys
As a security engineer, I want centralized secret management so that credentials are rotated, scoped by environment, and never hard-coded.
Acceptance Criteria:
Secrets are organized by environment in Secrets Manager/SSM Parameter Store.
Rotation policies and IAM boundaries are applied; access is logged and auditable.
Applications read secrets at runtime without storing plaintext in code or images.
2.4.1. [Task] - Define Secrets Manager/SSM Parameter Store structure
Description:

- Namespace by env (dev/stage/prod)
- Rotation policy and IAM access boundaries

2.4.1.1. [Subtask] - Namespace by env (dev/stage/prod)

Description:

Namespace by env (dev/stage/prod)

2.4.1.2. [Subtask] - Rotation policy and IAM access boundaries

Description:

- Rotation policy
- IAM access boundaries

2.5. [User Story] - Observability Base

As an SRE, I want baseline logs, metrics, and alerts so that issues are detectable and actionable from day one.

Acceptance Criteria:

- CloudWatch log groups have retention set; error/latency metric filters exist.
- Key alarms route to Slack/webhook with actionable thresholds and runbooks.
- Health and metrics endpoints are instrumented and visible in dashboards.

2.5.1. [Task] - Create CloudWatch log groups and metrics

Description:

Log retention policies; metric filters for errors/latency

2.5.1.1. [Subtask] - Log retention policies; metric filters for errors/latency

Description:

- Log retention policies
- Metric filters for errors/latency

2.5.2. [Task] - Configure alarms and notifications

Description:

• SNS + Slack/webhook integration for alerts

2.5.2.1. [Subtask] - SNS + Slack/webhook integration for alerts

Description:

SNS + Slack/webhook integration for alerts

3. [Feature] - CI/CD Pipelines

Description: Automate build, test, security scanning, artifact creation, and deployments with preview environments.

Acceptance Criteria:

- GitHub Actions run lint, type-check, unit tests, and build with caching on every PR.
- Dependency, image, and secret scans gate merges; SBOMs produced for images.
- Docker images are non-root, multi-stage, with healthchecks and graceful shutdown.
- API deploys via blue/green with auto-rollback; web deploys with invalidations; DB migrations gated.
- Per-PR preview environments spin up and tear down automatically.

3.1. [User Story] - Continuous Integration

As a developer, I want consistent CI checks so that code quality and builds are validated on every change.

Acceptance Criteria:

- Lint, type-check, unit tests, and build jobs run in GitHub Actions with caching.
- Security scans (dependencies, images, secrets) gate merges.
- PR status reflects all checks; failures block merges until fixed.

3.1.1. [Task] - Implement GitHub Actions workflows

Description:

- Jobs: lint, type-check, unit tests, build
- Cache node modules and build artifacts

3.1.1.1. [Subtask] - Jobs: lint, type-check, unit tests, build

Description:

- Lint
- Type-check
- Unit tests

3.1.1.2. [Subtask] - Cache node modules and build artifacts

Description:

- Cache node modules
- Build artifacts

3.1.2. [Task] - Integrate security scanning in CI

Description:

- eslint-plugin-security, npm audit, trivy image scan
- Secret scanning (gitleaks)

3.1.2.1. [Subtask] - eslint-plugin-security, npm audit, trivy image scan

Description:

- Eslint-plugin-security
- Npm audit
- Trivy image scan

3.1.2.2. [Subtask] - Secret scanning (gitleaks)

Description:

Secret scanning (gitleaks)

3.2. [User Story] - Build & Release Artifacts

As a release engineer, I want reproducible images and artifacts so that deployments are consistent and traceable.

Acceptance Criteria:

- Multi-stage Dockerfiles produce minimal non-root images with healthcheck and SIGTERM handling.
- Images are tagged with SHA/semver; SBOMs are generated and stored.
- Versioning and changelogs follow semantic versioning.

3.2.1. [Task] - Create multi-stage Dockerfiles for API and Web

Description:

Non-root user, minimal base (alpine or distroless)		
Healthcheck and SIGTERM handling		
3.2.1.1. [Subtask] - Non-root user, minimal base (alpine or distroless)		
Description:		
Non-root user		
Minimal base (alpine or distroless)		
3.2.1.2. [Subtask] - Healthcheck and SIGTERM handling		
Description:		
Healthcheck		
SIGTERM handling		
3.2.2. [Task] - Implement image versioning and SBOM generation		
Description:		
Tagging with sha/semver; syft/grype SBOM		
3.2.2.1. [Subtask] - Tagging with sha/semver; syft/grype SBOM		
Description:		
Tagging with sha/semver		
Syft/grype SBOM		
3.3. [User Story] - Continuous Delivery		

As a release manager, I want automated, safe deployments so that releases roll out quickly with
rollback safety.

Acceptance Criteria:

- API deploys via blue/green with auto-rollback on health check failure.
- Web deploys via S3+CloudFront invalidations (SSG) or ECS (SSR) as appropriate.
- Per-PR preview environments spin up and shut down automatically; DB migrations are gated.

3.3.1. [Task] - Deploy API to ECS with blue/green

Description:

· Auto rollback on health check failure

3.3.1.1. [Subtask] - Auto rollback on health check failure

Description:

Auto rollback on health check failure

3.3.2. [Task] - Deploy Web

Description:

S3+CloudFront invalidations (SSG) or ECS (SSR)

3.3.2.1. [Subtask] - S3+CloudFront invalidations (SSG) or ECS (SSR)

Description:

S3+CloudFront invalidations (SSG) or ECS (SSR)

3.3.3. [Task] - Gate database migrations in deploys

Description:		
Gate deploy on successful migrate; rollback plan		
3.3.3.1. [Subtask] - Gate deploy on successful migrate; rollback plan		
Description:		
Gate deploy on successful migrate		
Rollback plan		
3.3.4. [Task] - Provision preview environments per PR		
Description:		
Ephemeral API + web URLs; tear-down job		
3.3.4.1. [Subtask] - Ephemeral API + web URLs; tear-down job		
Description:		
Ephemeral API + web URLs		
Tear-down job		
4. [Feature] - Security & Compliance		
Description: Implement application security controls, privacy rights, fraud pro remediation workflows.	tection, and pen-test	
Acceptance Criteria:		
OWASP controls enforced (validation, headers, CORS, CSRF where rele	evant).	

- IP/user rate limits and circuit breakers protect critical routes.
- Consent management and privacy rights portal operational (export/delete ≤ 7 days SLA).
- Pen-test triage, remediation, verification, and reporting tracked to closure.
- Pre/post-payment risk scoring with actions (hold/cancel/manual review) enabled.

4.1. [User Story] - AppSec Baseline

As a security engineer, I want application security controls enforced so that common vulnerabilities are prevented and threats are mitigated early.

Acceptance Criteria:

- Input/output validation is enforced (Zod); queries are parameterized to prevent injection.
- Security headers (Helmet/CSP, HSTS) and a strict CORS allowlist are configured.
- Rate limiting and circuit breakers are applied to sensitive routes with safe errors.

4.1.1. [Task] - Enforce OWASP Top 10 controls

Description:

- Input/output validation (Zod) and parameterized queries
- Helmet/CSP, HSTS, CORS allowlist

4.1.1.1. [Subtask] - Input/output validation (Zod) and parameterized queries

Description:

- Input/output validation (Zod)
- Parameterized queries

4.1.1.2. [Subtask] - Helmet/CSP, HSTS, CORS allowlist

Description:

•	Helmet/CSP
•	HSTS
•	CORS allowlist
4.1	.2. [Task] - Implement rate limiting and abuse prevention
De	scription:
•	Per-IP and per-token quotas; circuit breaker
4.1	.2.1. [Subtask] - Per-IP and per-token quotas; circuit breaker
De	scription:
•	Per-IP and per-token quotas
•	Circuit breaker
4.2	2. [User Story] - Privacy & DPDP/GDPR
	a privacy officer, I want consent and data rights tooling so that we comply with DPDP/GDPR and pect user choices.
Aco	ceptance Criteria:
•	Consent is captured and enforced; SDKs and pixels are gated by preferences.
•	Data rights portal supports export/delete within 7 days with audit logs.
•	Preference changes propagate across channels and are honored in downstream systems.
4.2	2.1. [Task] - Implement consent management and preferences store
De	scription:
•	Cookie banner and SDK gating

4.2.1.1. [Subtask] - Cookie banner and SDK gating

Description:

- Cookie banner
- SDK gating

4.2.2. [Task] - Build data rights portal

Description:

Export/delete with audit log; SLA ≤ 7 days

4.2.2.1. [Subtask] - Export/delete with audit log; SLA ≤ 7 days

Description:

- Export/delete with audit log
- SLA ≤ 7 days

4.3. [User Story] - Penetration Testing & Remediation

As a security lead, I want a repeatable pen-test remediation workflow so that findings are triaged, fixed, and verified within SLA.

Acceptance Criteria:

- Findings are classified by severity with owners and documented SLAs.
- Remediations are verified with re-tests and CI regression coverage.
- Reports, approvals, and changes are tracked with an auditable trail.

4.3.1. [Task] - Establish triage and severity classification

Description:

SLAs by severity; owner assignment and tracking		
4.3.1.1. [Subtask] - SLAs by severity; owner assignment and tracking		
Description:		
SLAs by severityOwner assignment and tracking		
4.3.2. [Task] - Execute remediation and verification		
Description:		
Re-test and regression tests wired into CI		
4.3.2.1. [Subtask] - Re-test and regression tests wired into CI		
Description:		
 Re-test Regression tests wired into CI 		
4.3.3. [Task] - Implement reporting and change management		
Description:		
Approvals, audit trail, and post-mortems		
4.3.3.1. [Subtask] - Approvals, audit trail, and post-mortems		
Description:		
ApprovalsAudit trail		

Post-mortems

4.4. [User Story] - Fraud & Risk Scoring Hooks

As a risk analyst, I want risk scoring hooks so that suspicious orders trigger review, holds, or cancellations before loss occurs.

Acceptance Criteria:

- Pre/post-payment risk evaluation uses device/IP/email heuristics and velocity.
- A manual review queue exists; actions include auto-hold/cancel with audit logs.
- Decisions and outcomes are recorded with reasons for reporting and tuning.

4.4.1. [Task] - Implement pre/post-payment risk evaluation

Description:

Signals: device/IP/email heuristics, velocity, coupon abuse

4.4.1.1. [Subtask] - Signals: device/IP/email heuristics, velocity, coupon abuse

Description:

- Device/IP/email heuristics
- Velocity
- Coupon abuse

4.4.2. [Task] - Configure actions and workflows

Description:

Manual review queue; auto-cancel/hold rules; audit logs

4.4.2.1. [Subtask] - Manual review queue; auto-cancel/hold rules; audit logs

Description:

- Manual review queue
- Auto-cancel/hold rules
- Audit logs

5. [Feature] - Database & Data Modeling (PostgreSQL + Prisma)

Description: Define robust relational models and performance patterns for core entities with repeatable migrations.

Acceptance Criteria:

- Prisma schema covers core domain models with keys, constraints, and enums.
- Migrations apply cleanly across dev/stage/prod; rollback procedure documented.
- Indexes exist for search/facets and hot queries; partial indexes where appropriate.
- Seed data and anonymized fixtures available for dev/test.
- Automated backups configured; quarterly restore drill documented.

5.1. [User Story] - Schema Foundation

As a backend engineer, I want robust relational models so that data integrity and performance are ensured across core entities.

Acceptance Criteria:

- Prisma schema defines core models with enums, keys, and constraints.
- Migrations apply cleanly across environments; FKs, cascades, and unique constraints enforced.
- Indexes cover search/facets and hot queries to meet performance targets.

5.1.1. [Task] - Define core models (User, Address, Product, Collection, Inventory, Cart, CartItem, Order, Payment, Review, Subscription, Article, Media)		
Description:		
Prisma schema and enums; migrations		
Foreign keys, cascades, unique constraints		
5.1.1.1. [Subtask] - Prisma schema and enums; migrations		
Description:		
Prisma schema and enums		
• Migrations		
5.1.1.2. [Subtask] - Foreign keys, cascades, unique constraints		
Description:		
Foreign keys		
• Cascades		
Unique constraints		
5.1.2. [Task] - Implement indexing for performance		
Description:		
B-tree/GiST indexes for search/facets; partial indexes		
5.1.2.1. [Subtask] - B-tree/GiST indexes for search/facets; partial indexes		
Description:		
B-tree/GiST indexes for search/facets		

•	Partial	indexes

5.2. [User Story] - Data Lifecycle

As a data engineer, I want seed data, backups, and restore procedures so that environments are consistent and recoverable.

Acceptance Criteria:

- Dev/test fixtures and anonymized sample content exist and are easy to load.
- Automated snapshots are configured; quarterly restore drill is documented and tested.
- Backup retention meets policy with monitoring for failures.

5.2.1. [Task] - Create seed data for dev/test

Description:

Factories and fixtures; anonymized sample content

5.2.1.1. [Subtask] - Factories and fixtures; anonymized sample content

Description:

- Factories and fixtures
- Anonymized sample content

5.2.2. [Task] - Configure backups and run restore drills

Description:

Automated snapshots; quarterly restore test

5.2.2.1. [Subtask] - Automated snapshots; quarterly restore test

Description:

- Automated snapshots
- Quarterly restore test

6. [Feature] - API Platform (Express/Node, TypeScript)

Description: Provide a modular, observable REST API with validation, errors, security, and auth primitives.

Acceptance Criteria:

- Express app structured by routes/controllers/services/repos with request ID logging and health/metrics endpoints.
- Standardized error shape and codes; DTO validation/sanitization via Zod.
- Auth endpoints support JWT access/refresh rotation, email verification, and password reset.
- Route-level rate limits enforced via Redis token bucket.
- Metrics and structured logs available in CloudWatch/Sentry.

6.1. [User Story] - API Server Scaffolding

As a backend engineer, I want a modular API with logging and health endpoints so that services are maintainable and observable.

Acceptance Criteria:

- Express app is structured by routes/controllers/services/repos with pino logging.
- Request IDs are correlated; health, readiness, and metrics endpoints are exposed.
- Basic metrics are visible in CloudWatch/Sentry dashboards.

6.1.1. [Task] - Implement Express app with modular structure (routes/controllers/services/repos)

Request ID correlation and structured logging (pino) Health, readiness, and metrics endpoints

6.1.1.1. [Subtask] - Request ID correlation and structured logging (pino)

Description:

- Request ID correlation
- Structured logging (pino)

6.1.1.2. [Subtask] - Health, readiness, and metrics endpoints

Description:

- Health
- Readiness
- Metrics endpoints

6.2. [User Story] - Error Handling & Validation

As a developer, I want standardized error handling and input validation so that failures are predictable and safe.

Acceptance Criteria:

- Global error handler returns a standardized error shape and codes.
- DTO validation and sanitization via Zod; inputs normalized and safe.
- Errors include correlation IDs; 4xx/5xx split is consistent and logged.

6.2.1. [Task] - Implement global error handler and error shape

Description:
 Map to codes: AUTH_FAILED, FORBIDDEN, NOT_FOUND, VALIDATION_ERROR, RATE_LIMITED
6.2.1.1. [Subtask] - Map to codes: AUTH_FAILED, FORBIDDEN, NOT_FOUND, VALIDATION_ERROR, RATE_LIMITED
Description:
AUTH_FAILED
• FORBIDDEN
NOT_FOUND
6.2.2. [Task] - Add DTO validation
Description:
Zod schemas; sanitize and normalize inputs
6.2.2.1. [Subtask] - Zod schemas; sanitize and normalize inputs
Description:
Zod schemas
Sanitize and normalize inputs
6.3. [User Story] - Auth Endpoints
As a customer, I want to sign up, sign in, and manage my session so that I can securely access my account.
Acceptance Criteria:
 JWT access/refresh with rotation and a revocation store (Redis) is implemented.

- Email verification and password reset flows work end-to-end with tokens.
- Refresh and logout endpoints invalidate tokens correctly and log events.

6.3.1. [Task] - Implement auth endpoints: /auth/signup, /auth/login, /auth/refresh, /auth/logout

Description:

- JWT (RS256) access/refresh; rotation and revocation store (Redis)
- Email verification, password reset tokens

6.3.1.1. [Subtask] - JWT (RS256) access/refresh; rotation and revocation store (Redis)

Description:

- JWT (RS256) access/refresh
- Rotation and revocation store (Redis)

6.3.1.2. [Subtask] - Email verification, password reset tokens

Description:

- Email verification
- Password reset tokens

6.4. [User Story] - Rate Limiting & Security

As a security engineer, I want IP/user throttles so that abuse is contained without hurting legitimate traffic.

Acceptance Criteria:

- Redis-backed token bucket enforces per-route and per-identity limits.
- Configurable quotas return safe errors and expose metrics for tuning.

Lin	it events are	logged and	observable to	detect abuse	patterns.
-----------------------	---------------	------------	---------------	--------------	-----------

6.4.1. [Task] - Implement IP and user-based throttles

Description:

Redis-backed token bucket; per-route configs

6.4.1.1. [Subtask] - Redis-backed token bucket; per-route configs

Description:

- · Redis-backed token bucket
- Per-route configs

7. [Feature] - Authentication & Accounts

Description: Manage user identities, profiles, addresses, and active sessions with security controls.

Acceptance Criteria:

- Profile CRUD and Indian address validation with default address selection.
- Session/device listing and revocation available from account settings.
- Data model ensures uniqueness and referential integrity for users/addresses.
- API permissions enforced for protected profile endpoints.

7.1. [User Story] - User Profile & Address Book

As a customer, I want to manage my profile and addresses so that checkout is fast and accurate.

Acceptance Criteria:

•	Profile and address CRUD works with Indian address validation and default selection.
•	Default address is persisted and used at checkout; changes reflect immediately.
•	Authorization is enforced; users can only view/edit their own data.
7.1.	.1. [Task] - Implement profile and address CRUD
Des	scription:
•	Indian address validation; default selection
7.1.	1.1. [Subtask] - Indian address validation; default selection
Des	scription:
•	Indian address validation
•	Default selection
7.1.	2. [Task] - Implement session and device management
Des	scription:
•	List/revoke active sessions
7.1.	2.1. [Subtask] - List/revoke active sessions
Des	scription:
•	List/revoke active sessions
7.2	2. [User Story] - Account Lifecycle (Delete/Close)
As	a customer, I want to delete my account and export my data so that I control my information.
Acc	eeptance Criteria:

- Deletion/export requests require identity verification and are queued with SLA.
- Soft-delete window and purge job with audit logging are implemented.
- Users receive status updates and confirmations for each step.

7.2.1. [Task] - Implement account deletion and data export requests

Description:

- Identity verification; queue with SLA
- Soft-delete window; purge job and audit log

7.2.1.1. [Subtask] - Identity verification; queue with SLA

Description:

- Identity verification
- Queue with SLA

7.2.1.2. [Subtask] - Soft-delete window; purge job and audit log

Description:

- Soft-delete window
- Purge job and audit log

7.3. [User Story] - Contact Changes & Reverification

As a customer, I want to change my email or phone with re-verification so that my account stays secure.

Acceptance Criteria:

• New contact is verified before switch; login identifiers migrate safely.

- Old contact is notified; a recovery lockout window is enforced.
- All attempts and outcomes are audited for security.

7.3.1. [Task] - Implement contact change with re-verification

Description:

- Verify new contact; migrate login identifiers
- Notify old contact; recovery lockout window

7.3.1.1. [Subtask] - Verify new contact; migrate login identifiers

Description:

- Verify new contact
- Migrate login identifiers

7.3.1.2. [Subtask] - Notify old contact; recovery lockout window

Description:

- Notify old contact
- Recovery lockout window

7.4. [User Story] - Anti-automation on Auth

As a security engineer, I want anti-automation on auth endpoints so that bots and attackers are throttled without harming good users.

Acceptance Criteria:

- CAPTCHA or risk checks protect signup/login/forgot; global rate limits applied.
- Device/IP heuristic scoring drives graduated challenges and throttles.

Accessible fallbacks exist for legitimate users who fail challenges.

7.4.1. [Task] - Add CAPTCHA and risk checks to auth endpoints

Description:

- Apply to signup/login/forgot; global rate limits (see 6.4)
- Device/IP heuristic scoring and throttles

7.4.1.1. [Subtask] - Apply to signup/login/forgot; global rate limits (see 6.4)

Description:

- Apply to signup/login/forgot
- Global rate limits (see 6.4)

7.4.1.2. [Subtask] - Device/IP heuristic scoring and throttles

Description:

- Device/IP heuristic scoring
- Throttles

8. [Feature] - Catalog & Search

Description: Enable rich product discovery with facets, search, and informative PDPs.

Acceptance Criteria:

- PLP supports facets, sorting, and pagination with empty-state handling.
- PDP shows images, price, origin, authenticity, energy tags; related products present.

- Search includes typeahead, synonyms, fuzzy match, and recent searches.
- JSON-LD structured data present for PDP and breadcrumbs.

8.1. [User Story] - Catalog Browse (PLP)

As a shopper, I want to browse products with filters and sorting so that I can find relevant items quickly.

Acceptance Criteria:

- PLP supports facets, sorting, and pagination with empty-state handling.
- Performance meets budgets; analytics events are tracked for browse actions.
- Zero-result state suggests alternative intents or searches.

8.1.1. [Task] - Implement products list with facets (type, intention, chakra, price, size, origin, rating)

Description:

- · Cursor/offset pagination; sort options
- Zero-result handling with suggested intents

8.1.1.1. [Subtask] - Cursor/offset pagination; sort options

Description:

- Cursor/offset pagination
- Sort options

8.1.1.2. [Subtask] - Zero-result handling with suggested intents

Description:

Zero-result handling with suggested intents

8.2. [User Story] - Product Detail (PDP)

As a shopper, I want detailed product information so that I can buy confidently.

Acceptance Criteria:

- PDP shows images, price, origin, authenticity, and energy tags.
- Related products and structured data (JSON-LD) are present.
- Stock and variants are selectable and reflected accurately.

8.2.1. [Task] - Implement PDP data display: images, price, origin, authenticity, energy tags

Description:

Related products by intent/type; JSON-LD

8.2.1.1. [Subtask] - Related products by intent/type; JSON-LD

Description:

- Related products by intent/type
- JSON-LD

8.3. [User Story] - Search Service

As a shopper, I want fast, relevant search so that I can find products by name, intent, or tags.

Acceptance Criteria:

- Typeahead and full-text search support synonyms and fuzzy matching.
- Recent searches are stored with a clear option for the user.
- Results paginate and meet performance targets.

8.3.1. [Task] - Implement typeahead and full-text search

Description: Synonyms (e.g., Amethyst <-> Jamunia); fuzzy match Recent searches and clear history 8.3.1.1. [Subtask] - Synonyms (e.g., Amethyst <-> Jamunia); fuzzy match Description: Synonyms (e.g., Amethyst <-> Jamunia) Fuzzy match 8.3.1.2. [Subtask] - Recent searches and clear history Description: Recent searches Clear history 8.4. [User Story] - Variants & Options As a shopper, I want to select variants and options so that I purchase the exact SKU I need. Acceptance Criteria: Variant modeling supports option swatches and canonical SKU selection. Selected options update price and availability consistently across the UI. Invalid combinations are disabled or clearly indicated. 8.4.1. [Task] - Implement variant modeling and selection UI Description:

Option swatches; canonical SKU selection
8.4.1.1. [Subtask] - Option swatches; canonical SKU selection
Description:
Option swatches
Canonical SKU selection
8.5. [User Story] - Indexing Pipeline
As a shopper, I want new and updated products to appear in search quickly so that catalog changes reflect promptly.
Acceptance Criteria:
Incremental indexing runs on publish; background reindex available.
Partial updates are supported; failures are retried with logging.
Index freshness is monitored with alerts.
8.5.1. [Task] - Implement incremental indexing and reindex jobs
Description:
Publish hooks; background reindex; partial updates
8.5.1.1. [Subtask] - Publish hooks; background reindex; partial updates
Description:
Publish hooks
Background reindex

Partial updates

8.6. [User Story] - Search Analytics & Curation

As a merchandiser, I want zero-result analytics and synonym curation so that search outcomes improve over time.

Acceptance Criteria:

- Zero-result queries are tracked; synonyms/redirects can be curated.
- Promote/demote rules are configurable and auditable.
- Impact of curation is measured with analytics.

8.6.1. [Task] - Implement zero-result analytics and synonyms curation

Description:

Curate synonyms/redirects; promote/demote rules

8.6.1.1. [Subtask] - Curate synonyms/redirects; promote/demote rules

Description:

- Curate synonyms/redirects
- Promote/demote rules

9. [Feature] - Cart & Pricing

Description: Provide accurate carts with discounts, tax, shipping, and guest/server persistence.

Acceptance Criteria:

Add/update/remove items recalculates subtotal, tax, shipping, and discounts.

- Server cart persists for auth users; guest cart persists locally.
- Merge-on-login resolves conflicts and recalculates totals deterministically.
- Idempotent cart mutations and consistent pricing across sessions.

9.1. [User Story] - Cart Service

As a shopper, I want my cart to reflect items and totals accurately so that I always know what I'll pay.

Acceptance Criteria:

- Add/update/remove recalculates subtotal, tax, shipping, and discounts deterministically.
- Server cart persists for auth users; guest cart persists locally; merge-on-login resolves conflicts.
- Cart mutations are idempotent and pricing is consistent across sessions.

9.1.1. [Task] - Implement add/update/remove items and totals (subtotal, tax, shipping, discounts)

Description:

Server cart persistence; guest cart local persistence

9.1.1.1. [Subtask] - Server cart persistence; guest cart local persistence

Description:

- Server cart persistence
- · Guest cart local persistence

9.1.2. [Task] - Implement merge-on-login

Description:

· Conflict resolution and price recalc

9.1.2.1. [Subtask] - Conflict resolution and price recalc

Description:

- Conflict resolution
- Price recalc

9.2. [User Story] - Inventory Reservations

As a shopper, I want items reserved briefly when added to cart so that availability doesn't vanish unexpectedly at checkout.

Acceptance Criteria:

- Reservation occurs on add-to-cart with a clear TTL and release on abandon.
- Oversell guardrails and alerts prevent negative stock situations.
- · Reservations are reflected in availability checks during checkout.

9.2.1. [Task] - Implement reservation on add-to-cart

Description:

- TTL and release on abandon
- Oversell guardrails and alerts

9.2.1.1. [Subtask] - TTL and release on abandon

Description:

- TTL
- Release on abandon

9.2.1.2. [Subtask] - Oversell guardrails and alerts

Description:
Oversell guardrailsAlerts
9.3. [User Story] - Estimators & Gifting
As a shopper, I want pre-login shipping/tax estimates and gifting options so that I can decide before checking out.
Acceptance Criteria:
PIN estimator shows shipping/tax estimates prior to login.
Gift wrap and message options include fees and a preview.
Packing slip/receipt handles gift messaging correctly.
9.3.1. [Task] - Implement shipping/tax estimate pre-login
Description:
Pin code estimator on cart
9.3.1.1. [Subtask] - Pin code estimator on cart
Description:
Pin code estimator on cart
9.3.2. [Task] - Implement gift wrap and messages
Description:
Fees, preview, and packing slip handling
9.3.2.1. [Subtask] - Fees, preview, and packing slip handling

Description:

- Fees
- Preview
- Packing slip handling

10. [Feature] - Checkout & Payments (Razorpay/Stripe)

Description: Deliver a secure, reliable checkout with address/shipping, payment intents, and robust webhooks.

Acceptance Criteria:

- Address capture validates PIN/phone; shipping methods selectable and priced.
- Payment intents created with idempotency; success/failure states handled.
- Webhook signatures verified; retries with DLQ; orders reflect payment state.
- PCI scope limited (no PAN storage); sensitive data never logged.
- Happy-path checkout completes under target latency; failure paths recover gracefully.

10.1. [User Story] - Address & Shipping

As a shopper, I want to enter my address and choose shipping so that delivery is accurate and priced clearly.

Acceptance Criteria:

- Address capture validates PIN/phone with clear, localized errors.
- Shipping methods are selectable with prices and delivery windows.
- Reused address validation engine; data persists to profile where applicable.

Description:

Pin code and phone validation
Reuse address validation engine (see 7.1.1.1)
10.1.1.1. [Subtask] - Pin code and phone validation
Description:
Pin code
Phone validation
10.1.1.2. [Subtask] - Reuse address validation engine (see 7.1.1.1)
Description:
Reuse address validation engine (see 7.1.1.1)
10.2. [User Story] - Payment Intent & Confirmation
As a shopper, I want secure payment flows so that I can complete my order reliably.
Acceptance Criteria:
Payment intent is created with idempotency; success/failure states are handled.
Webhook signatures are verified; retries with DLQ keep orders in sync.
Clear error states and recovery paths are presented to users.
10.2.1. [Task] - Create payment intent; handle success/failure
Description:

10.1.1. [Task] - Implement address capture and validation; shipping methods

•	Idempotency	keys	on	writes
---	-------------	------	----	--------

10.2.1.1. [Subtask] - Idempotency keys on writes

Description:

· Idempotency keys on writes

10.2.2. [Task] - Implement payment webhooks

Description:

• Signature validation; retries and DLQ

10.2.2.1. [Subtask] - Signature validation; retries and DLQ

Description:

- Signature validation
- Retries and DLQ

10.3. [User Story] - Regulatory & Risk Controls

As a compliance officer, I want regulatory controls in checkout so that we meet legal and risk requirements.

Acceptance Criteria:

- 3DS/SCA challenges function; terms/return policy acceptance is captured and logged.
- COD eligibility is enforced by PIN serviceability, order value caps, and fee toggles.
- Risk actions are logged with an auditable trail.

10.3.1. [Task] - Implement 3DS/SCA and terms acceptance

Provider challenge UI; error states

Terms/return policy checkbox and logging
10.3.1.1. [Subtask] - Provider challenge UI; error states
Description:
Provider challenge UI
Error states
10.3.1.2. [Subtask] - Terms/return policy checkbox and logging
Description:
Terms/return policy checkbox
• Logging
10.3.2. [Task] - Implement COD eligibility and fees
Description:
PIN serviceability, order value caps, fee toggles
10.3.2.1. [Subtask] - PIN serviceability, order value caps, fee toggles
Description:
PIN serviceability
Order value caps
• Fee toggles
10.4. [User Story] - Provider Resilience & Retries

As a shopper, I want resilient payments so that provider hiccups don't block my purchase.

Acceptance Criteria:

- Retry/backoff strategy handles transient failures; fallback provider routing is available.
- Payment attempts are idempotent to avoid double charges.
- Users see accurate payment status with guidance on next steps.

10.4.1. [Task] - Implement payment provider failover and retry logic

Description:

Retry/backoff; fallback provider routing

10.4.1.1. [Subtask] - Retry/backoff; fallback provider routing

Description:

- Retry/backoff
- Fallback provider routing

11. [Feature] - Orders, Fulfillment & Returns

Description: Manage order lifecycle, shipments, returns, and refunds with full auditability.

Acceptance Criteria:

- Order state transitions tracked with emitted domain events.
- Shipment tracking synced from carrier webhooks; status visible to users.
- Returns created with eligibility checks; refunds posted to ledger.

Full timeline and notes maintained for each order.
11.1. [User Story] - Order Lifecycle
As a customer, I want my order to progress transparently so that I always know its status.
Acceptance Criteria:
Order state transitions are tracked with domain events and timestamps.
Shipment tracking syncs from carrier and is visible in account.
 Notifications are sent on key transitions (created, paid, shipped, delivered).
11.1.1. [Task] - Implement order states and transitions (created, paid, fulfilled, refunded)
Description:
Event emission for state changes
11.1.1.1. [Subtask] - Event emission for state changes
Description:
Event emission for state changes
11.1.2. [Task] - Implement shipment tracking
Description:
Carrier tracking link and status sync
11.1.2.1. [Subtask] - Carrier tracking link and status sync
Description:

Carrier tracking link

Status sync

11.2. [User Story] - Returns & Refunds

As a customer, I want easy returns and prompt refunds so that I trust the store.

Acceptance Criteria:

- RMA creation checks eligibility and provides status updates.
- Refunds are processed and posted to the ledger; customer is notified.
- SLA targets are communicated and met for common cases.

11.2.1. [Task] - Implement RMA creation and eligibility checks

Description:

Refund processing and ledger updates

11.2.1.1. [Subtask] - Refund processing and ledger updates

Description:

- Refund processing
- Ledger updates

11.3. [User Story] - Split Shipments & Partial Fulfillment

As a customer, I want partial fulfillment when needed so that available items ship without waiting.

Acceptance Criteria:

- Split shipments are supported with multiple tracking numbers.
- Shipment items and aggregated status are clear in the order timeline.

Price/tax adjustments for partials are handled correctly.
11.3.1. [Task] - Implement partial fulfillment and multi-tracking
Description:
Shipment items and status aggregation
11.3.1.1. [Subtask] - Shipment items and status aggregation
Description:
Shipment items
Status aggregation
11.4. [User Story] - Cancellations & Exchanges
As a customer, I want to cancel or exchange orders within policy so that I can fix mistakes.
Acceptance Criteria:
Cancellation windows and fees are enforced by pre/after-ship rules.
Exchange flow creates the new order and validates stock.
Notifications confirm actions and next steps.
11.4.1. [Task] - Implement cancellation windows and fees
Description:
Pre-ship/after-ship rules; notifications
11.4.1.1. [Subtask] - Pre-ship/after-ship rules; notifications
Description:

Pre-ship/after-ship rulesNotifications

11.4.2. [Task] - Implement exchange flow

Description:

• Exchange order creation; stock checks

11.4.2.1. [Subtask] - Exchange order creation; stock checks

Description:

- Exchange order creation
- Stock checks

11.5. [User Story] - Guest Tracking & Invoices

As a guest, I want to track my order and download invoices so that I don't need an account.

Acceptance Criteria:

- Guest lookup via email/phone with OTP verification.
- Invoice PDF includes GST details and is downloadable.
- Rate limits and abuse protections apply to guest lookup.

11.5.1. [Task] - Implement guest order lookup via email/phone + OTP

Description:

Invoice PDF download with GST details

11.5.1.1. [Subtask] - Invoice PDF download with GST details

Description:

Invoice PDF download with GST details

12. [Feature] - Reviews & UGC

Description: Collect verified product reviews and media with moderation and anti-abuse.

Acceptance Criteria:

- Review CRUD restricted to verified purchasers; media uploads via presigned URLs with AV scanning.
- Anti-spam enforced leveraging global rate limiting (see 6.4); moderation queue operational.
- Published reviews meet content policy; takedown workflow exists.
- Review events tracked for analytics.

12.1. [User Story] - Verified Reviews

As a customer, I want to write reviews only when I've purchased so that content is trustworthy.

Acceptance Criteria:

- Review CRUD is restricted to verified purchasers with moderation queue.
- Media uploads use presigned URLs and pass AV scanning.
- Anti-spam is enforced leveraging global rate limits.

12.1.1. [Task] - Implement review CRUD with verification and moderation

Description:

Media uploads via presigned URLs; virus scan

12.1.1.1. [Subtask] - Media uploads via presigned URLs; virus scan
Description:
Media uploads via presigned URLs
• Virus scan
12.1.2. [Task] - Implement anti-spam (uses global rate limiting; see 6.4)
Description:
Implement anti-spam (uses global rate limiting
• See 6.4)
12.2. [User Story] - Quality Signals & Merchant Replies
As a customer, I want helpful review signals and merchant replies so that I can evaluate products better.
Acceptance Criteria:
Helpful votes are one-per-user; reply moderation is enforced.
Flagged content workflow includes reasons, SLAs, and takedown audit.
Merchant replies display clearly on PDP.
12.2.1. [Task] - Implement helpful votes and merchant replies
Description:
One-vote-per-user; reply moderation
12.2.1.1. [Subtask] - One-vote-per-user; reply moderation
Description:

One-vote-per-userReply moderation
12.2.2. [Task] - Implement flagged content workflow
Description:
Reasons, SLAs, takedown audit
12.2.2.1. [Subtask] - Reasons, SLAs, takedown audit
Description:
• Reasons
• SLAs
Takedown audit
12.3. [User Story] - Media Handling
As a customer, I want safe media handling so that uploads don't expose me or others.
Acceptance Criteria:
EXIF stripping, size limits, and safety checks are applied to uploads.
Image processing and virus scanning occur before publish.
Non-compliant media is rejected with clear error messages.
12.3.1. [Task] - Implement EXIF stripping, size limits, and safety
Description:
Image processing and AV scanning

12.3.1.1. [Subtask] - Image processing and AV scanning

Description:

- Image processing
- AV scanning

13. [Feature] - Subscriptions, Loyalty & Referrals

Description: Drive retention via subscription billing, loyalty points, and referrals with fraud checks.

Acceptance Criteria:

- Subscription create/pause/resume/cancel with scheduler; provider reconciliation in place.
- Loyalty accrual/redeem rules persisted and displayed to users.
- Referral links generate attribution; fraud heuristics applied to block abuse.
- Churn and dunning outcomes tracked.

13.1. [User Story] - Subscription Lifecycle

As a subscriber, I want to manage my subscription so that billing happens on my terms.

Acceptance Criteria:

- Create/pause/resume/cancel supported with a reliable billing scheduler.
- Provider webhook reconciliation keeps subscription state accurate.
- Upcoming charges and changes are communicated proactively.

13.1.1. [Task] - Implement subscription create/pause/resume/cancel; billing scheduler

Provider webhook reconciliation
13.1.1.1. [Subtask] - Provider webhook reconciliation
Description:
Provider webhook reconciliation
13.2. [User Story] - Loyalty & Referrals
As a customer, I want loyalty points and referrals so that I'm rewarded for engagement.
Acceptance Criteria:
Referral links generate attribution; fraud checks block abuse.
Points accrual/redeem rules are persisted and visible in UI.
Suspicious activity is detected and prevented.
13.2.1. [Task] - Implement referral link generation and attribution
Description:
Fraud checks (device/IP/email heuristics)
13.2.1.1. [Subtask] - Fraud checks (device/IP/email heuristics)
Description:
Fraud checks (device/IP/email heuristics)

14. [Feature] - Web Frontend (React/Next.js)

Description: Ship an accessible, SEO-friendly Next.js storefront with core shopping flows.

Acceptance Criteria:

- App shell, routing, and error boundaries implemented; base i18n (en-IN) configured.
- Design system components meet WCAG AA; focus and keyboard navigation verified.
- PLP, PDP, Cart, Checkout, and Account pages function end-to-end.
- Core Web Vitals budgets monitored; image optimization and code-splitting in place.
- Sitemaps, robots.txt, canonical URLs, and structured data configured.

14.1. [User Story] - App Shell & Routing

As a shopper, I want a fast, accessible storefront so that I can browse and buy smoothly.

Acceptance Criteria:

- Next.js app shell/routing works with error boundaries and i18n baseline.
- Core pages load within performance budgets; SEO basics configured.
- Accessibility checks pass on core navigations.

14.1.1. [Task] - Implement Next.js app with SSR/SSG where applicable

Description:

Layouts, error boundaries, i18n baseline (en-IN)

14.1.1.1. [Subtask] - Layouts, error boundaries, i18n baseline (en-IN)

- Layouts
- Error boundaries

I18n baseline (en-IN)

14.2. [User Story] - Design System

As a designer/developer, I want a reusable design system so that UI is consistent and accessible.

Acceptance Criteria:

- Tokens, theming, and core components meet WCAG AA.
- Keyboard focus states and semantics are verified.
- Components are adopted across pages and documented.

14.2.1. [Task] - Implement UI tokens, theming, and components (buttons, cards, inputs, modals, nav)

Description:

• Accessibility-first (WCAG AA), keyboard focus states

14.2.1.1. [Subtask] - Accessibility-first (WCAG AA), keyboard focus states

Description:

- Accessibility-first (WCAG AA)
- Keyboard focus states

14.3. [User Story] - Core Pages

As a shopper, I want core shopping pages to be complete so that I can discover, evaluate, and purchase without friction.

Acceptance Criteria:

• PLP supports facets/sort with responsive grid and skeleton loaders.

PDP includes gallery, sourcing block, and required structured data.
Cart/Checkout flows cover address, shipping, and payment steps end-to-end.
3.1. [Task] - Implement PLP with facets and sort
scription:
Responsive grid and skeleton loaders
3.1.1. [Subtask] - Responsive grid and skeleton loaders
scription:
Responsive grid
Skeleton loaders
3.2. [Task] - Implement PDP with gallery and sourcing block
scription:
JSON-LD Product and Breadcrumb
3.2.1. [Subtask] - JSON-LD Product and Breadcrumb
scription:
JSON-LD Product
Breadcrumb
3.3. [Task] - Implement cart and checkout flows
scription:
Address, shipping, payment steps

14.3.3.1. [Subtask] - Address, shipping, payment steps

Description:
• Address
• Shipping
Payment steps
14.3.4. [Task] - Implement account pages (orders, addresses, returns)
Description:
Implement account pages (orders
• Addresses
Returns)
14.4. [User Story] - Performance & SEO
As a shopper, I want fast pages and clear search results so that I can find and complete purchases easily.
Acceptance Criteria:
Image optimization, prefetching, and code splitting meet Core Web Vitals budgets.
Sitemaps, robots.txt, canonical URLs are present and correct.
Structured data (Article, FAQ, Organization) validates without errors.
14.4.1. [Task] - Implement image optimization (AVIF/WebP), prefetching, and code splitting
Description:
Core Web Vitals budgets and monitoring

14.4.1.1. [Subtask] - Core Web Vitals budgets and monitoring

Description:

- Core Web Vitals budgets
- Monitoring

14.4.2. [Task] - Implement sitemaps, robots.txt, and canonical URLs

Description:

• Structured data (Article, FAQ, Organization)

14.4.2.1. [Subtask] - Structured data (Article, FAQ, Organization)

Description:

- Structured data (Article
- FAQ
- Organization)

15. [Feature] - Analytics & Telemetry

Description: Standardize event tracking, pipeline, alerts, and experimentation for data-driven decisions.

Acceptance Criteria:

- Event taxonomy defined; SDK wrappers implemented with consistent IDs and timestamps.
- ETL to warehouse operational; dbt models apply consent/retention filters.
- Alerts for checkout CR dip, payment failures, and LCP breaches notify Slack/webhook.
- Feature flags with deterministic bucketing and exposure events; holdouts supported.

KPI dashboards available to stakeholders.

15.1. [User Story] - Event Taxonomy & SDKs

As a product analyst/engineer, I want a clear event taxonomy and SDKs so that analytics are consistent and trustworthy across platforms.

Acceptance Criteria:

- Events are defined with stable names, IDs, and timestamps; wrappers exist on web and server.
- Context (user/session/device) is consistent; PII handling follows policy.
- QA checklist and sample payloads validate event correctness.

15.1.1. [Task] - Define events (view_item, add_to_cart, begin_checkout, purchase, subscribe, refund_initiated, search, view_article)

Description:

Implement wrappers on web and server; consistent ids and timestamps

15.1.1.1. [Subtask] - Implement wrappers on web and server; consistent ids and timestamps

Description:

- Implement wrappers on web and server
- Consistent ids and timestamps

15.2. [User Story] - Data Pipeline & Dashboards

As a business stakeholder, I want reliable dashboards so that I can track KPIs and catch regressions.

Acceptance Criteria:

ETL to the warehouse is operational; dbt models apply consent/retention filters.

- Alerts exist for checkout CR dip, payment failure rate, and LCP breaches.
- KPI dashboards are available with documented refresh cadence.

15.2.1. [Task] - Implement ETL to warehouse and BI

Description:

• dbt models; retention and consent filters

15.2.1.1. [Subtask] - dbt models; retention and consent filters

Description:

- Dbt models
- · Retention and consent filters

15.2.2. [Task] - Configure alerts

Description:

Checkout CR dip > 20%, payment failure > 2%, LCP > 3s

15.2.2.1. [Subtask] - Checkout CR dip > 20%, payment failure > 2%, LCP > 3s

Description:

- Checkout CR dip > 20%
- Payment failure > 2%
- LCP > 3s

15.3. [User Story] - Experimentation & Feature Flags

As a product manager, I want experimentation and feature flags so that we can ship safely and learn what works.

Acceptance Criteria:
Deterministic bucketing with exposure events and holdouts is implemented.
A/B test lifecycle includes hypothesis, guardrails, rollout/rollback.
Analysis and governance rules are defined and documented.
15.3.1. [Task] - Implement feature flag SDK and bucketing
Description:
Deterministic assignment; exposure events and holdouts
15.3.1.1. [Subtask] - Deterministic assignment; exposure events and holdouts
Description:
Deterministic assignment
Exposure events and holdouts
15.3.2. [Task] - Define A/B test lifecycle
Description:
Hypothesis, guardrails, rollout/rollback procedures
15.3.2.1. [Subtask] - Hypothesis, guardrails, rollout/rollback procedures
Description:
Hypothesis
Guardrails

Generated 2025-10-14 10:15

Rollout/rollback procedures

15.3.3. [Task] - Define analysis and governance

Description:

Segmentation and stats checks; archive of results

15.3.3.1. [Subtask] - Segmentation and stats checks; archive of results

Description:

- · Segmentation and stats checks
- Archive of results

16. [Feature] - Notifications & Communications

Description: Deliver transactional and lifecycle communications across email, push, and SMS with preferences.

Acceptance Criteria:

- Transactional email templates built and localized; rendered correctly on major clients.
- Push/SMS set up for key events with user preferences and quiet hours.
- In-app notification center shows categorized messages with deep links.
- Delivery orchestration handles de-duplication and channel failover.

16.1. [User Story] - Email & Templates

As a customer, I want clear transactional emails so that I'm informed about my orders.

Acceptance Criteria:

- Templates exist for order confirmation, shipping, and refund; localized where needed.
- Previews render correctly on major clients and devices.

Links deep link into app/web where applicable.
16.1.1. [Task] - Build transactional emails (order confirmation, shipping, refund)
Description:
Template system and localization hooks
16.1.1.1. [Subtask] - Template system and localization hooks
Description:
Template system
Localization hooks
16.2. [User Story] - Push & SMS
16.2. [User Story] - Push & SMS As a customer, I want timely push/SMS notifications so that I don't miss important updates.
As a customer, I want timely push/SMS notifications so that I don't miss important updates.
As a customer, I want timely push/SMS notifications so that I don't miss important updates. Acceptance Criteria: Topics are configured for orders/content/offers; preferences and consent respected with quiet
As a customer, I want timely push/SMS notifications so that I don't miss important updates. Acceptance Criteria: Topics are configured for orders/content/offers; preferences and consent respected with quiet hours.
As a customer, I want timely push/SMS notifications so that I don't miss important updates. Acceptance Criteria: Topics are configured for orders/content/offers; preferences and consent respected with quiet hours. Delivery metrics are tracked; graceful fallbacks exist.

16.2.1.1. [Subtask] - Preferences and consent toggles

Preferences and consent toggles

Description:
• Preferences
Consent toggles
16.3. [User Story] - Notifications Center
As a customer, I want an in-app notification center so that I can see and manage messages.
Acceptance Criteria:
Unified inbox shows read/unread status, categories, and deep links.
Preferences and digests support quiet hours and batching.
De-duplication and channel failover orchestrate delivery across push/email/SMS.
16.3.1. [Task] - Build unified in-app inbox (web/mobile)
Description:
Read/unread, categories, deep links
16.3.1.1. [Subtask] - Read/unread, categories, deep links
Description:
Read/unread
Read/unreadCategories
• Categories
CategoriesDeep links

16.3.2.1. [Subtask] - Per-channel/topic; quiet hours and batching Description: Per-channel/topic Quiet hours and batching 16.3.3. [Task] - Implement delivery orchestration Description: De-duplication and channel failover (push/email/SMS) 16.3.3.1. [Subtask] - De-duplication and channel failover (push/email/SMS) Description: De-duplication Channel failover (push/email/SMS) 16.4. [User Story] - India DLT & Templates As a compliance owner, I want registered sender IDs and templates so that SMS is compliant in India. Acceptance Criteria: Sender IDs and templates are registered and mapped to events. Compliance logs are retained for audits and reconciliations. Failures surface with actionable error messages. 16.4.1. [Task] - Register sender IDs and templates

Map events to DLT templates; compliance logs

16.4.1.1. [Subtask] - Map events to DLT templates; compliance logs

Description:

- Map events to DLT templates
- Compliance logs

16.5. [User Story] - WhatsApp Business & Routing

As a customer, I want WhatsApp notifications where I've opted in so that I receive updates on my preferred channel.

Acceptance Criteria:

- WhatsApp templates are configured for key events; opt-in is respected.
- Fallback to SMS/email occurs when WhatsApp fails or is unavailable.
- Quiet hours and preferences are enforced across channels.

16.5.1. [Task] - Implement WhatsApp notifications for key events

Description:

Fallback to SMS/email; opt-in and quiet hours

16.5.1.1. [Subtask] - Fallback to SMS/email; opt-in and quiet hours

- Fallback to SMS/email
- Opt-in and quiet hours

17. [Feature] - Support & Help Center

Description: Provide self-serve help content and real-time chat with escalation and CSAT collection.

Acceptance Criteria:

- CMS-driven help center with categories, search, and article feedback.
- Chat widget integrated with ticketing; escalation rules enforced; CSAT captured.
- SLAs and first-response times visible to support leads.
- Content management roles and workflow defined.

17.1. [User Story] - Help Center

As a customer, I want a self-serve help center so that I can resolve common issues quickly without waiting for an agent.

Acceptance Criteria:

- CMS-driven articles support categories, search, and feedback.
- Editorial workflow supports preview and publish with versioning.
- Article helpfulness is tracked for continuous improvement.

17.1.1. [Task] - Build CMS-driven articles and categories

Description:

Search and feedback on articles

17.1.1.1. [Subtask] - Search and feedback on articles

- Search
- Feedback on articles

17.2. [User Story] - Chat & Escalation

As a customer, I want real-time chat that escalates when needed so that I get timely help.

Acceptance Criteria:

- Chat integrates with ticketing; escalation rules and SLAs are enforced.
- CSAT survey is captured after resolution.
- Transcripts are attached to tickets for context.

17.2.1. [Task] - Integrate chat widget and ticketing

Description:

Escalation rules and CSAT survey

17.2.1.1. [Subtask] - Escalation rules and CSAT survey

Description:

- Escalation rules
- CSAT survey

18. [Feature] - Reliability & SRE Operations

Description: Define SLOs, cost guardrails, DR, and automation to maintain reliable operations.

Acceptance Criteria:

- SLOs and error budgets defined per service with dashboards.
- DR plan with RPO/RTO targets; cross-region DR strategy; quarterly drills executed.
- Cost budgets, anomaly alerts, and allocation tagging in place; monthly review.
- Automated runbooks for common incidents; ChatOps triggers and approvals.
- Blameless postmortems with action items tracked to closure.

18.1. [User Story] - SLOs & Runbooks

As an SRE, I want clear SLOs and runbooks so that incidents are prevented or resolved quickly.

Acceptance Criteria:

- SLOs for uptime, latency, and errors are defined with dashboards.
- Error budget policy is documented and enforced.
- Runbooks exist for top incidents with paging and ownership.

18.1.1. [Task] - Define SLOs for uptime, latency, errors

Description:

Error budget policy and dashboards

18.1.1.1. [Subtask] - Error budget policy and dashboards

Description:

- Error budget policy
- Dashboards

18.2. [User Story] - DR & Backups

As an operations owner, I want DR and backups so that we can recover from failures.

Acceptance Criteria:

- RPO/RTO targets are defined; snapshots and cross-region read replica plan exist.
- Quarterly restore and failover drills are executed and documented.
- Backup failures trigger alerts and are remediated.

18.2.1. [Task] - Define RPO/RTO targets, snapshots, and cross-region read replica plan

Description:

· Quarterly restore and failover drills

18.2.1.1. [Subtask] - Quarterly restore and failover drills

Description:

- Quarterly restore
- Failover drills

18.3. [User Story] - Cost Guardrails & FinOps

As a finance/ops owner, I want cost guardrails so that spend stays under control.

Acceptance Criteria:

- Budgets and anomaly alerts are set; per-service cost allocation uses tags/accounts.
- Dashboards show unit economics KPIs for monthly reviews.
- Review outcomes produce cost actions tracked to closure.

18.3.1. [Task] - Configure budgets and anomaly alerts

Description:

Per-service cost allocation via tags and accounts

18.3.1.1. [Subtask] - Per-service cost allocation via tags and accounts Description: Per-service cost allocation via tags Accounts 18.3.2. [Task] - Create dashboards and reports Description: Unit economics KPIs; monthly reviews and actions 18.3.2.1. [Subtask] - Unit economics KPIs; monthly reviews and actions Description: Unit economics KPIs Monthly reviews and actions 18.4. [User Story] - Incident Automation As an SRE, I want automated runbooks so that common failures are remediated quickly. Acceptance Criteria: Auto-remediation playbooks trigger via ChatOps with approvals. Post-incident reviews are blameless; action items tracked to closure. MTTR trends improve and are reported. 18.4.1. [Task] - Automate runbooks for common failures Description:

_	Auto-remediation	nlavhooks:	ChatOns triggers	and approvals
•	Auto-remediation	piaybooks,	ChalOps inggers	and approvais

18.4.1.1. [Subtask] - Auto-remediation playbooks; ChatOps triggers and approvals

Description:

- Auto-remediation playbooks
- ChatOps triggers and approvals

18.4.2. [Task] - Conduct post-incident follow-ups

Description:

• Blameless postmortems; action items tracked to closure

18.4.2.1. [Subtask] - Blameless postmortems; action items tracked to closure

Description:

- Blameless postmortems
- · Action items tracked to closure

19. [Feature] - Content & CMS

Description: Power the Learn Hub with a flexible content model, webhooks, and SEO-friendly templates.

Acceptance Criteria:

- Article/ritual/glossary types defined and rendered; preview flows supported.
- Webhook ingestion triggers cache invalidation; content publishes within seconds.

- SEO pillar page templates shipped with internal linking.
- Role-based editorial permissions configured in CMS.

19.1. [User Story] - Learn Hub CMS Integration

As a content editor, I want flexible content types and fast publish so that Learn Hub stays fresh and finds an audience.

Acceptance Criteria:

- Article/ritual/glossary types render with preview flows.
- Webhook ingestion triggers cache invalidation within seconds.
- SEO pillar templates support internal linking and metadata.

19.1.1. [Task] - Implement article, ritual, and glossary types and rendering

Description:

- Webhook ingestion and cache invalidation
- SEO pillar pages templates and internal linking

19.1.1.1. [Subtask] - Webhook ingestion and cache invalidation

Description:

- Webhook ingestion
- Cache invalidation

19.1.1.2. [Subtask] - SEO pillar pages templates and internal linking

Description:

SEO pillar pages templates

Internal linking

20. [Feature] - Governance & Quality

Description: Enforce quality gates and versioned releases with clear changelogs and test strategy.

Acceptance Criteria:

- Unit/integration/e2e tests cover critical paths to agreed thresholds.
- Semantic versioning and automated changelog generation in CI.
- Release notes produced and distributed each release; rollback procedure documented.
- CI blocks merges when quality gates fail.

20.1. [User Story] - Testing Strategy

As a QA lead, I want a clear testing strategy so that critical paths are protected from regressions.

Acceptance Criteria:

- Unit/integration/e2e tests meet agreed thresholds for critical paths.
- Factories and fixtures provide reliable test data.
- CI blocks merges when quality gates fail.

20.1.1. [Task] - Implement unit tests (critical paths \geq 80%), integration (API), and e2e (checkout smoke)

Description:

• Test data factories and fixtures

20.1.1.1. [Subtask] - Test data factories and fixtures

Test data factories

Description:

Fixtures

20.2. [User Story] - Release & Versioning
As a release manager, I want versioned releases with changelogs so that deployments are traceable and reversible.
Acceptance Criteria:
Semantic versioning and automated changelog generation run in CI.
Release notes are produced and distributed each release.
Rollback procedure is documented and verified.
20.2.1. [Task] - Implement semantic versioning and changelog automation
Description:
Release notes template and distribution
20.2.1.1. [Subtask] - Release notes template and distribution
Description:
Release notes template
• Distribution
21. [Feature] - Mobile App (React Native)

Description: Deliver a performant RN app with core shopping flows, push, deep linking, and store readiness.

Acceptance Criteria:

- App boots with navigation/theming; icons/splash configured; env handling works.
- Onboarding variants functional; deep links route correctly; completion state persists.
- PLP, PDP, cart, and checkout screens operate end-to-end.
- Push notifications and deep linking integrated; performance metrics tracked with alerts.
- Store listings prepared; staged rollout configured; crash-free > 99.5%, ANR ≤ 0.3%, cold start ≤ 2.5s.

21.1. [User Story] - React Native Bootstrap

As a mobile developer, I want a bootstrapped RN app so that we can build features quickly.

Acceptance Criteria:

- apps/mobile package has TS/ESLint/Prettier, navigation, theming, and env handling.
- Native modules are configured; icons/splash set up.
- App boots on Android/iOS with dev builds.

21.1.1. [Task] - Create apps/mobile package with TS, ESLint, Prettier

Description:

- Configure navigation (React Navigation), theming, env handling
- Set up native modules config (Android/iOS), app icons/splash

21.1.1.1. [Subtask] - Configure navigation (React Navigation), theming, env handling

Description:

•	Configure navigation (React Navigation)
•	Theming
•	Env handling
21.1	.1.2. [Subtask] - Set up native modules config (Android/iOS), app icons/splash
Des	cription:
•	Set up native modules config (Android/iOS)
•	App icons/splash
21.	2. [User Story] - Onboarding & Navigation
As a	a mobile user, I want a smooth onboarding and clear navigation so that I can explore the appily.
Acc	eptance Criteria:
•	Onboarding variants work and completion state persists across sessions.
•	Deep links route correctly to target screens.
•	Tab/stack navigation structure implemented with back behavior defined.
21.2	2.1. [Task] - Build onboarding screens with variant flags (education-first/quick-start)
Des	cription:
•	Persist onboarding completion; deep link routing
21.2	2.1.1. [Subtask] - Persist onboarding completion; deep link routing
Des	cription:
•	Persist onboarding completion

Deep link routing

21.2.2. [Task] - Implement tab/stack structure (Home, Shop, Learn, Account, Cart)

Description:

- Implement tab/stack structure (Home
- Shop
- Learn

21.3. [User Story] - Mobile Catalog & PDP

As a mobile shopper, I want performant PLP/PDP so that shopping feels native and responsive.

Acceptance Criteria:

- PLP supports facets/sort and infinite scroll with skeletons and empty states.
- PDP includes gallery, energy tags, origin/certification, share/wishlist/related.
- Performance meets mobile budgets on low-end devices.

21.3.1. [Task] - Implement PLP with facets/sort and infinite scroll

Description:

Facet drawer UX, skeletons, empty state

21.3.1.1. [Subtask] - Facet drawer UX, skeletons, empty state

Description:

- Facet drawer UX
- Skeletons
- Empty state

21.3.2. [Task] - Implement PDP with gallery, energy tags, and origin/certification
Description:
Share, wishlist, related products modules
21.3.2.1. [Subtask] - Share, wishlist, related products modules
Description:
• Share
• Wishlist
Related products modules
21.4. [User Story] - Mobile Cart & Checkout
As a mobile shopper, I want end-to-end cart and checkout so that I can buy in-app.
Acceptance Criteria:
Cart screens show items, totals, and coupons; persisted securely and merge-on-login.
Checkout integrates payment SDKs and handles success/failure callbacks.
Errors are recoverable and status is visible to the user.
21.4.1. [Task] - Build cart screens (items, totals, coupons)
Description:
Persist cart securely (async storage) and merge-on-login
21.4.1.1. [Subtask] - Persist cart securely (async storage) and merge-on-login
Description:

Persist cart securely (async storage)Merge-on-login

21.4.2. [Task] - Build checkout flow (address, shipping, payment)

Description:

• Integrate Razorpay/Stripe RN SDKs; handle success/failure callbacks

21.4.2.1. [Subtask] - Integrate Razorpay/Stripe RN SDKs; handle success/failure callbacks

Description:

- Integrate Razorpay/Stripe RN SDKs
- Handle success/failure callbacks

21.5. [User Story] - Push, Deep Links, and Device Metrics

As a mobile user, I want relevant push and deep links so that I return to the right place quickly.

Acceptance Criteria:

- Permission prompts include a value proposition; topic subscriptions are configured.
- Deep links/universal links route correctly on cold and warm starts.
- Device performance metrics are tracked with alerts.

21.5.1. [Task] - Implement push notifications (orders, content, offers)

Description:

Permission prompts with value proposition; topic subscriptions

21.5.1.1. [Subtask] - Permission prompts with value proposition; topic subscriptions

Description:
Permission prompts with value proposition
Topic subscriptions
21.5.2. [Task] - Implement deep links and universal/app links
Description:
Cold/warm start routing tests
21.5.2.1. [Subtask] - Cold/warm start routing tests
Description:
Cold/warm start routing tests
21.6. [User Story] - Store Readiness & Compliance
21.6. [User Story] - Store Readiness & Compliance As a release manager, I want store readiness tasks complete so that approvals go smoothly.
As a release manager, I want store readiness tasks complete so that approvals go smoothly.
As a release manager, I want store readiness tasks complete so that approvals go smoothly. Acceptance Criteria:
As a release manager, I want store readiness tasks complete so that approvals go smoothly. Acceptance Criteria: • Device QA and performance targets met (crash-free > 99.5%, ANR \leq 0.3%, cold start \leq 2.5s).
 As a release manager, I want store readiness tasks complete so that approvals go smoothly. Acceptance Criteria: Device QA and performance targets met (crash-free > 99.5%, ANR ≤ 0.3%, cold start ≤ 2.5s). Store listings and release pipelines are configured for staged rollout.
As a release manager, I want store readiness tasks complete so that approvals go smoothly. Acceptance Criteria: Device QA and performance targets met (crash-free > 99.5%, ANR ≤ 0.3%, cold start ≤ 2.5s). Store listings and release pipelines are configured for staged rollout. Post-release monitoring is in place with alerting. 21.6.1. [Task] - Perform device matrix QA (Android 8–14, iOS 15+); meet performance

21.6.1.1. [Subtask] - Crash-free > 99.5%, ANR \leq 0.3%, cold start \leq 2.5s

Description:

- Crash-free > 99.5%
- ANR ≤ 0.3%
- Cold start ≤ 2.5s

21.6.2. [Task] - Prepare App Store/Play listings and release pipeline

Description:

TestFlight/Play internal tracks; staged rollout and monitoring

21.6.2.1. [Subtask] - TestFlight/Play internal tracks; staged rollout and monitoring

Description:

- TestFlight/Play internal tracks
- Staged rollout and monitoring

22. [Feature] - Admin Portal & Backoffice

Description: Equip staff with secure tools to manage catalog, inventory, orders/returns, and promotions.

Acceptance Criteria:

- RBAC with audit logs on admin actions; permission checks enforced server-side.
- Catalog CRUD and bulk import with validation and preview.
- Inventory adjustments/reservations tracked; stock alerts generated.
- Order ops supports status changes, refund approvals, and finance exports.

22.1. [User Story] - RBAC & Audit

As an admin, I want RBAC and audit so that staff actions are controlled and traceable.

Acceptance Criteria:

- Roles/scopes and permissions enforced server-side for admin actions.
- Audit logs capture who/what/when with immutable storage.
- Permission checks are validated with tests.

22.1.1. [Task] - Implement roles/scopes (staff, admin) and permissions

Description:

• API guard middleware; audit logs for admin actions

22.1.1.1. [Subtask] - API guard middleware; audit logs for admin actions

Description:

- API guard middleware
- Audit logs for admin actions

22.2. [User Story] - Catalog Management

As a catalog manager, I want to manage products so that the catalog stays accurate and fresh.

Acceptance Criteria:

- Product/variant/pricing/collections CRUD with validation and preview.
- Bulk CSV upload validates and provides a preview before publish.
- Publish workflow and versioning are documented.

22.2.1. [Task] - Implement product CRUD, variants, pricing, and collections

Description:
Bulk upload (CSV) and validation; preview before publish
22.2.1.1. [Subtask] - Bulk upload (CSV) and validation; preview before publish
Description:
Bulk upload (CSV) and validation
Preview before publish
22.3. [User Story] - Inventory & Fulfillment
As an operations manager, I want inventory tools so that stock levels remain accurate and actionable.
Acceptance Criteria:
Inventory adjustments and reservations are supported with audit.
Stock thresholds and alerts notify when levels dip.
Ops views support quick corrections and exports.
22.3.1. [Task] - Implement inventory adjustments and reservations
Description:
Stock thresholds and alerts
22.3.1.1. [Subtask] - Stock thresholds and alerts
Description:
Stock thresholds

Alerts

22.4. [User Story] - Orders & Returns Ops

As a support agent, I want order ops tools so that I can resolve customer requests efficiently.

Acceptance Criteria:

- Order search, status updates, and refunds/RMA approvals are available with permission checks.
- Each order shows a notes/timeline for context.
- Refund exports (CSV) exist for finance reconciliation.

22.4.1. [Task] - Implement order search, status updates, and refunds/RMA approvals

Description:

- Notes/timeline per order; permission checks
- Refunds export (CSV) for finance reconciliation

22.4.1.1. [Subtask] - Notes/timeline per order; permission checks

Description:

- Notes/timeline per order
- Permission checks

22.4.1.2. [Subtask] - Refunds export (CSV) for finance reconciliation

Description:

Refunds export (CSV) for finance reconciliation

22.5. [User Story] - Promotions & Coupons

As a marketer	Lucat to areate and central	promotions so that	compoiane con run o	ofoly
As a marketer,	I want to create and control	טוטווטווטווס של נוומנ	Campaigns Cam rum S	aitiy.

Acceptance Criteria:

- Create/disable coupons with stacking and eligibility rules.
- Limits and schedules are enforced; misuse prevented.
- Audit trail exists for all changes.

22.5.1. [Task] - Implement create/disable coupons, rules, and limits

Description:

· Stacking rules and eligibility conditions

22.5.1.1. [Subtask] - Stacking rules and eligibility conditions

Description:

- Stacking rules
- Eligibility conditions

22.6. [User Story] - Reviews Moderation

As a moderator, I want a reviews queue so that policy-violating content is handled quickly.

Acceptance Criteria:

- Moderation queue supports approve/reject with reasons; media review workflow.
- Policy enforcement and takedowns are audited.
- SLAs exist for response times.

22.6.1. [Task] - Implement queue with approve/reject (reasons) and policy enforcement

Description:
Media review and takedown workflow
22.6.1.1. [Subtask] - Media review and takedown workflow
Description:
Media review
Takedown workflow
22.7. [User Story] - Customer Support Tools
As a support agent, I want customer tools so that I can look up and assist users securely.
Acceptance Criteria:
Customer search and impersonation available with consent banner.
All actions are audited and permission-checked.
Sensitive data views are gated.
22.7.1. [Task] - Implement customer search and impersonation
Description:
Audit logs; impersonation consent banner
22.7.1.1. [Subtask] - Audit logs; impersonation consent banner
Description:
Audit logs
Impersonation consent banner

22.8. [User Story] - Fraud Review Queue

As a risk analyst, I want a manual review queue so that risky orders are handled with consistent decisions.

Acceptance Criteria:

- Queue supports approve/hold/cancel with notes and SLAs.
- Decisions integrate with order state and notifications.
- · Metrics track hit rates and outcomes.

22.8.1. [Task] - Implement manual review for risky orders

Description:

Decisions (approve/hold/cancel); notes and SLAs

22.8.1.1. [Subtask] - Decisions (approve/hold/cancel); notes and SLAs

Description:

- Decisions (approve/hold/cancel)
- Notes and SLAs

22.9. [User Story] - Bulk Operations

As an operator, I want bulk updates so that large changes are safe and efficient.

Acceptance Criteria:

- Bulk price/inventory updates via CSV with validation and preview.
- Rollback or correction flow exists for mistakes.
- Audit and notifications for bulk jobs.

22.9.1. [Task] - Implement bulk price/inventory updates Description: CSV upload with validation; preview + rollback 22.9.1.1. [Subtask] - CSV upload with validation; preview + rollback Description: CSV upload with validation Preview + rollback 22.10. [User Story] - Feature Flags & Toggles As an admin, I want to manage feature flags so that we can control rollouts across audiences. Acceptance Criteria: Admin UI controls flags with targeting rules and approvals. Changes are audited; server-side enforcement is authoritative. Safety checks prevent locking out critical paths. 22.10.1. [Task] - Implement admin control of flags Description: Targeting rules; audit and approvals 22.10.1.1. [Subtask] - Targeting rules; audit and approvals Description: Targeting rules

Audit and approvals

23. [Feature] - Tax & Invoicing (India GST)

Description: Comply with Indian GST for pricing, invoices, and reporting; prepare for cross-border duties.

Acceptance Criteria:

- GST rates applied by HSN and destination; HSN tables maintained.
- GSTIN capture/validation (B2B); invoice numbering scheme defined; PDFs generated and stored.
- Tax summary reports exportable for filing with audit trails.
- Cross-border landed cost and compliance document generation supported.

23.1. [User Story] - GST Tax Calculation

As a finance owner, I want correct GST calculation so that invoices and prices comply with law.

Acceptance Criteria:

- GST rates are applied by HSN and destination with maintained tables.
- Price components and tax breakdowns are visible and correct.
- Edge cases (exempt/zero-rated) are handled.

23.1.1. [Task] - Apply GST rates by HSN and destination

Description:

Maintain HSN catalog and rate tables

23.1.1.1. [Subtask] - Maintain HSN catalog and rate tables

Description:

- Maintain HSN catalog
- Rate tables

23.2. [User Story] - Invoices & GSTIN

As a business customer, I want valid tax invoices so that I can claim input credit.

Acceptance Criteria:

- GSTIN capture/validation (B2B) and invoice numbering scheme are enforced.
- PDF invoices are generated, emailed, and stored for download.
- Invoice data is searchable and auditable.

23.2.1. [Task] - Capture GSTIN (B2B), validate formats; define invoice numbering scheme

Description:

Generate PDF invoices; email to customer; store for download

23.2.1.1. [Subtask] - Generate PDF invoices; email to customer; store for download

Description:

- Generate PDF invoices
- Email to customer
- Store for download

23.3. [User Story] - Reports & Reconciliation

As a finance owner, I want tax reports so that monthly filing and reconciliation are straightforward.

Acceptance Criteria:
Tax summary reports by period are exportable (CSV) with audit trail.
Filters for B2B/B2C and tax categories exist.
Data matches ledger records.
23.3.1. [Task] - Generate tax summary reports by period
Description:
Export CSV for filing and audit trail
23.3.1.1. [Subtask] - Export CSV for filing and audit trail
Description:
Export CSV for filing
Audit trail
23.4. [User Story] - Cross-border Duties & Taxes
As a cross-border ops owner, I want landed cost and compliance docs so that international orders clear smoothly.
Acceptance Criteria:
Landed cost estimates use HS codes, duties, and VAT with provider fallback.
Commercial invoice and customs declarations are generated when required.
Region-specific rules are documented and enforced.
23.4.1. [Task] - Implement landed cost estimation (HS codes, duties, VAT)

Description:

• Provider integration and fallback rate tables

23.4.1.1. [Subtask] - Provider integration and fallback rate tables

Description:

- Provider integration
- Fallback rate tables

23.4.2. [Task] - Generate compliance documents

Description:

Commercial invoice and customs declarations

23.4.2.1. [Subtask] - Commercial invoice and customs declarations

Description:

- Commercial invoice
- Customs declarations

23.5. [User Story] - Rounding & Labels

As a shopper, I want clear tax-inclusive pricing so that I understand what I'll pay.

Acceptance Criteria:

- India rounding policies and GST labels are applied consistently.
- MRP/compare-at display adheres to Indian guidelines.
- SEO and UX reflect inclusive/exclusive tax notes appropriately.

23.5.1. [Task] - Implement India rounding policies and GST labels

Description:

MRP/compare-at display with GST notes
23.5.1.1. [Subtask] - MRP/compare-at display with GST notes
Description:
MRP/compare-at display with GST notes
23.6. [User Story] - GST Filing Exports
As a finance owner, I want filing exports so that GST submissions are accurate and timely.
Acceptance Criteria:
GSTR-1/3B exports include required fields with period selection.
CSV exports have an audit trail and integrity checks.
Reconciliation notes can be attached.
23.6.1. [Task] - Generate GSTR-1/3B exports
Description:
Period selection; CSV with audit trail
23.6.1.1. [Subtask] - Period selection; CSV with audit trail
Description:
Period selection
CSV with audit trail
23.7. [User Story] - TCS/TDS & COD Nuances

As a finance owner, I want TCS/TDS and COD nuances handled so that compliance and accounting remain correct.

Acceptance Criteria:

- TCS/TDS logic is applied where applicable with correct reporting.
- COD-specific tax reporting adjustments are implemented and tested.
- Documentation covers scenarios and thresholds.

23.7.1. [Task] - Implement TCS/TDS handling where applicable

Description:

• COD-specific tax reporting adjustments

23.7.1.1. [Subtask] - COD-specific tax reporting adjustments

Description:

COD-specific tax reporting adjustments

24. [Feature] - Shipping & Logistics Integration

Description: Integrate carriers for rates, labels, tracking, and exception handling, including international.

Acceptance Criteria:

- Aggregator integration for rate shopping, serviceability, pickups.
- Label generation and manifesting operational; tracking webhooks update orders.
- Exceptions (RTO/failed delivery) flows create tickets and customer comms.

International shipping pilot supports region restrictions and address validation.

24.1. [User Story] - Carrier Aggregator Integration

As an operations manager, I want carrier aggregator integration so that shipping is reliable and cost-effective.

Acceptance Criteria:

- Rate shopping, serviceability checks, and pickup scheduling work end-to-end.
- Errors and fallbacks are logged with alerts.
- Credentials and webhooks are secured and monitored.

24.1.1. [Task] - Integrate Shiprocket/Delhivery (or chosen partner)

Description:

Rate shopping, serviceability, pickup scheduling

24.1.1.1. [Subtask] - Rate shopping, serviceability, pickup scheduling

Description:

- Rate shopping
- Serviceability
- Pickup scheduling

24.2. [User Story] - Labels & Tracking

As a warehouse operator, I want easy label generation and tracking so that fulfillment is smooth.

Acceptance Criteria:

• Label generation and manifesting function reliably; reprints are supported.

- Tracking webhooks update orders and notify customers.
- Exceptions are visible in ops views.

24.2.1. [Task] - Implement label generation and manifesting

Description:

Tracking webhooks → order updates and notifications

24.2.1.1. [Subtask] - Tracking webhooks \rightarrow order updates and notifications

Description:

- Tracking webhooks → order updates
- Notifications

24.3. [User Story] - Exceptions Handling

As a support agent, I want exceptions workflows so that RTO/failed deliveries are handled promptly.

Acceptance Criteria:

- RTO/failed delivery flows create tickets and customer communications.
- Refund/Reship options are presented and tracked.
- SLAs are defined and monitored.

24.3.1. [Task] - Implement RTO/failed delivery flows and customer communications

Description:

Automatic ticket creation and refund/Reship options

24.3.1.1. [Subtask] - Automatic ticket creation and refund/Reship options

Description:
Automatic ticket creation
Refund/Reship options
24.4. [User Story] - International Shipping Pilot
As a cross-border ops owner, I want to pilot international shipping so that we can expand sales safely.
Acceptance Criteria:
Country/zone serviceability and carriers are configured with region restrictions.
International address validation and postal verification are integrated.
Cross-border returns flow and customer comms are defined.
24.4.1. [Task] - Configure country/zone serviceability and carriers
Description:
Region-based SKU restrictions and lead times
24.4.1.1. [Subtask] - Region-based SKU restrictions and lead times
Description:
Region-based SKU restrictions
Lead times
24.4.2. [Task] - Implement address validation (international formats)
Description:
Postal code and address verification APIs

24.4.2.1. [Subtask] - Postal code and address verification APIs Description: Postal code Address verification APIs 24.4.3. [Task] - Define cross-border returns and CX Description: RTO and refund SLAs; customer communications 24.4.3.1. [Subtask] - RTO and refund SLAs; customer communications Description: RTO and refund SLAs Customer communications 24.5. [User Story] - Packaging & DIM Weight As a warehouse operator, I want packaging rules so that rates reflect DIM weight accurately. Acceptance Criteria: Packaging rules and DIM calculations are applied with auto-boxing. Rate selection considers dimensional weight vs actual weight. Exceptions are logged for tuning.

24.5.1. [Task] - Implement packaging rules and DIM calculations

Description:

Auto-boxing and rate selection impact

24.5.1.1. [Subtask] - Auto-boxing and rate selection impact

Description:

- Auto-boxing
- Rate selection impact

24.6. [User Story] - NDR & Delivery Retries

As a support agent, I want NDR workflows so that delivery issues are resolved with minimal churn.

Acceptance Criteria:

- NDR workflows define retry attempts and RTO handling with notifications.
- Customer communications templates are localized and tracked.
- Outcomes feed into risk and carrier performance dashboards.

24.6.1. [Task] - Implement NDR workflows and customer communications

Description:

Retry attempts; return-to-origin handling

24.6.1.1. [Subtask] - Retry attempts; return-to-origin handling

Description:

- Retry attempts
- Return-to-origin handling

24.7. [User Story] - COD Remittance Tracking

As a finance owner, I want COD remittance tracking so that settlements reconcile correctly.

Acceptance Criteria:

- Expected vs received amounts are tracked with aging reports.
- Discrepancies trigger alerts and follow-up tasks.
- Exports support reconciliation with bank statements.

24.7.1. [Task] - Implement tracking for COD settlements and reconciliation

Description:

• Expected vs received; aging reports

24.7.1.1. [Subtask] - Expected vs received; aging reports

Description:

- Expected vs received
- Aging reports

24.8. [User Story] - Aggregator Failover

As an operations owner, I want aggregator failover so that shipments continue during provider outages.

Acceptance Criteria:

- Health-based routing switches providers automatically with alerts.
- Credentials and service mappings are maintained for alternates.
- Post-failover reconciliation is documented.

24.8.1. [Task] - Configure provider failover rules

Description:

Health-based routing and alerts

24.8.1.1. [Subtask] - Health-based routing and alerts

Description:

- Health-based routing
- Alerts

25. [Feature] - Media & CDN Pipeline

Description: Provide secure media uploads, derivatives, and global delivery with smart caching.

Acceptance Criteria:

- Signed uploads to S3; image variants generated via Lambda/CDN (AVIF/WebP).
- CloudFront caching strategy with invalidation hooks; cache keys vary by DPR/format.
- Safety pipeline scans uploads; quarantine and review workflow available.
- Access URLs are time-bound and least-privileged.

25.1. [User Story] - Uploads & Derivatives

As a content manager, I want secure uploads and responsive derivatives so that media looks great and loads fast.

Acceptance Criteria:

- Signed uploads to S3 use role-limited access with time-bound URLs.
- Image variants (AVIF/WebP) are generated and cached for thumb/PDP/zoom.

Access is least-privileged; unauthorized access is blocked.

25.1.1. [Task] - Implement signed uploads to S3 and image variants (thumb, PDP, zoom)

Description:

- Implement image transformation via Lambda/Image CDN.
- Support AVIF/WebP responsive variants.

25.1.1.1. [Subtask] - Implement image transformation via Lambda/Image CDN; support AVIF/WebP

Description:

- Implement image transformation via Lambda/Image CDN.
- Support AVIF/WebP responsive variants.

25.2. [User Story] - Caching & Invalidations

As a performance engineer, I want effective CDN caching so that media loads quickly without stale content.

Acceptance Criteria:

- CloudFront cache keys vary by DPR/format; hit/miss metrics tracked.
- Invalidation hooks fire on publish/update for affected paths only.
- Tuning decisions are informed by observability dashboards.

25.2.1. [Task] - Implement CloudFront caching strategy and invalidation hooks

Description:

- Configure cache keys to vary by device DPR.
- Configure cache keys to vary by image format (AVIF/WebP/JPEG).

25.2.1.1. [Subtask] - Configure cache keys by device DPR and format

Description:

- Configure cache keys to vary by device DPR.
- Configure cache keys to vary by image format (AVIF/WebP/JPEG).

25.3. [User Story] - Safety Pipeline

As a compliance owner, I want a safety pipeline for uploads so that harmful content is blocked.

Acceptance Criteria:

- Malware/virus scan and content-type validation run on upload.
- Quarantine bucket and review workflow handle flagged assets.
- Moderation decisions are audited with reasons.

25.3.1. [Task] - Implement malware scan and content-type validation for uploads

Description:

- Create quarantine bucket for flagged assets.
- Implement review workflow for quarantined assets.

25.3.1.1. [Subtask] - Set up quarantine bucket and review workflow

Description:

- Create quarantine bucket for flagged assets.
- Implement review workflow for quarantined assets.

26. [Feature] - Performance & Load Testing

Description: Validate performance budgets and scale under load with synthetic checks and alerts.

Acceptance Criteria:

- k6/Artillery scenarios hit targets (p95, concurrencies) for critical journeys.
- Lighthouse budgets enforced in CI (LCP ≤ 2.5s P75; JS ≤ 200KB gz critical path).
- Synthetic monitoring covers uptime/transactions from multiple regions with alert thresholds.
- Performance regressions block releases until resolved or waived.

26.1. [User Story] - API Load Tests

As an SRE, I want API load tests so that hot paths scale to targets.

Acceptance Criteria:

- k6/Artillery scenarios cover browse, PDP, and checkout with thresholds.
- Scripts and pass/fail thresholds run in CI; reports are archived.
- Bottlenecks and recommendations are documented per run.

26.1.1. [Task] - Create k6/Artillery scenarios for hot paths (browse, PDP, checkout)

Description:

Targets: p95 < 200ms cached reads; 5k concurrent users baseline

26.1.1.1. [Subtask] - Targets: p95 < 200ms cached reads; 5k concurrent users baseline

Description:

- Targets: p95 < 200ms cached reads
- 5k concurrent users baseline

26.2. [User Story] - Web Performance Budgets

As a frontend lead, I want performance budgets so that the site stays fast.

Acceptance Criteria:

- Lighthouse CI budgets are enforced; regressions trigger alerts.
- JS size budgets for the critical path are monitored in CI.
- PRs surface performance deltas for review.

26.2.1. [Task] - Enforce Lighthouse CI and budgets in CI

Description:

• LCP ≤ 2.5s P75; JS ≤ 200KB gz critical path

26.2.1.1. [Subtask] - LCP \leq 2.5s P75; JS \leq 200KB gz critical path

Description:

- LCP ≤ 2.5s P75
- JS ≤ 200KB gz critical path

26.3. [User Story] - Synthetic Monitoring

As an SRE, I want synthetic checks so that uptime and journeys are verified continuously.

- Uptime and transaction scripts run from multiple regions with alert thresholds.
- On-call rotation integration pages the right team.
- Incidents auto-create tickets with context for triage.

26.3.1. [Task] - Configure uptime and transaction checks from multiple regions

Description:

Alert thresholds and on-call rotation

26.3.1.1. [Subtask] - Alert thresholds and on-call rotation

Description:

- Alert thresholds
- On-call rotation

27. [Feature] - Mobile Crash & Performance Analytics

Description: Monitor app stability and performance to ensure store-readiness and user experience.

Acceptance Criteria:

- Crashlytics/Sentry integrated with symbol uploads and release versions.
- Cold start, TTI, memory, and ANR metrics tracked with dashboards and alerts.
- Crash-free sessions > 99.5% maintained; regression alarms configured.
- Triage and ownership for crash groups defined.

27.1. [User Story] - Crash Reporting

As a mobile developer, I want crash reporting so that I can fix stability issues quickly.

Acceptance Criteria:

Sentry/Crashlytics integrated; dSYM/ProGuard mappings uploaded; release tagging enabled.

- Crash groups are assigned and triaged with ownership.
- Crash-free sessions > 99.5% maintained.

27.1.1. [Task] - Integrate Sentry/Crashlytics for iOS/Android

Description:

Symbol upload (dSYM/ProGuard mappings); release tagging

27.1.1.1. [Subtask] - Symbol upload (dSYM/ProGuard mappings); release tagging

Description:

- Symbol upload (dSYM/ProGuard mappings)
- Release tagging

27.2. [User Story] - App Performance

As a mobile PM, I want performance metrics so that app experience remains smooth.

Acceptance Criteria:

- Cold start, TTI, memory, and ANR metrics have dashboards and alerts.
- Regression alarms are configured; thresholds are documented.
- Remediation work is tracked to completion.

27.2.1. [Task] - Track cold start, TTI, memory, and ANR

Description:

Dashboards and alerts for regressions

27.2.1.1. [Subtask] - Dashboards and alerts for regressions

Description:

- Dashboards
- Alerts for regressions

28. [Feature] - Creator/Influencer Marketplace

Description: Manage creator listings, briefs, deliverables, and compliance with attribution.

Acceptance Criteria:

- Creator profiles/listings and campaign briefs support availability and rates.
- Deliverables tracked with attribution parameters; analytics events emitted.
- Contract terms, approvals, and compliance checks enforced with audit trails.
- Dispute workflow documented with service-level targets.

28.1. [User Story] - Listings & Briefs

As a marketer, I want creator listings and briefs so that campaigns are predictable and efficient.

Acceptance Criteria:

- Profiles/listings support availability, rates, and content formats.
- Briefs define deliverables, timelines, and approvals.
- Changes are tracked with an audit trail.

28.1.1. [Task] - Build creator profiles, listings, and campaign briefs

Description:

· Availability, rates, and supported content formats

28.1.1.1. [Subtask] - Availability, rates, and supported content formats

Descr	ai	tic	n:
	٠٣		

- Availability
- Rates
- Supported content formats

28.2. [User Story] - Deliverables & Attribution

As a marketer, I want deliverables tracked with attribution so that performance is measurable.

Acceptance Criteria:

- Deliverables link to content with attribution parameters.
- Analytics events emit for clicks/views; reporting is available.
- SLA breaches are flagged for follow-up.

28.2.1. [Task] - Track deliverables, links, and performance

Description:

Attribution parameters and analytics events

28.2.1.1. [Subtask] - Attribution parameters and analytics events

Description:

- Attribution parameters
- Analytics events

28.3. [User Story] - Reviews & Compliance

As a compliance owner, I want contract and policy checks so that contract	ent stavs or	i-brand and legal
---	--------------	-------------------

Acceptance Criteria:

- Contract terms, approvals, and policy checks are enforced and recorded.
- Audit trail and dispute workflow are defined.
- Takedown process is documented and exercised.

28.3.1. [Task] - Implement contract terms, approvals, and policy checks

Description:

Audit trail and dispute workflow

28.3.1.1. [Subtask] - Audit trail and dispute workflow

Description:

- Audit trail
- Dispute workflow

29. [Feature] - Community & Gamification

Description: Build community engagement and retention through forums and gamified progression.

- Topics/threads/comments/reactions shipped with moderation tools and reports.
- Points, badges, levels, and streaks granted by rules engine with abuse checks.
- Community notifications delivered; role-based moderation available.
- Escalation workflows measured with CSAT.

29.1. [User Story] - Forums & Threads

As a community member, I want forums to discuss so that I can connect and learn.

Acceptance Criteria:

- Topics/threads/comments/reactions exist with moderation tools.
- Abuse checks and reporting with rate limits protect the community.
- Notifications for mentions and replies are delivered.

29.1.1. [Task] - Build topics, threads, comments, and reactions

Description:

Moderation tools and community reports

29.1.1.1. [Subtask] - Moderation tools and community reports

Description:

- Moderation tools
- Community reports

29.2. [User Story] - Gamification

As a community member, I want points and badges so that engagement is rewarded.

- Points, badges, levels, and streaks are granted by a rules engine.
- Anti-abuse checks, caps, and cooldowns prevent gaming the system.
- Profiles show progress; users can opt out.

29.2.1. [Task] - Implement points, badges, levels, and streaks Description: Rules engine and abuse checks 29.2.1.1. [Subtask] - Rules engine and abuse checks Description: Rules engine Abuse checks 29.3. [User Story] - Notifications & Moderation As a moderator, I want community notifications and tools so that I can manage at scale. Acceptance Criteria: Role-based moderation actions and escalation workflows exist. Community notifications are delivered with user preferences. CSAT on resolutions is measured. 29.3.1. [Task] - Implement community notifications and role-based moderation Description: Escalation workflows; CSAT on resolutions 29.3.1.1. [Subtask] - Escalation workflows; CSAT on resolutions Description:

Escalation workflows

CSAT on resolutions

30. [Feature] - Internationalization & Localization

Description: Prepare the platform for multilingual content and locale-aware rendering.

Acceptance Criteria:

- Locale negotiation on server; consistent message/date/number formatting.
- Translation pipeline supports export/import and fallbacks; missing-keys monitored.
- SEO signals (hreflang/canonicals) compatible with localized pages.
- Key flows localized to target languages as prioritized.

30.1. [User Story] - Service-wide i18n Scaffolding

As a global user, I want localized content so that the site feels native.

Acceptance Criteria:

- Server-side locale negotiation and message/date/number formatting work consistently.
- Missing-key monitoring and fallback behavior are defined.
- Localized routes and SEO signals are honored.

30.1.1. [Task] - Implement locale-aware messages, dates, and numbers

Description:

Server-side locale negotiation and formatting

30.1.1.1. [Subtask] - Server-side locale negotiation and formatting

Description:

- Server-side locale negotiation
- Formatting

30.2. [User Story] - Content & Translation Pipeline

As a content manager, I want a translation pipeline so that content ships in multiple languages.

Acceptance Criteria:

- Export/import tooling and translation status tracking exist.
- Fallbacks are configured; missing keys are monitored.
- QA checks validate translation quality.

30.2.1. [Task] - Implement translation management and fallbacks

Description:

Missing-key monitoring; export/import tooling

30.2.1.1. [Subtask] - Missing-key monitoring; export/import tooling

Description:

- Missing-key monitoring
- Export/import tooling

31. [Feature] - Identity Enhancements

Description: Strengthen identity with MFA, SSO, passwordless, and device trust for higher security.

Acceptance Criteria:

- TOTP/SMS MFA enrollment and recovery codes; enforced for staff, optional for customers.
- SSO for staff (SAML/OIDC) with JIT provisioning and role mapping.
- Passwordless login via OTP/magic link; biometric unlock on mobile where supported.
- Step-up re-auth for sensitive actions; anomalous session detection and device trust.

31.1. [User Story] - Multi-Factor Authentication (MFA)

As a staff user, I want MFA so that my account is protected.

Acceptance Criteria:

- TOTP/SMS enrollment with recovery codes is available; enforced for staff.
- Step-up re-auth is required for sensitive actions.
- Backup/disable flows exist with audit.

31.1.1. [Task] - Add TOTP/SMS MFA for customers; enforce for staff

Description:

• Enrollment, recovery codes, step-up flows

31.1.1.1. [Subtask] - Enrollment, recovery codes, step-up flows

Description:

- Enrollment
- Recovery codes
- Step-up flows

31.2. [User Story] - Staff SSO (Google/O365)

As a staff user, I want SSO so that I can log in with corporate identity.

Acceptance Criteria:
SAML/OIDC with JIT provisioning and role mapping works.
Optional SCIM sync updates roles; logout/invalidate flows exist.
Audit and alerts monitor login anomalies.
31.2.1. [Task] - Implement SAML/OIDC SSO with JIT provisioning
Description:
Role mapping to RBAC; optional SCIM sync
31.2.1.1. [Subtask] - Role mapping to RBAC; optional SCIM sync
Description:
Role mapping to RBAC
Optional SCIM sync
31.3. [User Story] - Passwordless & Device Trust
As a customer, I want passwordless and trusted devices so that sign-in is easy and safe.
Acceptance Criteria:
OTP/magic link flows exist; mobile biometric unlock where supported.
Trusted devices and anomalous session detection implemented.
Step-up re-auth required for sensitive actions.
31.3.1. [Task] - Implement OTP/email magic link and mobile biometric unlock
Description:

Trusted devices, anomalous session detection; re-auth for sensitive actions

31.3.1.1. [Subtask] - Trusted devices, anomalous session detection; re-auth for sensitive actions

Description:

- Trusted devices, anomalous session detection
- Re-auth for sensitive actions

32. [Feature] - Wishlists, Alerts & Recovery

Description: Improve retention with wishlists, stock/price alerts, and abandoned recovery journeys.

Acceptance Criteria:

- Wishlist and recently viewed work for guest and auth users; merge-on-login supported.
- Back-in-stock and price-drop alerts configurable with frequency caps and consent.
- Abandoned cart/checkout journeys trigger across channels with guardrails.
- Event attribution tracked to measure uplift and suppression.

32.1. [User Story] - Wishlist & Recently Viewed (Web)

As a shopper, I want wishlists and history so that I can revisit items.

- Guest and auth modes supported with merge-on-login.
- Recently viewed shows last items with privacy controls.
- API and UI meet performance targets.

32.1.1. [Task] - Implement API and UI for wishlist and recently viewed
Description:
Guest + auth modes; merge-on-login
32.1.1.1. [Subtask] - Guest + auth modes; merge-on-login
Description:
Guest + auth modes
Merge-on-login
32.2. [User Story] - Back-in-Stock & Price-Drop Alerts
As a shopper, I want alerts so that I don't miss desired products.
Acceptance Criteria:
Subscriptions and routing exist with frequency caps; consent integrated.
Opt-out and pause controls available to users.
Attribution of lift is measured.
32.2.1. [Task] - Implement subscriptions and notifications routing
Description:
Frequency caps; consent/preferences integration
32.2.1.1. [Subtask] - Frequency caps; consent/preferences integration
Description:
Frequency caps

Consent/preferences integration

32.3. [User Story] - Abandoned Cart/Checkout Recovery

As a marketer, I want recovery journeys so that abandoned orders convert.

Acceptance Criteria:

- Triggers across email/SMS/push operate with guardrails.
- Suppression rules for recency and discount limits applied.
- Attribution is tracked in analytics.

32.3.1. [Task] - Implement triggered journeys via email/SMS/push

Description:

• Guardrails: frequency, recency, discount limits

32.3.1.1. [Subtask] - Guardrails: frequency, recency, discount limits

Description:

- Frequency
- Recency
- Discount limits

33. [Feature] - Payments Advanced

Description: Expand payment method coverage and robustness while keeping PCI scope minimal.

- UPI, NetBanking, cards, and COD options available with regional toggles.
- Tokenized saved methods via provider vault; SAQ A scope confirmed.
- Partial capture, split refunds, and retry strategies implemented; subscription dunning configured.
- Payment success/failure monitored with alerts and dashboards.

33.1. [User Story] - India Payment Methods Coverage

As a shopper, I want familiar payment options so that I can pay how I prefer.

Acceptance Criteria:

- UPI, NetBanking, cards, and COD options are available with regional toggles.
- Fraud guardrails exist for COD; provider fallback is documented.
- UX shows applicable fees or limitations clearly.

33.1.1. [Task] - Implement UPI, NetBanking, card, and COD toggles

Description:

• COD fraud guardrails; provider fallback

33.1.1.1. [Subtask] - COD fraud guardrails; provider fallback

Description:

- COD fraud guardrails
- Provider fallback

33.2. [User Story] - Saved Methods & PCI Scope

As a customer, I want to save payment methods safely so that future checkout is faster.

- Tokenized storage via provider vault keeps us in SAQ A scope.
- Add/remove flows and default method management exist.
- Clear error states and recovery paths are presented.

33.2.1. [Task] - Implement tokenized storage via provider vault

Description:

SAQ A scope; vault lifecycle (add/remove)

33.2.1.1. [Subtask] - SAQ A scope; vault lifecycle (add/remove)

Description:

- SAQ A scope
- Vault lifecycle (add/remove)

33.3. [User Story] - Capture, Refunds, Retries

As a finance owner, I want robust capture, refunds, and retries so that payment operations are correct.

Acceptance Criteria:

- Partial capture and split refunds implemented with audit.
- Retry strategies configured with idempotency protections.
- Subscription dunning logic and notifications implemented.

33.3.1. [Task] - Implement partial capture, split refunds, and payment retry

Description:

Subscription dunning logic and notifications

33.3.1.1. [Subtask] - Subscription dunning logic and notifications

Description:

- Subscription dunning logic
- Notifications

34. [Feature] - Marketing & CRM

Description: Enable compliant messaging, segmentation, and attribution for lifecycle marketing.

Acceptance Criteria:

- SPF/DKIM/DMARC configured; DMARC reports monitored; sender warmup plan executed.
- ESP/CRM integrated; segments and consent states synced bidirectionally.
- GTM and server-side tagging honor consent; PII redaction applied.
- Post-purchase automations (reviews/winback/replenishment) deliver with holdouts.

34.1. [User Story] - Deliverability & Domain Auth

As an email operations owner, I want authenticated domains so that emails deliver reliably.

Acceptance Criteria:

- SPF/DKIM/DMARC are configured; DMARC reports monitored; warmup plan executed.
- BIMI (optional) considered; deliverability metrics tracked.
- Policy docs maintained for send practices.

34.1.1. [Task] - Configure SPF, DKIM, DMARC (+BIMI optional)

Description:

•	DMARC reporting and warmup pla	an

34.1.1.1. [Subtask] - DMARC reporting and warmup plan

Description:

- DMARC reporting
- Warmup plan

34.2. [User Story] - CRM/ESP Integration

As a marketer, I want CRM/ESP integrated so that segments and campaigns run with fresh data.

Acceptance Criteria:

- Profiles/events sync bidirectionally; segments and consent states align.
- List hygiene (bounces/unsubscribes) enforced automatically.
- Sync errors are retried and surfaced for resolution.

34.2.1. [Task] - Implement Klaviyo/Mailchimp sync for profiles/events

Description:

Segments, list hygiene, consent states

34.2.1.1. [Subtask] - Segments, list hygiene, consent states

Description:

- Segments
- List hygiene
- Consent states

34.3. [User Story] - Tag Management & Server-Side Tagging

As a data privacy owner, I want consent-gated tag management so that tracking respects user choices.

Acceptance Criteria:

- GTM setup gates pixels by consent; server-side tagging explored for key tags.
- PII redaction is enforced; tag changes are audited.
- Tag catalog and ownership are documented.

34.3.1. [Task] - Configure GTM and evaluate server-side tagging options

Description:

Consent-gated pixels; PII redaction

34.3.1.1. [Subtask] - Consent-gated pixels; PII redaction

Description:

- · Consent-gated pixels
- PII redaction

34.4. [User Story] - Post-Purchase Automations

As a marketer, I want automations for reviews, winback, and replenishment so that retention improves.

- Journeys are configured with holdouts and attribution tagging.
- Frequency caps and suppression rules are enforced.
- Reporting shows uplift and ROI.

34.4.1. [Task] - Implement review requests, winback, and replenishment
Description:
Holdouts and attribution tagging
34.4.1.1. [Subtask] - Holdouts and attribution tagging
Description:
• Holdouts
Attribution tagging
34.5. [User Story] - UTM Governance
As a marketer, I want UTM governance so that acquisition reporting is clean.
Acceptance Criteria:
UTM validation and mapping rules exist; auto-tagging applies where possible.
PII stripping is applied to inbound links.
Mis-tag detection alerts are configured.
34.5.1. [Task] - Implement UTM validation and mapping
Description:
Auto-tagging rules; PII stripping
34.5.1.1. [Subtask] - Auto-tagging rules; PII stripping
Description:
Auto-tagging rules

PII stripping

34.6. [User Story] - WhatsApp CRM Integration

As a marketer, I want WhatsApp CRM sync so that profiles and events are consistent across channels.

Acceptance Criteria:

- Profiles and events sync with consent/opt-out handling.
- Channel routing and de-duplication rules enforced.
- Errors are retried and surfaced to ops.

34.6.1. [Task] - Implement syncing of profiles and events

Description:

Consent sync and opt-out handling (integrates with 4.2.1)

34.6.1.1. [Subtask] - Consent sync and opt-out handling (integrates with 4.2.1)

Description:

- Consent sync
- Opt-out handling (integrates with 4.2.1)

35. [Feature] - Eventing & Tracing

Description: Ensure reliable domain event delivery and end-to-end observability.

- Outbox pattern implemented with SNS/SQS; retries and DLQs configured.
- OpenTelemetry tracing across API/web/jobs with propagation headers.
- Web error tracking (Sentry) includes release tagging and source maps.
- Log scrubbing removes PII; retention policies enforced.

35.1. [User Story] - Domain Events & Outbox

As a backend engineer, I want reliable domain events so that downstream systems stay in sync.

Acceptance Criteria:

- Outbox pattern with SNS/SQS is implemented with retries and DLQs.
- Idempotency protects against duplicate processing.
- Monitoring covers lag, retries, and dead letters.

35.1.1. [Task] - Implement outbox pattern and SNS/SQS backbone

Description:

• Idempotency, retries, and DLQs

35.1.1.1. [Subtask] - Idempotency, retries, and DLQs

Description:

- Idempotency
- Retries
- DLQs

35.2. [User Story] - Distributed Tracing

As an SRE, I want distributed tracing so that I can debug cross-service issues.

Acceptance Criteria:

- OpenTelemetry spans exist across API/web/jobs with propagation headers.
- Sampling policy is set; traces visible in APM.
- Key spans instrumented for hot paths.

35.2.1. [Task] - Instrument OpenTelemetry across API/web/jobs

Description:

Trace propagation headers; sampling policy

35.2.1.1. [Subtask] - Trace propagation headers; sampling policy

Description:

- Trace propagation headers
- Sampling policy

35.3. [User Story] - Web Error Tracking

As a frontend engineer, I want web error tracking so that client errors are visible and actionable.

Acceptance Criteria:

- Sentry instrumentation includes release tagging and source maps.
- PII scrubbing is applied to events.
- Alerting thresholds are configured by severity.

35.3.1. [Task] - Add Sentry instrumentation for web

Description:

Release tagging and source maps

35.3.1.1. [Subtask] - Release tagging and source maps

Descri	ntion:
	P (1011.

- Release tagging
- Source maps

35.4. [User Story] - Log Scrubbing & Retention

As a security owner, I want scrubbing and retention so that logs are safe and cost-effective.

Acceptance Criteria:

- PII redaction filters applied; access controls enforced.
- Retention policies set by log type; exports controlled.
- Access and changes are audited.

35.4.1. [Task] - Implement PII redaction filters and retention policies

Description:

Access controls and audit trail

35.4.1.1. [Subtask] - Access controls and audit trail

Description:

- Access controls
- Audit trail

36. [Feature] - Legal & Compliance

Description: Publish policies, handle vuln disclosures, and implement retention aligned to regulation.

Acceptance Criteria:

- Terms/Privacy/Returns/Shipping pages managed via CMS with version history.
- /.well-known/security.txt published; vulnerability disclosure intake defined with SLAs.
- E-invoicing/e-way bill readiness assessed; sandbox integrations validated if applicable.
- Data retention schedule executed with automated purges and legal holds.

36.1. [User Story] - Policy Pages & Disclosure

As a legal/compliance owner, I want managed policy pages and disclosure so that users are informed and researchers can report vulns.

Acceptance Criteria:

- Terms/Privacy/Returns/Shipping pages are managed via CMS with version history.
- /.well-known/security.txt is published; VDP intake defined with SLAs.
- Change approvals and edits have an audit trail.

36.1.1. [Task] - Publish Terms, Privacy, Returns, and Shipping via CMS

Description:

Footer links, versioning, approval workflow

36.1.1.1. [Subtask] - Footer links, versioning, approval workflow

Description:

- Footer links
- Versioning

Approval workflow

36.2. [User Story] - Security.txt & VDP

As a security owner, I want a VDP so that vulnerabilities are reported responsibly.

Acceptance Criteria:

- security.txt is published with intake instructions; optional public key provided.
- Triage SLAs and secure inbox are set up.
- Reports are tracked to closure.

36.2.1. [Task] - Publish /.well-known/security.txt and define intake process

Description:

Triage SLAs; optional public key

36.2.1.1. [Subtask] - Triage SLAs; optional public key

Description:

- Triage SLAs
- Optional public key

36.3. [User Story] - India E-Invoicing/E-Way Bill Readiness

As a finance owner, I want e-invoicing readiness so that we can comply as thresholds are met.

- Threshold evaluation is documented; provider integrations sandbox-tested.
- Fallback procedures are defined for outages.

 Monitoring of thresholds and compliance status exists.
36.3.1. [Task] - Implement threshold evaluation and provider integration
Description:
Sandbox tests and fallback procedures
36.3.1.1. [Subtask] - Sandbox tests and fallback procedures
Description:
Sandbox tests
Fallback procedures
36.4. [User Story] - Data Retention & Purges
As a privacy owner, I want retention schedules so that data is purged appropriately.
Acceptance Criteria:
Retention schedule implemented with automated purge jobs.
Legal holds are supported with overrides.
Reporting on deletions is available to compliance.
36.4.1. [Task] - Implement retention schedule and automated purge jobs
Description:
Legal holds and reporting
36.4.1.1. [Subtask] - Legal holds and reporting
Description:

- Legal holds
- Reporting

37. [Feature] - Quality Gates & Visual Testing

Description: Prevent regressions via accessibility, visual, and contract testing with release gates.

Acceptance Criteria:

- Accessibility audits (manual + automated) pass on critical flows.
- Visual regression suite runs in CI; baseline management documented.
- Pact contract tests verify client/server agreements.
- UAT sign-off checklist and rollback plan enforced before release.

37.1. [User Story] - Accessibility Audits

As an accessibility lead, I want audits so that the app meets WCAG.

Acceptance Criteria:

- Manual and automated checks pass on critical flows.
- Screen reader and keyboard-only flows are validated.
- Issues are tracked and fixed before release.

37.1.1. [Task] - Run manual and automated (axe/Pa11y) accessibility tests

Description:

Screen reader checks; keyboard-only flows

37.1.1.1. [Subtask] - Screen reader checks; keyboard-only flows

Description:
Screen reader checks
Keyboard-only flows
37.2. [User Story] - Visual Regression Testing
As a frontend lead, I want visual testing so that UI changes don't introduce regressions.
Acceptance Criteria:
Storybook/Chromatic or Playwright snapshots are configured.
Baseline management is documented; PR checks are mandatory.
Visual diffs are reviewed and approved.
37.2.1. [Task] - Set up Storybook/Chromatic or Playwright snapshots
Description:
Baseline management and PR checks
37.2.1.1. [Subtask] - Baseline management and PR checks
Description:
Baseline management
PR checks
37.3. [User Story] - Contract Testing
As a platform engineer, I want contract tests so that client/server integration remains stable.
Acceptance Criteria:

Pact provider/consumer tests exist with a contracts registry.

Backward compatibility checks are in place.
37.3.1. [Task] - Implement Pact provider/consumer tests
Description:
CI verification and contracts registry
37.3.1.1. [Subtask] - CI verification and contracts registry
Description:
CI verification
Contracts registry
37.4. [User Story] - Release/UAT Gates
As a release manager, I want UAT gates so that releases roll out safely.
As a release manager, I want OAT gates so that releases foll out salery.
Acceptance Criteria:
Acceptance Criteria:
Acceptance Criteria: • UAT checklist and sign-off criteria are defined and used.
 Acceptance Criteria: UAT checklist and sign-off criteria are defined and used. Rollback plan is verified for each release.
 Acceptance Criteria: UAT checklist and sign-off criteria are defined and used. Rollback plan is verified for each release. Blocking conditions are enforced in CI/CD.

37.4.1.1. [Subtask] - Verified rollback plan

Description:

Verified rollback plan

38. [Feature] - Catalog Extensions

Description: Enhance catalog with bundles, advanced inventory, PDP Q&A;, and compliant pricing.

Acceptance Criteria:

- Bundles/kits priced and purchasable; cross-sell/upsell placements configured.
- Multi-warehouse/backorder/preorder flows modeled with reservations and lead times.
- PDP Q&A; available with moderation and notifications.
- India pricing fields (MRP, compare-at, GST labels) displayed correctly.

38.1. [User Story] - Bundles/Kits & Merchandising

As a merchandiser, I want bundles so that I can promote value combos.

Acceptance Criteria:

- Bundle SKUs and pricing rules work in cart and checkout.
- Cross-sell and upsell placements are configured.
- Analytics track attach rates and performance.

38.1.1. [Task] - Implement bundle SKUs and pricing rules

Description:

Cross-sell/upsell placements
38.1.1.1. [Subtask] - Cross-sell/upsell placements
Description:
Cross-sell/upsell placements
38.2. [User Story] - Inventory Models
As an operations manager, I want advanced inventory models so that preorders and backorders are handled correctly.
Acceptance Criteria:
Multi-warehouse, backorder, and preorder flows include reservations and lead times.
UI indicates availability dates for preorders.
Alerts and exceptions are surfaced to ops.
38.2.1. [Task] - Implement multi-warehouse, backorder, and preorder
Description:
Reservations and lead times
38.2.1.1. [Subtask] - Reservations and lead times
Description:
Reservations
Lead times

38.3. [User Story] - PDP Q&A;

As a shopper, I want Q&A; on PDP so that I can ask and learn from others.

Acceptance Criteria:
Questions support moderation and notifications for answers.
Merchant answers are highlighted and trustworthy.
Abuse controls and rate limits apply.
38.3.1. [Task] - Implement customer questions and moderation
Description:
Notifications and reporting
38.3.1.1. [Subtask] - Notifications and reporting
Description:
 Notifications
• Reporting
38.4. [User Story] - India Pricing Display
As a shopper, I want correct India pricing labels so that expectations are clear.
Acceptance Criteria:
MRP, compare-at, and GST inclusive labels display per policy.
UX toggles and SEO tags are correct.
Tests verify presentation.
38.4.1. [Task] - Implement MRP, compare-at, and GST inclusive labels
Description:

• UX toggles and SEO tags

38.4.1.1. [Subtask] - UX toggles and SEO tags

Description:

- UX toggles
- SEO tags

39. [Feature] - Mobile Store Compliance

Description: Meet iOS/Android store policies for privacy, ratings, and versioning.

Acceptance Criteria:

- iOS ATT prompt implemented; Google Play Data Safety declarations accurate.
- In-app review prompts deep link to stores with frequency caps.
- Version gating supports force-upgrade and soft prompts; remote kill switches available.
- Compliance items reviewed before every release.

39.1. [User Story] - Privacy Disclosures

As a mobile user, I want clear privacy disclosures so that I understand data use.

Acceptance Criteria:

- iOS ATT prompt implemented; Play Data Safety declarations are accurate.
- Consent logging and audit exist.
- Onboarding messaging is consistent across platforms.

39.1.1. [Task] - Implement iOS ATT and Play Data Safety

Description				
Description:				
Consent logging and audit				
39.1.1.1. [Subtask] - Consent logging and audit				
Description:				
Consent logging				
• Audit				
39.2. [User Story] - Ratings & Reviews				
As a mobile user, I want to rate the app so that feedback is shared.				
Acceptance Criteria:				
In-app review prompts and deep links honor frequency caps and locales.				
Prompts avoid poor-experience moments (e.g., after crashes).				
Metrics for ratings are tracked over time.				
39.2.1. [Task] - Implement in-app review prompts and deep links				
Description:				
Frequency caps and locales				
39.2.1.1. [Subtask] - Frequency caps and locales				
Description:				
Frequency caps				
• Locales				

39.3. [User Story] - Version Gating

As a mobile user, I want version gating so that I'm on a compatible, secure version.

Acceptance Criteria:

- Force-upgrade and soft prompts are controlled via remote config.
- Kill switches exist for critical issues.
- Compatibility matrix is documented and enforced.

39.3.1. [Task] - Implement force-upgrade and soft prompts

Description:

· Remote config and kill switches

39.3.1.1. [Subtask] - Remote config and kill switches

Description:

- Remote config
- Kill switches

40. [Feature] - Multi-Currency Pricing

Description: Support FX-driven price display and SEO for international audiences.

- FX rates fetched with defined cadence and fallback provider; rounding rules applied.
- Prices render in selected currency consistently across web and mobile.

- SEO canonicals and hreflang configured for price variants where applicable.
- Automated tests verify price math and formatting.

40.1. [User Story] - FX and Rounding

As an international shopper, I want prices in my currency so that I can evaluate cost.

Acceptance Criteria:

- FX rates are fetched with fallback; rounding rules applied.
- Display is consistent across web and mobile.
- Automated tests verify math and formatting.

40.1.1. [Task] - Implement currency rates and rounding rules

Description:

Cadence, provider fallback

40.1.1.1. [Subtask] - Cadence, provider fallback

Description:

- Cadence
- Provider fallback

40.2. [User Story] - Price Presentation

As an international shopper, I want clear price presentation so that SEO and UX remain correct.

Acceptance Criteria:

• Multi-currency UI and SEO tags (canonicals/hreflang) are correct.

- Localized currency symbols and formats are applied.
- Performance is unaffected by currency switching.

40.2.1. [Task] - Implement multi-currency UI and SEO tags

Description:

• Canonicals and hreflang updates

40.2.1.1. [Subtask] - Canonicals and hreflang updates

Description:

- Canonicals
- Hreflang updates

41. [Feature] - Ethical Sourcing & Provenance

Description: Provide transparent provenance via supplier KYC, certifications, lot-level traceability, and PDP trust signals.

Acceptance Criteria:

- Supplier onboarding with KYC and document verification; expiries tracked with alerts.
- Lot-level chain-of-custody linked to SKUs; PDP shows verified badges and sourcing info.
- Partner profile pages published with attribution; audit trails recorded for changes.
- Compliance checks and audit schedules tracked to closure.

41.1. [User Story] - Supplier Onboarding & KYC

As a procurement manager, I want supplier KYC so that partners are verified.

Acceptance Criteria:				
Collect KYC and certifications; expiries tracked with reminders.				
Upload/store docs securely; access controlled.				
Audit logs maintained for changes.				
41.1.1. [Task] - Collect KYC and certifications				
Description:				
Upload/store docs; expiry reminders				
41.1.1.1. [Subtask] - Upload/store docs; expiry reminders				
Description:				
Upload/store docs				
Expiry reminders				
41.2. [User Story] - Lot-Level Traceability				
As a compliance owner, I want lot-level traceability so that provenance is transparent.				
Acceptance Criteria:				
Lots link to inventory and orders; chain-of-custody is recorded.				
Scan/import flows are supported for operations.				
Reports are exportable for audits.				
41.2.1. [Task] - Link lots to inventory and orders				
Description:				

• Scan/import lots; chain-of-custody record

41.2.1.1. [Subtask] - Scan/import lots; chain-of-custody record

Description:

- Scan/import lots
- · Chain-of-custody record

41.3. [User Story] - PDP Trust & Partner Pages

As a shopper, I want trust signals so that I can buy confidently.

Acceptance Criteria:

- Verified badges and sourcing info are displayed on PDP.
- Partner pages include certificates and stories.
- Changes are moderated and audited.

41.3.1. [Task] - Display verified badges and sourcing

Description:

• Partner pages with certificates and stories

41.3.1.1. [Subtask] - Partner pages with certificates and stories

Description:

- Partner pages with certificates
- Stories

41.4. [User Story] - Audits & Compliance

As a comi	nliance owner	I want audits tracked so that issues ar	e remediated
As a com	pliance owner,	i wani addits hacked so mai issues ai	z remediated.

Acceptance Criteria:

- Audit scheduling and outcomes are recorded with SLAs.
- Findings and remediation are tracked; transparency notes maintained.
- Status dashboards are available to stakeholders.

41.4.1. [Task] - Track audit scheduling and outcomes

Description:

• Findings, remediation, and public transparency notes

41.4.1.1. [Subtask] - Findings, remediation, and public transparency notes

Description:

- Findings
- Remediation
- Public transparency notes

Version History

 v1.0 (2023-10-14) — Finalized: added status header, anchors, table of contents, and clarified success criteria wording to align with project.md conventions.