

# Functional Programming with Scala

Project Title: FP Project

Group Name: Group 6

CANTALOUBE-GIRONA Marine

IG5.Polytech

November 19, 2024

- **Your Specific Contribution:**

- Developed Scala code to load and process JSON files
- Attempted to integrate MongoDB for data storage

- **Methodology or Approach:**

- Used Spark SQL to read and process JSON files
- Implemented data transformation and analysis using Spark DataFrames
- Attempted to connect to MongoDB Atlas for data persistence

- **Challenges Faced and Their Resolutions:**

- Complex JSON structure handling - Resolved using custom schema definition
- MongoDB connection issues - Identified need for correct URI and credentials

- **Learning Gained:**

- Enhanced understanding of Spark SQL and DataFrame operations
- Importance of proper database connection configuration

- **Future Improvements:**

- Implement secure credential management for database connections
- Explore advanced Spark features for more complex data analysis

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Pageau Maxys

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- **Your Specific Contribution:**

- I tried to upload the files on MongoDB Atlas
- It failed

- **Methodology or Approach:**

- I used databricks cause I used it from the beginning for the TPs
- It was a bad idea, dependencies on it are a nightmare

- **Challenges Faced and Their Resolutions:**

- command-1842770254502927:4: error: object config is not a member of package com.mongodb.spark import com.mongodb.spark.config. *It's impossible*

- **Learning Gained:**

- To never use databricks again

- **Future Improvements:**

- There is not enough space.

# Functional Programming with Scala

Project Title: Test Project

Group Name: My Group

Thomas , COULON

IG5.Polytech

November 19, 2024

- **Your Specific Contribution:**

- added CSV to neoj4, created nodes and links between them.



- **Challenges Faced and Their Resolutions:**
  - Describe specific challenges. : Time
  - Explain how you resolved them. : no solve