## **9-Day Milestone Roadmap**

### **Day 1 – Phase 7 Kickoff**

* Finalize memory\_store.py logic:  
  + Store contradiction snapshots from tensor\_archive.
  + Retrieve & reinject on relevant patterns.
* Patch event\_log.py to:  
  + Log phase transitions, entropy change, contradictions.
  + Save in both JSON + SVG formats.
* Unit tests for storage/retrieval cycle.

### **Day 2 – Evaluator Integration**

* Link memory\_store + tensor\_archive → evaluator.py.
* Ensure evaluator loop handles:  
  + MEM ↔ ALIVE ↔ JAM ↔ VAC cycles.
  + Phase rotation even during contradiction resolution.
* Add hooks to pass parsed NLP structures directly into evaluator.
* Test with simple (λx. x) + JAM scenario.

### **Day 3 – Logic Hooks & External Calls**

* Finish logic\_hooks.py:  
  + Math module (basic algebra, set ops).
  + NLP module (bridge from named\_entities to logical atoms).
  + Simulation stub (placeholder for future).
* Integration test: external call during evaluation changes state without JAM.

### **Day 4 – Phase 9 Vertical Demo Templates**

* Legal vertical:  
  + Counterfactual reasoning test (If X had not happened…).
  + Contradiction handling + precedent recall.
* Medical vertical:  
  + Symptom → possible conditions.
  + Contradiction triggers archive recall.
* Scripted, reproducible runs.

### **Day 5 – NLP Vertical + Trace Presentation**

* NLP vertical:  
  + Natural language input parsed to lambda logic → evaluated.
* Add visual output (trace graph) for each demo.
* Verify nlp.parser, scope\_inference, and evaluator handshake.

### **Day 6 – CLI Interface**

* lee run demo\_legal, lee run demo\_medical, lee run demo\_nlp.
* Option flags:  
  + --trace → show detailed phase/entropy transitions.
  + --export → write JSON + SVG logs.
* Test CLI works on clean environment.

### **Day 7 – Packaging for External Review**

* Write vertical pitch README sections (2–3 paragraphs each).
* Add Jupyter notebook walkthrough for interactive exploration.
* CI/CD config: run full pytest suite + linting.
* Dockerfile for zero-dependency run.

### **Day 8 – Full System Stress Test**

* Run all tests + all demos on:  
  + Dev machine.
  + Fresh VM/Docker.
* Measure runtime, memory footprint, stability.
* Fix any JAM/phase loop inconsistencies.

### **Day 9 – Demo Rehearsal & Delivery Pack**

* Record one unbroken run-through for each vertical.
* Zip code + Docker + docs as Demo Pack.
* Push to GitHub branch v3.0-demo.
* Send to target 6 entities (research, corporate, angels).

## **Key Milestones**

* Day 3 → Core evaluation cycle is fully wired.
* Day 5 → All three vertical demos run.
* Day 7 → Shareable packaged release.
* Day 9 → Outreach-ready with docs + video