

Architecture and DataFlow





Lessons Learned

- Consistent naming in environment files is critical
- Data lakes can store heterogeneous schemas without issues
- Tags and timestamps make tracking easy
- UUID generation gave each entry identity

MongoDB acts as a single sink for both:

Browser-driven records

Graph-based agricultural information



Challenges

- URI formatting failed due to accidental port numbers
- Neo4j credentials caused silent fallbacks
- IndexedDB mock data produced new entries with every run
- Initial .env variables didn't sync with the script