

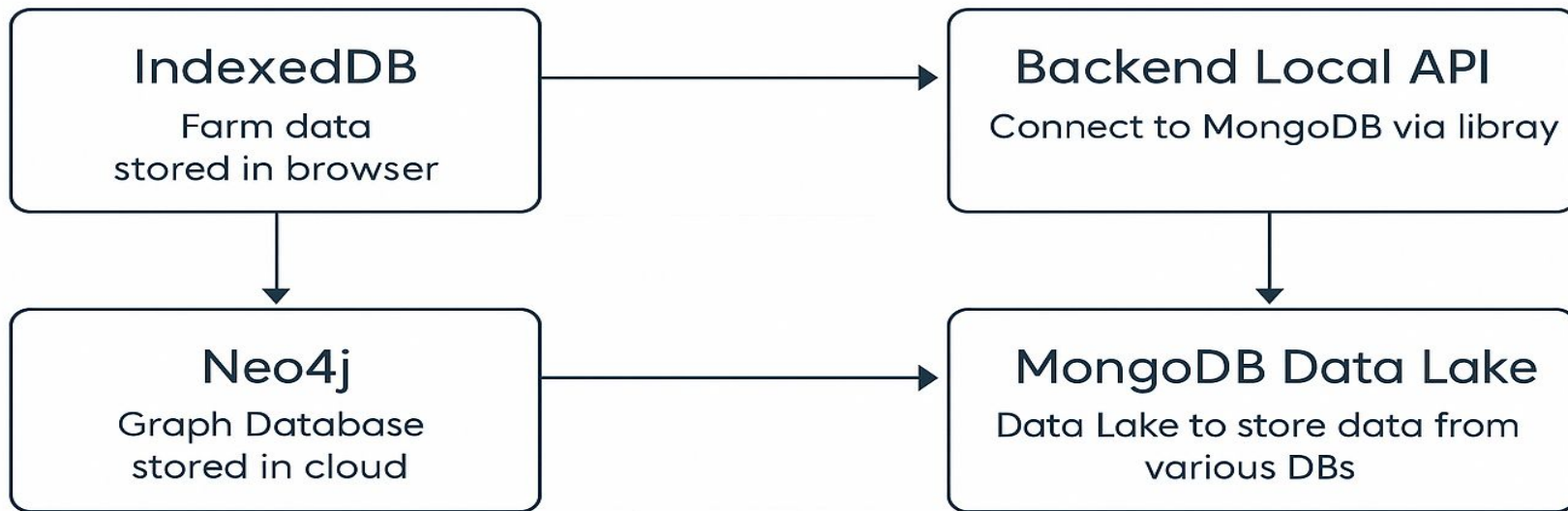
# Lab 3

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# Architecture & Data Flow

Meta Data added: sourceDB, ingestedAt, and author



Meta Data added: sourceDBB, ingestedAt, and author

## Lessons Learned

- Integration across multiple databases requires careful schema mapping.
- IndexedDB raw exports are noisy → filtering/cleaning is essential.
- Neo4j excels at capturing relationships, but indexing strategies matter.
- MongoDB Data Lake provides flexible storage for mixed datasets.

# Challenges – What Worked Well vs Not Well

## What worked well

- JSON extraction from IndexedDB was smooth.
- Neo4j queries gave clear insights into relationships.
- MongoDB handled diverse datasets effectively.

## **What did not work well**

- Large browser exports hit performance limits.
- Neo4j import tuning and query optimization took extra effort.
- MongoDB indexing required manual optimization for faster queries.