

Functional Programming with Scala

Project Title: Scala Project

Group Name: Group 11

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November 24, 2024

About the Project

- **Responsible for connecting to MongoDB Atlas**
 - Building a MongoDB Atlas Connection object (singleton)
 - Creating a program to export CVE json files into an Atlas database
- **Methodology or Approach:**
 - Connection to MongoDB Atlas
 - Filtering files to export only years 2022, 2023 and 2024, due to Atlas storage limit (500MB)
 - Converting JSON files to BSON (Binary Json) files
 - Insertion into MongoDB (Atlas) as a document with error handling if insertion failed

- **Challenges Faced and Their Resolutions:**

- Connection Issues to MongoDB Atlas due to network Eduoram
- Success with another network (is Eduroam network banned ip)
- Error importing files to Atlas, file size is too large for payload (files 2023 and 2024)
- Test with smaller files (2002 and 2003): Success

- **Learning Gained:**

- Familiarize with MongoDB Atlas.
- Managing database connections with Scala
- Familiarization with the Scala language

- **Future Improvements:**

- My clairvoyant skills to see that a network is IP banned, thus preventing me from not finishing my task at all.