1. Micro-services
   1. Read file and write into Kafka Stream
      1. Initially read a file and write to another file
      2. Then write to Kafka stream
      3. File:
         1. Treat each row as separate entry
         2. Write in Kafka – each row as one message
   2. Read from Kafka the above topic T1 (I.), enhance and write to Kafka as new topic T2
   3. Read from Kafka T2 and write to Elastic Search
   4. HTTPService
      1. Search in Elastic
      2. Respond with Results
      3. (Store Metrics in Cassandra)
2. Notes:
   1. All services will have:
   2. Logging
   3. Config.
3. Testing:
   1. Unit Testing:
      1. Whatever we can test from Scala tests we do it there
      2. Whatever we can’t test from Scala, we will do it from shell scripts
   2. Integration Testing:
      1. After building every units, perform unit testing
      2. Then combine with previously unit tested units and perform integration tests incrementally to check after combining exactly which unit is it failing
   3. System Testing:
      1. We test the system as a black box
      2. We will use Postman to test our entire system
   4. Performance / Load Tests
   5. Acceptance Testing