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# Bundle 1 — Dual Track Execution Board & System Foundation (Sanitized)

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This bundle contains the foundational architecture for LuminAI Genesis, including TGCR framework, resonance engine, and system surfaces.

## Purpose

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- Define the resonance architecture: TGCR (Context × State × Input), Witness Protocol (W multiplier), Sixteen Frequencies.
- Specify system surfaces: Web UI (Next.js), CLI (Typer), Platform Hub (FastAPI).
- Establish repository layout and engineering rigor.

## Key References

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- **TGCR Framework:** Triple-product resonance calculus ( $R = \text{Context} \times \text{State} \times \text{Input}$ ), effective resonance  $R' = R \cdot W$ .
- **Witness Protocol:** Governance multiplier ensuring safety as non-abandonment.
- **Sixteen Frequencies:** Affective eigenmodes for persona responses and safety gating.
- **System Surfaces:**
  - Web UI: Next.js chat with real-time resonance meter
  - CLI: Typer-based orchestration

- Platform Hub: FastAPI ( `/api/chat` , `/api/resonance` , `/api/session/{id}` , `/api/personas/activate` , `/api/status` )

## Repository Layout

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```
luminai-genesis/  
├─ backend/      # FastAPI platform hub  
├─ ui/           # Next.js application  
├─ cli/          # Typer CLI  
├─ resonance/    # TGCR, witness, frequencies, engine  
├─ governance/   # Conscience axioms, witness protocol spec  
├─ docs/         # Architecture, personas, glossary, API  
├─ scripts/      # Bootstrap and dev helpers  
└─ .github/      # Workflows and templates
```

## Sanitization Note

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Original bundle (11,152 lines) contained detailed execution board transcripts, conversational logs, and uploaded artifacts. These have been replaced with this sanitized summary. For canonical specs, see:

- `docs/GEOMETRY_OF_CONSCIENCE.md` (TGCR mathematics)
- `docs/ARCHITECTURE.md` (system design patterns)
- `backend/` (operational API implementation)

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End of sanitized bundle 01.