DBMS-2 LAB 3

Multi Source Data Lake Integration using MongoDB and source databases like IndexedDB and Neo4j.

Architecture & Data Flow

Meta Data added: sourceDB, ingestedAt, and author **Backend Local API** IndexedDB MongoDB Connect to MongoDB via Farm data Data Lake to store data from library stored in browser various DBs **Backend Local API** Neo4j MongoDB Read data locally with JS and Graph Database Data Lake to store data from Connect to MongoDB via Stored in cloud various DBs library

Lessons Learned

- Metadata helps with traceability and should be added to make the data more complete.
- One API for all the DBs
- MongoDB is very flexible in ingesting all forms of data
- Transform graph data to Json formatted data using cypher queries

Advances & Challenges

What Worked Well?

- API Integration went well as same API was used for both the DBs.
- Metadata was used to filter data properly.
- JSON object data made it easier to understand and format it to store in mongoDB

Challenges Faced?

- Complex querying for Graph data.
- Methods to fix bugs are different as the DBs used are also different.
- API configuration troubleshooting for CORS issues.