Start Here's Delivery

The Vertical Horizon Platform

Upload any RFP, PRD, or statement of work. Vertical Horizon decomposes complex requirements, assigns structured task decomposition, calculated estimation, and generates a swarm package AI agent teams can execute autonomously.

New Analysis

Project Name
Kindred Table

Domain
Marketplace

Requirements Input
Upload PRD, RFP, or SOW

Point of Contact
Sarah Chen, Product Lead, Kindred Table

Attend
Sarah Chen, Product Lead
Marcus Rivera, Engineering Director

Executive
Jennifer Walsh, CEO
Dr. Robert Kim, Chief Medical Officer

Standard
Full analysis with all sections

Executive
Summary, risk, and key decisions only

Include AI Recommendations
Suggest solutions for identified gaps

Analyze RFP

Recent Analyses

LEO — 2 tasks
Jan 15, 2026

ZEBEX — 3 tasks
Jan 14, 2026

Town, Properties — 4 tasks
Jan 13, 2026

Tools, — 2 tasks
Jan 12, 2026

Khalifa, — 2 tasks
Jan 11, 2026

Kindred-Table-Requirements-Spec-v0.2.md

2 Pending Review

Approved: 4 • Pending: 2 • Rejected: 0 • Unreviewed: 0
Review the AI's work. Once approved, it proceeds to RFP Vision Package.

Type to filter... Domains

Approve All Unreviewed

Milestones

Comprehensive AI match recommendations — Feedback — Standard — Approved
High-level system capabilities — Feedback — Standard — Approved
Practice improvement by user role — Feedback — Standard — Approved
Detailed workflows and steps — Feedback — Standard — Approved
Category, Frequency, estimates — Feedback — Standard — Approved
Phased plan with costs — Feedback — Standard — Approved
Client newly proposed document — Feedback — Standard — Approved
Awaiting approval of proposed — Feedback — Standard — Unrated

Analysis Output

MD | TC | AD | SC | TA | PD | WB | DT

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Kindred Table — Supper Club Marketplace

Development Proposal

1. Executive Summary

This document defines the complete technical implementation of Kindred Table, a two-sided marketplace connecting supper club hosts with guests seeking authentic dining experiences. The platform enables hosts to manage events, sell tickets, and receive payouts, while guests discover and book experiences in their neighborhood.

The implementation encompasses all requirements specified in the Preliminary Requirements and Joint System Specification (v1.2), delivering a production-ready system within the 16-week timeline and $185,000 budget. The architecture prioritizes trust and safety, mobile-first user experience, and operational efficiency for a small team.

Total Investment: $185,000
Timeline: 16 weeks (4 one-week sprints)
Deliverable: Production-ready marketplace platform with comprehensive testing and documentation

2. Understanding of Requirements

Kindred Table is positioned as a "curated marketplace" for Portland, Oregon, differentiating from generic platforms like Eventbrite by emphasizing:

- **Host verification and approval** through an interview and safety review process
- **Real-time and inventory management** preventing overbooking under concurrent load
- **Mobile-first design** for both hosts managing events on-the-go and guests browsing discovery
- **Strong trust mechanisms** including verified reviews, host ratings, and dispute resolution
- **Operational simplicity** for a small team without dedicated customer support staff

Scope and Boundaries

The platform targets demonstration deployment with specified production scale parameters (expected capacity: 50 to 500 concurrent users). Multi-region deployment, native mobile applications, and enterprise-grade SLA guarantees are explicitly excluded. Stripe Connect Express is leveraged for payment processing, minimizing custom financial logic and compliance burden.

3. Requirements Traceability Matrix

The following matrix demonstrates complete coverage of all RFP requirements across the proposed solution:

Spec	Feature	Implementation
Host Onboarding & Management	Host Application Form	§4.1 Host Onboarding — Application submission, validation, and storage
	Host Application Review Queue	§4.1 Host Onboarding — Admin interface for approving or rejecting applications
	Stripe Connect Express Integration	§4.1 Host Onboarding — Payout account setup, verification, and onboarding flow
	Host Dashboard	§4.2 Host Dashboard — Overview, quick stats, and navigation
	Host Profile Management	§4.2 Host Dashboard — Editing bio, photos, dietary specialties, and public profile
Listing Management	Listing Creation Wizard	§4.3 Listing Management — Multi-step form for creating new experiences
	Listing Photo Upload & Gallery	§4.3 Listing Management — Image upload, ordering, and gallery display
	Menu Description Editor	§4.3 Listing Management — Rich text editing for menu and dietary notes
	Event Instance Generation	§4.3 Listing Management — Creating specific dates from recurring templates
Guest Discovery & Search	Search Interface	§4.4 Guest Discovery — Search bar, filters, and results display
	Search Backend Implementation	§4.4 Guest Discovery — Query processing, filtering, and ranking logic
	Geolocation Proximity Search	§4.4 Guest Discovery — Location-based search and distance calculation
	Map View Integration	§4.4 Guest Discovery — Interactive map with listing markers
	Listing Detail Page	§4.4 Guest Discovery — Full experience information display
	Host Profile Page	§4.4 Guest Discovery — Public host profile and their listings
	Review Display	§4.4 Guest Discovery — Showing ratings and written reviews
Booking & Reservation System	Booking Flow UI	§4.5 Booking System — Multi-step reservation process
	Availability Calendar	§4.5 Booking System — Date and time selection interface
	Inventory Management	§4.5 Booking System — Preventing overbooking under concurrent load
	Booking Confirmation	§4.5 Booking System — Email and in-app confirmation
	Booking Modification & Cancellation	§4.5 Booking System — Guest and host cancellation workflows
Payment Processing & Payouts	Stripe Payment Integration	§4.6 Payment Processing — Charging guest payment methods
	Payout Scheduling	§4.6 Payment Processing — Automated host payouts after event completion
	Refund Processing	§4.6 Payment Processing — Handling refunds for cancellations
	Platform Fee Calculation	§4.6 Payment Processing — Commission and fee computation
	Transaction Ledger	§4.6 Payment Processing — Financial record keeping
Review & Rating System	Review Submission Form	§4.7 Review System — Post-event review collection
	Review Moderation Queue	§4.7 Review System — Admin tools for flagged reviews
	Rating Aggregation	§4.7 Review System — Calculating host and listing ratings
	Review Display & Sorting	§4.7 Review System — Presenting reviews to users
Trust & Safety Features	Host Verification Badge	§4.8 Trust & Safety — Visual indicator for verified hosts
	Guest Identity Verification	§4.8 Trust & Safety — Optional verification for guests
	Dispute Resolution Workflow	§4.8 Trust & Safety — Handling complaints between parties
	Emergency Contact Collection	§4.8 Trust & Safety — Safety info for event hosts
	Incident Reporting	§4.8 Trust & Safety — Post-event issue reporting
Notification System	Email Notification Templates	§4.9 Notifications — Transactional email templates
	Email Delivery Service Integration	§4.9 Notifications — Reliable email sending infrastructure
	In-App Notification Center	§4.9 Notifications — Notification inbox and management
	Notification Preferences	§4.9 Notifications — User control over notification types
	Push Notification Support	§4.9 Notifications — Mobile push notifications (Phase 2)
Administrative Dashboard	Platform Analytics Overview	§4.10 Admin Dashboard — Key metrics and visualizations
	User Management Interface	§4.10 Admin Dashboard — Searching, viewing, and managing users
	Content Moderation Tools	§4.10 Admin Dashboard — Reviewing flagged content
	Financial Reporting	§4.10 Admin Dashboard — Revenue and transaction reports
	System Configuration	§4.10 Admin Dashboard — Platform settings management
Mobile-Responsive Design	Responsive Layout System	§4.11 Responsive Design — Mobile-first CSS framework
	Touch-Optimized Interactions	§4.11 Responsive Design — Gesture and touch handling
	Performance Optimization	§4.11 Responsive Design — Image lazy loading, code splitting
Infrastructure & Deployment	Production Environment Setup	§4.12 Infrastructure — Server provisioning and configuration
	Database Migration System	§4.12 Infrastructure — Schema versioning and migrations
	Backup & Recovery Procedures	§4.12 Infrastructure — Data protection and disaster recovery
	Monitoring & Logging	§4.12 Infrastructure — Application observability
	CI/CD Pipeline	§4.12 Infrastructure — Automated testing and deployment
Testing & Quality Assurance	Unit Test Suite	§4.13 Testing — Component-level test coverage
	Integration Test Suite	§4.13 Testing — API and workflow testing
	End-to-End Test Scenarios	§4.13 Testing — Critical user journey validation
	Load Testing	§4.13 Testing — Performance under concurrent load
	Security Testing	§4.13 Testing — Vulnerability assessment
Documentation & Training	API Documentation	§4.14 Documentation — Developer reference for all endpoints
	Host Onboarding Guide	§4.14 Documentation — Written and video materials
	Admin Training Materials	§4.14 Documentation — Platform operation guides
	Technical Architecture Document	§4.14 Documentation — System design and decisions

4. Proposed Solution Overview

4.1 Technical Architecture

The solution employs a modern, cloud-native architecture built with the following technical approach:

Frontend Layer:

- Responsive web interface optimized for mobile-first usage
- Component-based UI architecture with reusable design system
- Real-time inventory updates for booking availability
- Progressive enhancement for accessibility (WCAG 2.1 AA compliance)
- Support for modern browsers (Chrome, Firefox, Safari, Edge)

Backend Layer:

- RESTful API design with resource-oriented endpoints
- Stateless request/response for horizontal scalability
- Background operations handling for external service integration
- Comprehensive error handling with structured logging and monitoring
- Rate limiting and abuse prevention for booking creation and authentication endpoints

Data Layer:

- Relational database schema with referential integrity
- Append-only audit tables for compliance tracking
- Optimized read patterns for frequent queries (search, availability)
- Database migration framework for version-controlled schema changes

Integration Layer:

- Stripe Connect Integration: Express accounts for host onboarding
- Geocoding: Google Maps API for address validation and coordinate lookup
- Email: Transactional email service for booking confirmations and notifications
- Webhooks: Event-driven processing for Stripe payment events

4.2 Key Technical Capabilities

Concurrency Control:

- Pessimistic locking for booking operations preventing overbooking under concurrent load (see business rule BR-4)
- Database-level constraints enforce event count boundaries
- Transaction isolation: Serializable for booking operations, Read Committed for browsing

Financial Integrity:

- All monetary values stored as integer cents (BR-6)
- Half-even rounding for tax calculations (business rule BR-7)
- Platform fee: 15% of ticket subtotal, calculated at booking time (business rule BR-5)
- Ledger: Append-only entries for all financial transactions (BR-8)

Data Management:

- Event Lifecycle: Automatic status transitions (Upcoming → In Progress → Completed)
- Immutable Histories: Events derived from historical records (BR-9)
- Address Validation: Confirmed by booking stage — Pre-Booking Addresses (BR-1) are approximate

Operational Transparency:

- Health Checks: Database connectivity and system status endpoints
- Error Tracking: Structured logging with correlation IDs for request tracing
- Graceful Degradation: Non-critical failures (email, analytics) do not block core flows
- Expandable Search: Map shows results within 50 miles of search center (BR-3)
- Review Eligibility: Reviews require attended status and booking in past (BR-2)

5. Implementation Approach

5.1 Methodology

We employ an iterative approach with agile ceremonies adapted for a small, senior team. Each sprint delivers working, testable functionality that builds upon previous sprints.

Development Principles:

- Test-driven development for business logic components
- API-first design: working API contracts before UI implementation
- Configuration over code: no hardcoded rates, fees, policies, or limits (BR-6000)
- Comprehensive error handling with structured logging
- Reference validation in all transactions

Quality Gates:

- Automated test execution on every commit
- Code review requirement for all changes
- Performance benchmarks for search and booking operations (BR-4, concurrent test well-purchased)
- Integration testing against Stripe test mode
- Accessibility audits for user interface flows

5.2 Risk Mitigation

Payment Integration Risk:

- Early Stripe Connect integration in Phase 2
- Webhook replay handling for idempotency verification
- Test mode validation with comprehensive edge case coverage
- Reconciliation reports for financial discrepancy detection

Concurrency Risk:

- Database constraints validate booking
- Load testing for event inventory contention scenarios
- Failure and rollback for final reservation attempts

Operational Risk:

- Comprehensive admin console for human-in-the-loop
- Dispute path logic for independent verification
- Audit trail for all administrative actions
- Documentation created for common operational tasks

6. Timeline and Phases

Phase 1 Infrastructure & Environment Setup
Duration: Days 1–3
Effort: 24 hours
Investment: $3,600

Establishes development, staging, and production environments with continuous integration/deployment pipelines, monitoring infrastructure, and database provisioning.

Phase 2: Foundation & Core Platform
Duration: Days 4–7 (sprint 1)
Effort: 80 hours
Investment: $12,000

Implements foundational systems including:

- Database schema for hosts, dinners, users, bookings
- Authentication system (passwordless email/SMS OTP)
- Host application registration and RFD API client
- Basic Stripe Connect Express integration
- Webhook processing and idempotency mechanisms
- Admin console framework with host approval workflow
- Core data models with validation and constraints

Milestone: Host can submit application; admin can approve/reject

Phase 3: Booking & Communication Core
Duration: Days 4–8 (sprint 2)
Effort: 88 hours
Investment: $13,200

Delivers core marketplace functionality:

- Guest discovery interface (dinner cards, photos, menus, map)
- Real-time seat booking with inventory control and overbooking prevention
- Stripe payment integration with PaymentIntent flow
- Payment processing for booking confirmation and payouts
- Host cancellation engine with configurable rules
- Automated refund processing for guest cancellations
- Notification service integration (confirmations, reminders, cancellation emails/SMS)
- Host dashboard showing seat sales, guest lists, expected payouts
- Webhook consumption for Stripe payment and refund events

Milestone: Complete booking flow from discovery to payment

Phase 4: Reviews, Trust & Discovery Enhancement
Duration: Days 9–12 (sprint 3)
Effort: 72 hours
Investment: $10,800

Builds trust and safety mechanisms:

- Double-blind review system (guest reviews host, host reviews guest)
- Review submission window enforcement (48 hours post-dinner)
- Post-aggregation rating calculation and display on hosting dashboard
- Review suppression until both left
- Search and filtering by cuisine, price, and dietary preferences
- Host reputation scoring (for cancellation penalties)
- Enhanced discovery with cook-out-door ordering
- Public host profiles and guest-to-dinner viewing

Milestone: Full review system and trust signals

Phase 5: Admin Tools & Platform Management
Duration: Days 9 (sprint 4, Part 2)
Effort: 40 hours
Investment: $6,000

Completes operational tooling:

- Host approval interface (refined workflow)
- Listing moderation capability
- Banning system with automated processing hooks (stub)
- Dispute resolution interface for admin (stub, "coming soon" messaging)
- Policy and fee configuration with versioning
- Payout ledger view reconciling to Stripe balance
- Basic reporting (host performance, fee revenue, bookings, repeat rate)
- Audit log viewer for all admin actions
- Bulk tools for admin actions

Milestone: Full admin control panel; platform independently operable

Phase 6: Advanced Features & Optimization
Duration: Days 1 (sprint 4, Part 2)
Effort: 40 hours
Investment: $6,000

Refines user experience and operational efficiency:

- Host calendar view with drag-and-drop dinner rescheduling
- Promotional code application in booking flow
- Automated host reminders with one-tap confirmation
- Waitlist reconciliation: automatic dinner cancellation (change in 7 hour)
- Guest dietary profile: saved preferences for repeat bookings
- Search toggle for weekly or new submission
- Loading states, skeleton screens, empty states
- Performance optimization
- Error validation and code feedback

Milestone: Platform UX polished for demonstration launch

Phase 7: Quality Assurance & Testing
Duration: Days 1 (sprint 4, Part 2)
Effort: 40 hours
Investment: $6,000

Comprehensive testing across all requirements:

- Automated test suite execution (unit, integration, end-to-end)
- Load testing: 50 concurrent users, 500 concurrent users (stress test)
- Payment flow testing with all test scenarios (success, failure, refund, dispute)
- Data reconciliation verification (Stripe transaction reports)
- Mobile responsiveness testing (iOS Safari, Android Chrome)
- Accessibility audit: WCAG 2.1 AA compliance verification
- Security testing: authentication, authorization, input validation
- Documentation: API reference, deployment guide, admin runbook

Phase 8: Training & Documentation
Duration: Days 2, Days 1-3
Effort: 16 hours
Investment: $2,400

Operational enablement:

- Founder console usage guide
- Host onboarding documentation
- Video walkthroughs
- Admin console (refund processing, review moderation, policy updates)
- Self-documentation for future integrations
- Deployment runbook and procedures
- Incident response documentation

Phase 9: Production Readiness & Deployment
Duration: Days 3, Days 2-5
Effort: 24 hours
Investment: $3,600

Production deployment and stabilization:

- Production environment configuration
- Monitoring and alerting configuration and validation
- Backup and recovery procedures
- Backup and recovery verification
- Production deployment execution
- Post-deployment monitoring
- Hand-off and knowledge transfer

Final Milestone: Platform live in production with founder approved first host

7. Investment Summary

Phase	Effort Hours	Investment
Infrastructure & Environment Setup	24	$3,600
Foundation & Core Platform	80	$12,000
Booking & Communication Core	88	$13,200
Reviews, Trust & Discovery Enhancement	72	$10,800
Admin Tools & Platform Management	40	$6,000
Advanced Features & Optimization	40	$6,000
Quality Assurance & Testing	40	$6,000
Training & Documentation	16	$2,400
Production Readiness & Deployment	24	$3,600
Total	**1,064**	**$185,000**

Payment Milestones

- **$55,500.00 (30%)** — Upon contract execution and Phase 1 completion
- **$74,000.00 (40%)** — Completion of Phase 2 (Foundation & Core Platform)
- **$55,500.00 (30%)** — Completion of Phase 3 (Booking & Communication Core)
- **$0.00 ($185,000.00)** — Final acceptance after Phase 9 (Production Deployment)

All pricing is inclusive. No additional costs. Change requests will be evaluated and priced separately.

8. Proposed Team Structure

The implementation will be executed by a dedicated team:

- Product Manager (1)
- Tech Lead / Solution Architect (1)
- Senior Backend Engineers (2)
- Senior Frontend Engineers (2)
- Mobile Engineer (1)
- QA Engineer (1)
- DevOps Engineer (1)
- Data Engineer (1)

Our Tooling

9. Quality Assurance Process

9.1 Testing Strategy

Unit Testing

- Business logic components (fee calculation, policy engine, state machines)
- Data validation and constraint enforcement
- Utility functions and helpers
- Target: >90% code coverage on business logic

Integration Testing:

- API endpoint contracts
- Database transaction integrity
- Stripe integration flows (onboarding, payments, refunds, webhooks)
- Notification delivery
- State machine transitions with database persistence

End-to-End Testing:

- Complete user journeys (host onboarding → dinner creation → guest booking → completion → review)
- Cancellation flows (guest-initiated and host-initiated)
- Refund processing with policy variations
- Admin workflows (approval, takedown, refund exceptions)
- Concurrent booking scenarios

Performance Testing:

- Concurrent last-seat purchase (AT-4 validation)
- Database query optimization under load
- API response time thresholds
- Webhook processing latency

Security Testing:

- Authentication boundary enforcement
- Authorization checks (host can only edit own dinners, guests see appropriate data)
- PCI compliance verification (card data never touches server)
- SQL injection prevention
- CSRF protection
- Address revelation access control (AT-5 validation)

Accessibility Testing:

- WCAG 2.1 AA compliance verification
- Keyboard navigation
- Screen reader compatibility
- Color contrast validation
- Form label association

9.2 Acceptance Testing

Each phase includes acceptance criteria mapped to RFP requirements. Acceptance gates include:

1. **Functional Completeness:** All features in phase deliver specified behavior
2. **Test Coverage:** Automated tests pass with coverage thresholds met
3. **Integration Validation:** External services (Stripe, notifications) function correctly
4. **Performance Validation:** Meets concurrency and latency requirements
5. **Security Review:** No critical vulnerabilities, authorization correctly enforced
6. **Accessibility Audit:** WCAG 2.1 AA compliance verified

The client will have access to staging environment for validation before each payment milestone.

9.3 Defect Management

- Critical defects (data loss, payment failures, security vulnerabilities): 4-hour response, immediate remediation
- High-priority defects (broken user flows, incorrect calculations): 24-hour response, resolution within sprint
- Medium/low-priority defects: Triaged and scheduled in subsequent sprints

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10. Next Steps

Immediate Actions

1. **Contract Execution:** Review and execute development agreement with payment milestone schedule
2. **Kickoff Meeting:** Schedule project kickoff (week of [DATE]) to review implementation plan, establish communication protocols, and confirm access requirements
3. **Access Provisioning:** Provide access to any existing resources (domain registration, hosting accounts, Stripe account)
4. **Stakeholder Identification:** Confirm founder availability for approval workflow reviews and acceptance testing

Week 1 Deliverables

- Development, staging, and production environments provisioned
- CI/CD pipeline operational
- Initial database schema deployed
- Project tracking dashboard accessible to client
- Sprint 1 planning session completed

Communication Plan

- **Daily:** Asynchronous updates via project tracking system
- **Weekly:** Sprint planning and review meetings (60 minutes)
- **Bi-weekly:** Stakeholder demo of completed features (30 minutes)
- **Ad-hoc:** Slack channel for urgent issues and questions

Decision Points

The following decisions will be required during implementation:

- **Week 1:** Email/SMS provider selection (OQ-3: options will be presented with cost/feature trade-offs)
- **Week 2:** Domain configuration and SSL certificate provisioning
- **Week 3:** Review and approve notification message templates
- **Week 5:** Review and approve initial promotional code offer for launch
- **Week 7:** Approve production deployment schedule

Appendix A: Definitions and Acronyms

- **AT-X:** Acceptance Test requirement number X
- **C-X:** Constraint number X
- **GMV:** Gross Merchandise Value (total of all bookings before fees)
- **OQ-X:** Open Question number X (resolved during M0 audit)
- **PCI:** Payment Card Industry (data security standard)
- **REQ-XX.X:** Requirement identifier from specification
- **T-Xh:** Time threshold (e.g., T-24h = 24 hours before dinner start)
- **WCAG:** Web Content Accessibility Guidelines
- **X1:** External seam 1 (Stripe integration)
- **X2:** External seam 2 (Notification provider)

Appendix B: Assumptions

This proposal assumes:

1. Kindred Table will provide Stripe account (or authorize creation of new Stripe Connect platform account)
2. Domain name will be provided or registered during Phase 1
3. Founder availability for host approval workflow testing and admin console validation
4. No integration with existing systems (greenfield implementation)
5. Demonstration deployment scope as defined in RFP (production-grade findings DEMO-WAIVED: food safety depth, sales tax automation, disaster recovery protocols, formal dispute resolution process)
6. Standard business hours support during implementation (extended support post-launch can be scoped separately)

Proposal Valid Through: [DATE + 30 days]

We look forward to partnering with you to bring Kindred Table to life. Please contact us with any questions or to schedule a proposal review meeting.

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