Functional Programming with Scala

Project Title: Test Project

Group Name: My Group

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About the Project

• Your Specific Contribution:

• My role focused on integrating and working with the Neo4j graph database. I was responsible for importing, storing, and querying CVE data (2023 and 2024) in Neo4j. I established relationships between the nodes.

• Methodology or Approach:

- Used Spark to filter and load CVE data into Neo4j
- Created nodes for CVE, Description, and ImpactScore with relationships
- Ran Cypher queries to fetch top CVEs by impact score for 2023 and 2024.

Challenges and Learning

• Challenges Faced and Their Resolutions:

- Challenge: Ensuring data from Spark loaded properly into Neo4j
- Solution: Used org.neo4j.spark.DataSource to handle the connection and data transfer

• Learning Gained:

- Gained experience in graph databases and Cypher query language
- Improved skills in integrating Spark with Neo4j

• Future Improvements:

• Enhance data filtering for more specific CVE queries