

# Java Exercise

Thanks for your interest in Nuix. As part of our hiring process, Nuix likes to ask candidates to complete a short exercise. It is designed to allow candidates to show off their coding skills and helps us assess a candidate's abilities.

We ask you to build the scaffolding of an application that we will further expand upon in a pair programming interview.

## Objective

One of Nuix's secret service customers has uncovered a zip file with potentially important material. We need you to build an application that can open the zip file, read the contents and upload matching parts. There will be other zip files coming but we just need the start of the application from which to build upon.

The application should perform the following functions:

- Use provided AWS credentials to download the zip file from your s3 bucket, and extract csv files from it.
- Read the CSV, search and extract lines which contain the word "ellipsis" (in any field)
- Include any lines with a match and convert into Apache Parquet format
- Name the file with the same name as the csv (e.g. matching lines in news.csv → news.parquet), and upload the files in the same S3 bucket.

AWS credentials for use will be provided outside of this document.

## Criteria

The primary goal is a well thought out, working, clean and testable application

The application should be extensible and fault-tolerant

## Next Steps

Check your code into your favourite SCM (do not place AWS credentials in the repo) and invite [syd-eng-interviews@nuix.com](mailto:syd-eng-interviews@nuix.com) to be able to read your code.

We will review your application and provide feedback

Successful candidates will be asked to attend a one-hour pair programming session where your application will be put through different unexpected scenarios.