

Functional Programming with Scala

Project Title: Test Project

Group Name: Group 2

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- **Your Specific Contribution:**

- Designed and implemented Scala code to connect Spark with Neo4j.
- Created mock datasets for testing and validation of queries.

- **Methodology or Approach:**

- Loaded data into Spark for transformation and processing.
- Established a connection to Neo4j using the Neo4j Spark Connector.
- Wrote nodes and relationships into the graph database.
- Analyzed and filtered data using Spark SQL queries.

- **Challenges Faced and Their Resolutions:**

- Difficulty in configuring Neo4j and establishing a connection.
- Tried to solve by changing the Neo4j URL and credentials.
- Faced Spark job failures due to incorrect dataset formats.

- **Learning Gained:**

- Gained understanding of graph databases.
- Improved knowledge for data processing.

- **Future Improvements:**

- Automate data preprocessing to handle various dataset formats.
- Optimize queries for better Neo4j performance.