

Rainbow / New reconciliation

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

27 new project and reconstruction records

This newly authored edition connects recovered documentation and inspected project sources. Proposed language bindings, named-test discovery and historical execution results remain separate. Gold and Indigo reconstructions follow the recovered overview rules; they are not the missing original volumes. Green has no recovered rule and is not silently invented. White papers remain excluded.

Use the searchable library to inspect each record, source link, industry and project. The appended source-faithful color editions preserve the original mathematical layouts and diagrams with updated terminology.

MJos Predictive Model - Cross-system expression

MJOS-20260924-MJOS-PREDICTIVE-MODEL-RAINBOW | New project sequence · proposed bindings

MJos Predictive Model / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

IF / HOW / THEN prediction using the MJ.23.R2 variance foundation and explicitly versioned comparability.

- Observation: acquisition + availability times + value/Unknown + unit + provenance
- Forecast: horizon + scope + uncertainty + model identity
- Comparability: explicit contract
- GateVerdict: PASS | HOLD | DENY

ADAPTER OBLIGATIONS

Chronology, units, provenance, comparability and required evidence are admitted.

Evaluate preserved model arithmetic in independent bounded workers; compare output and minority-risk gates.

Return an advisory forecast with uncertainty or HOLD; execution permission remains separate.

RELATIONSHIP STATUS

These links describe a proposed integration unless the cited source explicitly implements it. In particular, grouping BarTide or Moana under the MJos model does not prove an installed Bangel runtime in those products. Preserve type, clock, tenant and evidence provenance across every boundary.

EVIDENCE LIMITS

- Forecasts are advisory and uncalibrated.
- A hosted software package is not a bootable OS.
- Existing source notice describes private inherited material; naming updates must preserve license/attribution boundaries.
- No real-workload forecast accuracy established by this review.

SOURCE REFERENCES

[README.md](#)

[core.py](#)

[forecast.bangel](#)

Bangel Language - Cross-system expression

MJOS-20260924-BANGEL-LANGUAGE-RAINBOW | New project sequence · proposed bindings

Bangel Language / Rainbow

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PROJECT ADAPTER

Typed measurement authoring through Elsa, independent JP admission and Joanna execution.

- Unknown[T] distinct from zero
- Quantity: magnitude + unit
- ProgramIdentity: source and toolchain version
- Receipt: status + outputs + provenance

ADAPTER OBLIGATIONS

Source and inputs satisfy the versioned admitted language contract.

Preserve type/unit/missingness, compile with Elsa, independently admit JP and execute with Joanna under limits.

Return a receipt with PASS/HOLD and evidence; host effects require independent authorization.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Fresh package execution was not performed here; README test counts refer to named prior candidates.
- Complete GIN lifecycle, all formula conversion and 189 Purple/Yellow relationship meanings remain open per source documentation.
- Do not conflate compilation PASS with permission to act.

SOURCE REFERENCES

[README.md](#)

[CONTRACT-RECONCILIATION.md](#)

BarTide - Cross-system expression

MJOS-20260924-BARTIDE-RAINBOW | New project sequence · proposed bindings

BarTide / Rainbow

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PROJECT ADAPTER

Restaurant workspaces, ordering, menus, staff, fulfilment and delivery in an ASP.NET Core / Blazor application.

- TenantId: Text
- OperationId: Text
- ExpectedVersion: Int
- Outcome: PASS | HOLD | DENY
- Receipt: source + tenant + request hash + version

ADAPTER OBLIGATIONS

A request belongs to an authenticated, active tenant and has an admitted operation.

Resolve tenant identity, input shape, current version, idempotency and module-specific rules.

Return a bounded typed result; hold unknown prerequisites and deny failed authorization.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- README calls this a source candidate, not a completed production launch.
- No fresh production configuration/runtime audit; source module existence does not prove activation.
- No production Bangel integration discovered in BarTide application source; reconciliation is a proposed adapter layer.

SOURCE REFERENCES

[README.md](#)

[Program.cs](#)

BarTide Stripe API - Cross-system expression

MJOS-20260924-STRIPE-API-RAINBOW | New project sequence · proposed bindings

BarTide Stripe API / Rainbow

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CROSS-SYSTEM PATH

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PROJECT ADAPTER

Merchant onboarding, checkout creation, payment status and webhook handling at the BarTide payment boundary.

- MerchantEnvironment: test
- PaymentIntentBinding: tenant + order + account + attempt + amount + currency
- ProviderEvidence: signed event + retrieved object
- SettlementStatus: pending | paid | refund state

ADAPTER OBLIGATIONS

Sandbox configuration, connected account, cards-only verification and order binding are admitted.

Bind amount/currency, tenant/order/attempt, account, provider response and signed notification; reconcile provider state.

Record only the reconciled payment state; absent provider evidence remains pending/HOLD.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Do not describe merchant source as enabled live payments.
- Production secrets, provider account readiness and successful real payment flow were not inspected.
- Signed webhooks are provider evidence, not blanket permission.

SOURCE REFERENCES

[MerchantPaymentOptions.cs](#)

[MerchantStripeProvider.cs](#)

[MerchantPaymentsEndpoints.cs](#)

MJ Neural Net - Cross-system expression

MJOS-20260924-MJ-NEURAL-NET-RAINBOW | New project sequence · proposed bindings

MJ Neural Net / Rainbow

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CROSS-SYSTEM PATH

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PROJECT ADAPTER

Associative recall, relational discrimination and bounded source-grounded diagram overlays.

- Feature: Missing(reason) | Known(Real)
- Nodes: n1...n9
- Memory: identity + pattern + relation + context
- Review: request hash + status
- r0: PROVISIONAL

ADAPTER OBLIGATIONS

Cue features, memory timing and known relational context pass the closed input contract.

Run bounded association; preserve missing features; compare entity/relation/context; bind independent review.

Return a provisional advisory candidate or HOLD; retain downstream DENY and no actuation permission.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Engineered computational model, not hippocampal biology or general natural-language prediction.
- Lowercase r0 remains provisional and distinct from uppercase R0.
- Synthetic comparison shows a recall/coverage tradeoff; not field accuracy or equal-coverage benefit.
- Diagram geometry and command mapping must retain separate namespaces.

SOURCE REFERENCES

[neural.bangel](#)

[adapter.py](#)

[README.md](#)

Neural Logic Mapping - Cross-system expression

MJOS-20260924-NEURAL-LOGIC-MAPPING-RAINBOW | New project sequence · proposed bindings

Neural Logic Mapping / Rainbow

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CROSS-SYSTEM PATH

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PROJECT ADAPTER

N1-N7 interpretation pathway with r9 covering N5-N7 and bounded recovery.

- Observation: source + original form
- r0: first interpretation, provisional
- r1: articulation/relationship representation
- Intention: inferred claim + alternatives + evidence
- RecoveryAttempt: named gap + correction + progress

ADAPTER OBLIGATIONS

An observation and first reading are preserved with context and assumptions.

Compare alternative readings across declared stages; separate observed structure from inferred intention; run bounded recovery only for a named gap.

Output only supported scope; hold confirmation when referents or intent are unresolved.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Historical task is not a current source repository.
- Formalization explicitly said implementation/testing pending; later parser-valid snippets do not prove complete NLP/image interpretation implementation.
- Intent is inference; UNKNOWN != ZERO; you/You distinction must be preserved.

MJ Memory Recall - Cross-system expression

MJOS-20260924-MJ-MEMORY-RECALL-RAINBOW | New project sequence · proposed bindings

MJ Memory Recall / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
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PROJECT ADAPTER

Scoped episodic recall and a separate self-healing evaluation seam.

- Episode: namespace + frame + observed_at + available_at + provenance
- Trace: actor + time + coordinates + units
- Recall: candidate + score + ambiguity + review
- Lifecycle: QUIESCE | SEAL | CHECKPOINT | DETACH | RECLAIM

ADAPTER OBLIGATIONS

Memory is available as of the query, in the same namespace/frame with authenticated provenance.

Compare cue, entity, relation, context and trajectory; hold ambiguous margin and missing context; review updates independently.

Return a bounded advisory memory match or HOLD; forecasts never become observations.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Catalog dimensions were read from current documentation, not recounted here.
- Geometry alone cannot identify an entity; 146 distinct complete assignments documented across the larger catalog.
- No user memory import, biological validation or physical memory reclamation claim.

SOURCE REFERENCES

[README.md](#)

[recall.bangel](#)

[KERNEL.md](#)

Moana - Cross-system expression

MJOS-20260924-MOANA-RAINBOW | New project sequence · proposed bindings

Moana / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

Vessel and customer records, service jobs, photos, checklists, completion records and backup/restore.

- Job: customer + vessel + tasks + revision
- Observation: Unknown(reason) | known(value, unit, time)
- PreparedChange: operation ID + base revision + review
- ServiceReport: observed work, not vessel certification

ADAPTER OBLIGATIONS

A job has the required recorded observations and complete tasks at the current revision.

Preserve Unknown versus known zero, photo bytes and provenance; prepare/validate review; commit once against revision and operation identity.

Save a supported change or hold missing evidence; retain backup/recovery and history.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Current source was not recovered or inspected in this pass; all build/test assertions are historical task statements.
- Device-local single-operator prototype; shared accounts/cloud sync/scheduling/billing were later work.
- Do not transfer earlier CPU/encryption/rendering benchmark claims into Moana performance claims.
- Native Moana platform not fully activated; recovered presentation/routing contract was reused.
- Report page-break issue remained noted.

SOURCE REFERENCES

mj-moana.stormy-ray-3254.chatgpt.site

Engineering Studio - Cross-system expression

MJOS-20260924-ENGINEERING-STUDIO-RAINBOW | New project sequence · proposed bindings

Engineering Studio / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
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PROJECT ADAPTER

Guided browser authoring, client-delivery review, C# work and Bangel reference integration.

- Language: CSharp | Bangel
- Draft: source + version
- ExecutionEvidence: actual | expected-only | not-run
- LessonResult: prediction + receipt + comparison

ADAPTER OBLIGATIONS

A selected lesson/example declares its language, expected outcome and execution capability.

Keep editable source, prediction, execution evidence and receipt separate; bind source hash/runtime/version.

Report real parser/runtime evidence where available; label exported-but-not-run C# honestly.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- C# is not compiled/executed in browser or server; downloaded .NET project is its execution path.
- Expected output and completion checkmarks are not evidence of execution.
- No current application API/database integration or deployment control.
- Adding Bangel and build.tide.casa is the present requested work, not an existing capability established by this review.

SOURCE REFERENCES

ENGINEERING-STUDIO.md

Hagar / Water Protection - Cross-system expression

MJOS-20260924-HAGAR-RAINBOW | New project sequence · proposed bindings

Hagar / Water Protection / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

Water-protection and evidence-gated environmental reference pathways.

- SourceIdentity: Text
- ProfileIdentity: Text
- EvidenceState: known | unknown | simulated | historical
- ReviewOutcome: supported | HOLD | DENY

ADAPTER OBLIGATIONS

The purpose, inputs, units, evidence origin and current profile are declared.

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Each physical model needs its own measured inputs, units, environment, uncertainty and authority boundary.

Pearl / DRO - Cross-system expression

MJOS-20260924-PEARL-RAINBOW | New project sequence · proposed bindings

Pearl / DRO / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
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PROJECT ADAPTER

Pearl, DRO and ignition reference papers and their source relationships.

- SourceIdentity: Text
- ProfileIdentity: Text
- EvidenceState: known | unknown | simulated | historical
- ReviewOutcome: supported | HOLD | DENY

ADAPTER OBLIGATIONS

The purpose, inputs, units, evidence origin and current profile are declared.

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Recovered conceptual and mathematical claims must retain their evidence ceiling; no physical performance upgrade is implied.

GIN Measurement - Cross-system expression

MJOS-20260924-GIN-RAINBOW | New project sequence · proposed bindings

GIN Measurement / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

Intervals, clock normalization, temporal states and evidence-bound measurements.

- SourceIdentity: Text
- ProfileIdentity: Text
- EvidenceState: known | unknown | simulated | historical
- ReviewOutcome: supported | HOLD | DENY

ADAPTER OBLIGATIONS

The purpose, inputs, units, evidence origin and current profile are declared.

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Full GIN lifecycle remains distinct from the implemented interval and evidence adapters.

Solar Systems - Cross-system expression

MJOS-20260924-SOLAR-RAINBOW | New project sequence · proposed bindings

Solar Systems / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

Core, marine, rocket and semiconductor/phone solar reference families.

- SourceIdentity: Text
- ProfileIdentity: Text
- EvidenceState: known | unknown | simulated | historical
- ReviewOutcome: supported | HOLD | DENY

ADAPTER OBLIGATIONS

The purpose, inputs, units, evidence origin and current profile are declared.

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Applications are separate profiles; one calculation does not qualify a different physical application.

Lecanto - Cross-system expression

MJOS-20260924-LECANTO-RAINBOW | New project sequence · proposed bindings

Lecanto / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

Source, measurement and evidence relationships in the early reference corpus.

- SourceIdentity: Text
- ProfileIdentity: Text
- EvidenceState: known | unknown | simulated | historical
- ReviewOutcome: supported | HOLD | DENY

ADAPTER OBLIGATIONS

The purpose, inputs, units, evidence origin and current profile are declared.

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Normalized drawings are not physical dimensions or approved coordinates.

Quantum Systems - Cross-system expression

MJOS-20260924-QUANTUM-SYSTEMS-RAINBOW | New project sequence · proposed bindings

Quantum Systems / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
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PROJECT ADAPTER

Quantum-related references, uncertainty and cross-system evidence relationships.

- SourceIdentity: Text
- ProfileIdentity: Text
- EvidenceState: known | unknown | simulated | historical
- ReviewOutcome: supported | HOLD | DENY

ADAPTER OBLIGATIONS

The purpose, inputs, units, evidence origin and current profile are declared.

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- A project label or simulation does not demonstrate quantum hardware, entropy performance or physical validation.

Early Works - Cross-system expression

MJOS-20260924-EARLY-WORKS-RAINBOW | New project sequence · proposed bindings

Early Works / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

Foundational formulas, observational lifecycle, governance roles and source records.

- SourceIdentity: Text
- ProfileIdentity: Text
- EvidenceState: known | unknown | simulated | historical
- ReviewOutcome: supported | HOLD | DENY

ADAPTER OBLIGATIONS

The purpose, inputs, units, evidence origin and current profile are declared.

Bind the source identity, compare only eligible observations, preserve uncertainty and review the evidence ceiling.

Return a scoped result, HOLD for missing evidence, or DENY for a failed permission boundary.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Historic test counts and frozen source identities remain dated evidence, not fresh verification.

BarTide and Tide Casa onboarding - Cross-system expression

MJOS-20260924-BARTIDE-ONBOARDING-RAINBOW | New project sequence · proposed bindings

BarTide and Tide Casa onboarding / Rainbow

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CROSS-SYSTEM PATH

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PROJECT ADAPTER

RegisterWorkspace accepts restaurant/business plan, acknowledgement and required contact fields. Creates draft workspace, empty menu and deterministic request-ID slug; existing ownership cannot be rebound by matching email. TenantStaffAccess reads active durable membership; verified sign-in email may claim an unbound invitation.

- RegistrationRequest: request ID, plan, acknowledged, business and contact
- OwnerBinding: user ID + tenant ID
- WorkspaceState: draft | active
- PublicationReview: separate evidence

ADAPTER OBLIGATIONS

Identity is verified, requested plan is admitted and no conflicting ownership exists.
Validate fields; bind user and tenant in a transaction; preserve existing ownership.
Create or return draft workspace; conflicting ownership holds for review.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- One-workspace-per-account behavior is explicit in source.
- Creating a draft does not publish a restaurant or activate payments.
- No end-to-end onboarding execution in this review.

SOURCE REFERENCES

[WorkspaceRegistrationStore.cs](#)

[TenantStaffAccess.cs](#)

BarTide ordering and menu - Cross-system expression

MJOS-20260924-BARTIDE-ORDERING-RAINBOW | New project sequence · proposed bindings

BarTide ordering and menu / Rainbow

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CROSS-SYSTEM PATH

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PROJECT ADAPTER

Menu categories, items, ingredient exclusions, item requests, order requests and quantities. Order quoting and fingerprints, customer receipt/tracking, staff operations and delivery workflow source. Delivery settings include allowed ZIP codes, fee, minimum and capacity.

- MoneyCents: Int + currency
- OrderRequest: tenant + quote fingerprint + request ID
- Fulfillment: pickup | delivery | table
- PaymentState: separately bound

ADAPTER OBLIGATIONS

The tenant menu, fulfillment mode and quote fingerprint remain current.

Compute whole-cent totals from server data; validate quantities, capacity, requests and repeat operation identity.

Issue one receipt or return a version/quote conflict; never infer payment from order creation.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Per-serving variants are not separate cart lines in current phase-two documentation.
- No source evidence of automatic route optimization.
- Fictional Gulf Lantern demo does not establish actual business outcomes.

SOURCE REFERENCES

[RestaurantOrderingStore.cs](#)

[RestaurantOrdering.cs](#)

[DELIVERY-PHASE-TWO.md](#)

BarTide delivery and driver operations - Cross-system expression

MJOS-20260924-BARTIDE-DRIVER-RAINBOW | New project sequence · proposed bindings

BarTide delivery and driver operations / Rainbow

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CROSS-SYSTEM PATH

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PROJECT ADAPTER

Manual driver assignment with active same-tenant account membership, acknowledgement, collection, delivered confirmation and problem reporting. Driver writes and visibility are assignment-scoped; reassignment invalidates prior authority. Payment reconciliation is separate from physical delivery.

- DeliveryAssignment: tenant + order + driver + version
- DeliveryState: assigned | acknowledged | collected | delivered | problem
- PaymentState: independent
- OverrideReason: required for authorized manager exception

ADAPTER OBLIGATIONS

An assigned active driver or authorized manager requests a legal transition against the current version.

Validate membership, assignment, status, reason for override and operation identity.

Record one accountable delivery transition; outstanding payment remains outstanding.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Native/background driver app and external delivery provider phases remain paused.
- Driver confirmation is not payment/refund authority.
- No route optimization claim.

SOURCE REFERENCES

[RestaurantDeliveryWorkflow.cs](#)

[DELIVERY-PHASE-ONE.md](#)

BarTide foreground delivery location - Cross-system expression

MJOS-20260924-BARTIDE-LOCATION-RAINBOW | New project sequence · proposed bindings

BarTide foreground delivery location / Rainbow

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
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PROJECT ADAPTER

Optional location session after assignment, acknowledgement and collection. Public shared demo accepts only simulated server positions; private foreground GPS path exists. Fresh/stale/expired location distinctions; latest point storage, one active customer leg, sequence and capture validation.

- Location: latitude + longitude + accuracy + captured time
- LocationMode: simulated | foreground-real
- Session: tenant + driver + order
- Freshness: fresh | stale | unavailable

ADAPTER OBLIGATIONS

The current session is consensual, assigned, active and in the admitted real/simulated mode.

Bind coordinates to session, sequence, accuracy and acquisition time; recheck permissions and age.

Expose only the customer's active leg; hold stale/unknown location and stop sharing after invalidation.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- No background service, promised ETA, offline replay or route history.
- Physical iOS/Android GPS and poor-network field trials remain unverified in current documentation.
- Private deployment requires its own table policy; public-demo policy must not be reused unchanged.

SOURCE REFERENCES

[RestaurantDeliveryLocation.cs](#)

[DeliveryLocationSchema.cs](#)

[DELIVERY-PHASE-TWO.md](#)

BarTide staff scheduling and training - Cross-system expression

MJOS-20260924-BARTIDE-STAFF-RAINBOW | New project sequence · proposed bindings

BarTide staff scheduling and training / Rainbow

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

Team members and roles, time-bounded shifts, team messages, courses, lessons, assignments and lesson completion records. AddShift validates start/end and rejects overlaps for the employee.

- TeamShift: member + start + end + label
- TrainingProgress: member + lesson + completion + time
- Role: owner | manager | bartender | server | kitchen | driver

ADAPTER OBLIGATIONS

The staff member is active and the acting user may manage the tenant.

Validate shift interval/non-overlap or course version/assignment; preserve source identity.

Save an explicit schedule or learning record; incomplete evidence does not certify proficiency.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Training checkmarks are stored completion state, not independent proof of skill.
- Shift management exists; no optimizer or external calendar synchronization established.

SOURCE REFERENCES

[StaffTraining.cs](#)

[StaffTrainingStore.cs](#)

BarTide customer and staff rewards - Cross-system expression

MJOS-20260924-BARTIDE-REWARDS-RAINBOW | New project sequence · proposed bindings

BarTide customer and staff rewards / Rainbow

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence -> applicable independent review -> bounded result.

PROJECT ADAPTER

Pure reward eligibility evaluation from supplied authoritative history. Deduplicates source events and rejects conflicting event IDs; filters tenant/customer, state, future events and monthly time zone. Versioned rules, qualification audit, points, redemption requests and employee ledger contracts.

- Qualification: tenant + customer + source event + units + occurred time + state
- RuleVersion: immutable identity
- Eligibility: count + period + units remaining
- IssuancePermit: separate

ADAPTER OBLIGATIONS

The evidence belongs to the correct tenant/customer and rule version.

Count admitted eligible history as of the declared time; distinguish duplicate from conflicting sources.

Return eligibility only; issuance and redemption require separate authorized durable operations.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Evaluator explicitly does not authorize, issue or redeem a reward.
- Durable issuance must enforce uniqueness independently.

SOURCE REFERENCES

[RewardEvaluator.cs](#)

[Rewards.cs](#)

BarTide events and reservations - Cross-system expression

MJOS-20260924-BARTIDE-EVENTS-RAINBOW | New project sequence · proposed bindings

BarTide events and reservations / Rainbow

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence
-> applicable independent review -> bounded result.

PROJECT ADAPTER

Event title/location/time zone/capacity/publication state, RSVP, check-in and guest list contracts with request keys and versions.

- Event: ID + interval + time zone + capacity + version
- RSVP: user + event + state
- CheckIn: independent recorded observation

ADAPTER OBLIGATIONS

A published event and permitted capacity exist, with the current version.

Bind RSVP/check-in to event, customer, request key and capacity transaction.

Persist one reservation transition or return held/conflicting status.

RELATIONSHIP STATUS

These links describe a proposed integration unless the cited source explicitly implements it. In particular, grouping BarTide or Moana under the MJos model does not prove an installed Bangel runtime in those products. Preserve type, clock, tenant and evidence provenance across every boundary.

EVIDENCE LIMITS

- Read contract and module presence only; complete event behavior not freshly exercised.

SOURCE REFERENCES

[Events.cs](#)

[EventsStore.cs](#)

BarTide business posts and private media - Cross-system expression

MJOS-20260924-BARTIDE-POSTS-MEDIA-RAINBOW | New project sequence · proposed bindings

BarTide business posts and private media / Rainbow

MJos Predictive Model | First manifestation of the Bangel Language

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CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence -> applicable independent review -> bounded result.

PROJECT ADAPTER

Draft/published business posts, consent-bearing push subscriptions and subscriber counts. Private object store, media endpoints and uploaded-video references.

- Post: tenant + content + state + version
- Subscription: endpoint hash + consent + active
- MediaReference: tenant + object identity + access scope

ADAPTER OBLIGATIONS

The actor can publish the tenant's content and recipients have relevant consent.

Validate content/version, access policy, subscription binding and durable outbox identity.

Publish or enqueue only the authorized content; hold missing consent or unavailable delivery evidence.

RELATIONSHIP STATUS

These links describe a proposed integration unless the cited source explicitly implements it. In particular, grouping BarTide or Moana under the MJos model does not prove an installed Bangel runtime in those products. Preserve type, clock, tenant and evidence provenance across every boundary.

EVIDENCE LIMITS

- No notification was sent and no media access was exercised in this review.
- Publication rights and push consent require actual current authorization.

SOURCE REFERENCES

[BusinessPosts.cs](#)

[BusinessPostsOutbox.cs](#)

[PrivateObjectStore.cs](#)

Stripe API - Tide Casa service billing - Cross-system expression

MJOS-20260924-STRIPE-SERVICE-BILLING-RAINBOW | New project sequence · proposed bindings

Stripe API - Tide Casa service billing / Rainbow

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence -> applicable independent review -> bounded result.

PROJECT ADAPTER

Quotes, setup/maintenance subscription checkout, invoices, cancel/discard and guest purchase contracts.

ServiceBillingProvider supports sandbox or explicitly gated live configuration; creation requires checkout/cards-only/method configuration gates. Webhook signature verification and invoice/refund reconciliation code exists.

- BillingEnvironment: sandbox | live
- Quote: initial + monthly + currency + fingerprint + terms version
- SubscriptionState: provider-bound
- InvoiceEvidence: amount + paid/refunded state

ADAPTER OBLIGATIONS

The customer accepts current terms and an unchanged quote, with the appropriate billing environment enabled. Bind checkout snapshot, account, price, method configuration and request ID; reconcile signed invoice evidence. Persist the invoice/subscription status; never treat a redirect or advisory forecast as payment.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- Distinct from merchant payments, which are currently test-only.
- Source ability to configure live is not evidence live billing is activated.
- No subscriptions were created or changed.

SOURCE REFERENCES

[ServiceBillingProvider.cs](#)

[ServiceBillingReconciliation.cs](#)

[ServiceBilling.cs](#)

Tide Casa sales, referrals and launch review - Cross-system expression

MJOS-20260924-BARTIDE-SALES-REFERRALS-RAINBOW | New project sequence · proposed bindings

Tide Casa sales, referrals and launch review / Rainbow

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence -> applicable independent review -> bounded result.

PROJECT ADAPTER

Sales leads/stages, follow-up dates, assignee, private notes, activity history and workspace link contracts. Referral applications/review codes, discount/commission totals and billing-linked sales. Launch-review and demo-request/inbox modules.

- Lead: source + stage + next action + version
- Referral: profile + code + terms + verified sale
- LaunchReview: tenant + evidence + explicit decision

ADAPTER OBLIGATIONS

The actor owns the sales or launch-review role and the data is current.

Track lead state and referral evidence with request keys, versions and approved workspace binding.

Return accountable business status; publication follows its separate review gate.

RELATIONSHIP STATUS

These links describe a proposed integration unless the cited source explicitly implements it. In particular, grouping BarTide or Moana under the MJos model does not prove an installed Bangel runtime in those products. Preserve type, clock, tenant and evidence provenance across every boundary.

EVIDENCE LIMITS

- Private prospects/data excluded from repo per README.
- A stored follow-up date is not evidence an external reminder/message is scheduled.
- Public content should not include private lead records.

SOURCE REFERENCES

[SalesPipeline.cs](#)

[Referrals.cs](#)

[LaunchReviewStore.cs](#)

MJ Decision Layer and recovery - Cross-system expression

MJOS-20260924-MJ-DECISION-RAINBOW | New project sequence · proposed bindings

MJ Decision Layer and recovery / Rainbow

MJos Predictive Model | First manifestation of the Bangel Language

MJ Physics Engineering | Owned and operated by Michael Bangel | Clearwater, Florida

CROSS-SYSTEM PATH

Human purpose -> MJ scope -> Bangel expression -> Elsa compilation -> JP admission -> Joanna execution evidence -> applicable independent review -> bounded result.

PROJECT ADAPTER

Current source package exposes arbitration, modes, noise filtering, loop protection, integrated pipeline and RecoveryStore. Pure Bangel decision source plus bounded Python host supervision. L1 observation, L2 association, L3 recall, L4 forecasting, L5 arbitration is explicitly a proposed logical organization.

- Candidate: identity + score + source
- Mode: separate from decision status
- Health/Review/Minority/Downstream: independently bound
- Recovery: operation ID + checkpoint + outcome certainty

ADAPTER OBLIGATIONS

Required reviews, liveness, forecast and downstream gates are present and current.

Apply gate precedence, bounded rankings and progress-aware recovery with durable operation identities.

Select an advisory or HOLD/DENY; ambiguous external completion remains held.

RELATIONSHIP STATUS

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EVIDENCE LIMITS

- SELECTED identifies an advisory candidate; no financial or physical permission.
- Missing independent gates HOLD.
- Recovery does not retry uncertain external effects and cannot convert predicted data into observed evidence.

SOURCE REFERENCES

[README.md](#)

[MJ-NEURAL-L5-CONTRACT.md](#)

[decision.bangel](#)