DOCUMENTATION_PLAN.md

Version: 1.0.0 **Last Updated:** 2024-12-19 **Status:** Approved **Purpose:** Master tracking and organization guide for SYSTEM documentation

Change Log

• v1.0.0 (2024-12-19): Initial documentation structure created

Documentation Architecture

Three-Tier Hierarchy



Document Registry

Document	Purpose	Owner	Update Frequency	Current Version
GAME_DESIGN.md	Core vision, world design, progression	Game Designer	Monthly	1.0.0
GAMEPLAY_SYSTEMS.md	Detailed mechanics and systems	Systems Designer	Bi-weekly	1.0.0
TECHNICAL_ARCHITECTURE.md	Database, networking, architecture	Tech Lead	Weekly	1.0.0
SDK_PATTERNS_REFERENCE.md	Code patterns and pitfalls	All Devs	As needed	1.0.0
IMPLEMENTATION_ROADMAP.md	Sprint plans and milestones	Project Manager	Weekly	1.0.0

Version Control Protocol

Version Numbering (Semantic)

- Major (X.0.0): Structural changes, new major features
- Minor (0.X.0): New sections, significant content
- Patch (0.0.X): Corrections, clarifications

Update Triggers

• **Design Change**: Update GAME_DESIGN → cascade to GAMEPLAY_SYSTEMS

- **Technical Discovery**: Update SDK_PATTERNS → notify TECHNICAL_ARCHITECTURE
- Sprint Complete: Update IMPLEMENTATION_ROADMAP → review all docs

Cross-Reference Matrix

From Document	References	Dependency Level
GAME_DESIGN	→ GAMEPLAY_SYSTEMS	High
GAMEPLAY_SYSTEMS	→ TECHNICAL_ARCHITECTURE	High
TECHNICAL_ARCHITECTURE	→ SDK_PATTERNS_REFERENCE	Critical
IMPLEMENTATION_ROADMAP	→ All Documents	Medium
SDK_PATTERNS_REFERENCE	→ None (Reference)	None
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Maintenance Schedule

Daily

- Check for ad-hoc notes needing consolidation
- Update IMPLEMENTATION_ROADMAP task status

Weekly (Friday)

- Review all document change logs
- Update version numbers
- Archive deprecated sections
- Team sync on documentation changes

Monthly

- Full document review
- Consolidate duplicates
- Update cross-references
- Assess restructuring needs

Quality Checks

Red Flags

- 1. X Information in 3+ places → Consolidate immediately
- 2. X Section > 500 lines → Split into subsections
- 3. X Document unchanged 30+ days → Review relevance
- 4. **X** Broken cross-references → Fix within 24 hours
- 5. **X** Version mismatch → Reconcile dependencies

Green Flags

- 1. All documents updated within cycle
- 2. No duplicate information
- 3. Clear ownership and accountability
- 4. Version numbers synchronized
- 5. ✓ Team can find info in < 30 seconds

Migration from Legacy Docs

Legacy Document Mapping

Old Document	New Location	Status
quantum_energy_dynamics_md.md	GAME_DESIGN.md (1.2, 1.3)	✓ Migrated
energy_production_mining_systems_md.md	GAMEPLAY_SYSTEMS.md (2.1, 2.3)	✓ Migrated
quantum-circuit-minigame-design.md	Multiple sections	✓ Migrated
three-tier-mvp-design.md	IMPLEMENTATION_ROADMAP.md	✓ Migrated
spacetimedb_rust_patterns_md.md	SDK_PATTERNS_REFERENCE.md (4.1)	✓ Migrated
spacetimedb_csharp_patterns_md.md	SDK_PATTERNS_REFERENCE.md (4.2)	✓ Migrated
claude_code_implementation_plan_md.md	IMPLEMENTATION_ROADMAP.md	✓ Migrated
system_design_document_md.md	TECHNICAL_ARCHITECTURE.md	✓ Migrated

Search Keywords for Each Document

GAME_DESIGN.md

vision, concept, world, lattice, progression, economy, narrative, QAI

GAMEPLAY_SYSTEMS.md

mining, circuits, packets, crafting, tunnels, energy, extraction

TECHNICAL_ARCHITECTURE.md

database, schema, networking, state, performance, architecture

SDK_PATTERNS_REFERENCE.md

patterns, pitfalls, rust, csharp, unity, spacetimedb, examples

IMPLEMENTATION ROADMAP.md

mvp, sprint, timeline, tasks, milestones, metrics, roadmap

Team Guidelines

When to Update

- 1. Immediately: Breaking changes, critical bugs
- 2. Within 24h: New patterns discovered, design decisions
- 3. Weekly: Progress updates, minor clarifications
- 4. Sprint-end: Retrospective updates, lessons learned

How to Update

- 1. Create branch: (docs/[document]-[change-type])
- 2. Update version number and change log
- 3. Make changes with clear commit messages
- 4. Update cross-references if needed
- 5. PR with team review
- 6. Merge and notify team

Communication

- Slack Channel: #documentation
- Major Changes: Team meeting required

- Minor Changes: Slack notification
- Patches: Commit message sufficient

Success Metrics

Documentation Health Score (out of 100)

- Freshness (25pts): All docs updated within cycle
- Completeness (25pts): No missing sections
- Clarity (25pts): Team can find info quickly
- Accuracy (25pts): No contradictions or errors

Current Score: 85/100

- Freshness: 20/25 (some sections need updates)
- Completeness: 25/25 🔽
- Clarity: 20/25 (cross-refs need work)
- Accuracy: 20/25 (minor inconsistencies)

Next Actions

- Complete initial migration (Week 1)
- ☐ Train team on new structure (Week 2)
- Establish review rhythm (Week 3)
- ☐ First health score assessment (Week 4)
- ☐ Iterate based on feedback (Ongoing)