**DEMO CHUNK ORIENTED AFU:**

**READERS:**

1. FlatFiles (CSV)
   1. FlatFileItemReader (1 file)
   2. MultiResourceItemReader N files (Minella 193-197)
   3. Configurazioni
      1. Source
      2. LineTokenizer
      3. FieldMapper
      4. LineMapper
2. Xml
   1. StaxItemReader
   2. Config
      1. Source
      2. Marshaller
3. Jdbc
   1. Config
      1. datasource
      2. Query
      3. Mapper
      4. PreparedStatementSetter (?)
   2. Modalita
      1. org.springframework.batch.item.database.JdbcCursorItemReader  
         (Cursor processing)
      2. org.springframework.batch.item.database.JdbcPagingItemReader  
         Page processing
4. Hibernate
   1. HibernateCursorItemReader,
   2. HibernatePagingItemReader"
5. Jpa
   1. JpaPagingItemReader (No Cursor supported?) -> Verificare
6. ItemReaderAdapter, ItemProcessor Adapter, ItemWriterAdapter
   1. cardinalita
7. Implementazione custom di ItemReader
   1. Stateful? Quasi sempre si -> ItemStreamReader
   2. ResourceAwareItemStreamItemReader, (Resource)

**PROCESSORS:**

1. Chaining Processors
   1. Filters
   2. eccezioni

**WRITERS:**

1. Csv
2. Xml
3. Jdbc

**FAULT-TOLERANCE:**

1. Eccezioni Deterministiche
2. Eccezioni Transitorie
   1. Eccezioni Skippable
   2. Eccezioni Retriable
   3. Eccezioni Rollback
3. Gestione rollback
   1. Flat
   2. Xml
   3. Jdbc
   4. Jms

**DEMO TUTORIALS:**

[**http://www.mobilefish.com/services/random\_iban\_generator/random\_iban\_generator.php**](http://www.mobilefish.com/services/random_iban_generator/random_iban_generator.php)