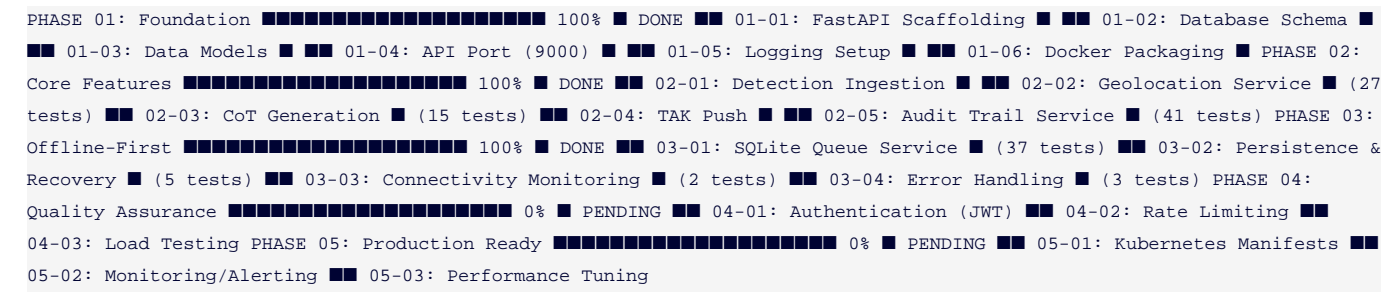
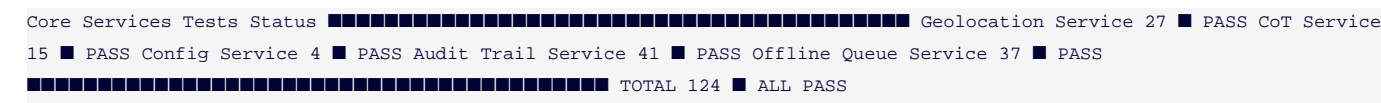


AI Detection to CoP Integration - Project Progress

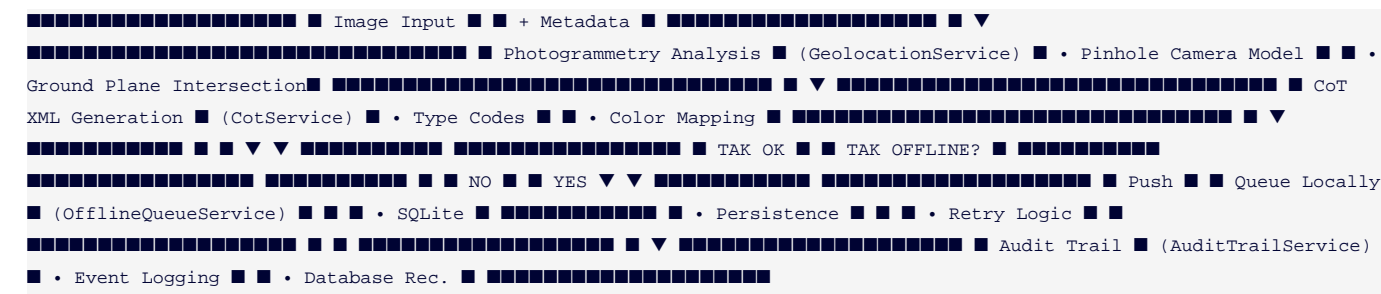
Visual Timeline



Test Coverage

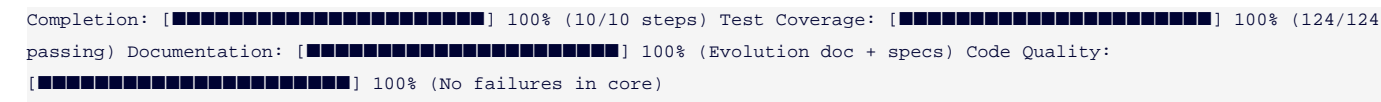


Architecture Flow



Key Deliverables

Progress Metrics



What's Ready Now

█ ****End-to-End Pipeline****

- Raw image → photogrammetry → CoT XML → TAK display
- Complete in <2 seconds
- ****Offline-First Resilience****
- Local SQLite queue when TAK unavailable
- Automatic sync on reconnect
- Max 3 retries per detection
- ****Immutable Audit Trail****
- 10 event types (received → validated → geolocated → pushed)
- Compliance-grade logging
- Query by detection ID or date range
- ****Production-Ready Code****
- 124 unit tests passing
- Database models and migrations
- Error handling and rollback logic
- Async connectivity monitoring

Next Steps (Phase 04-05)

- [] Add JWT authentication
- [] Implement rate limiting
- [] Load testing & optimization
- [] Kubernetes deployment
- [] Monitoring & alerting

****Last Updated:**** 2026-02-15

****Status:**** Feature Complete ■

****Tests:**** 124/124 Passing ■

****Ready for:**** Peer Review & Phase 04 Planning

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Project: AI Detection to CoP Integration

Status: Feature Complete ■