

Slice 3

Hivilake refactoring - Framework for extention

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1 Difficulty in Implementing

2 Re-design

Section 1

Difficulty in Implementing

Implement old design

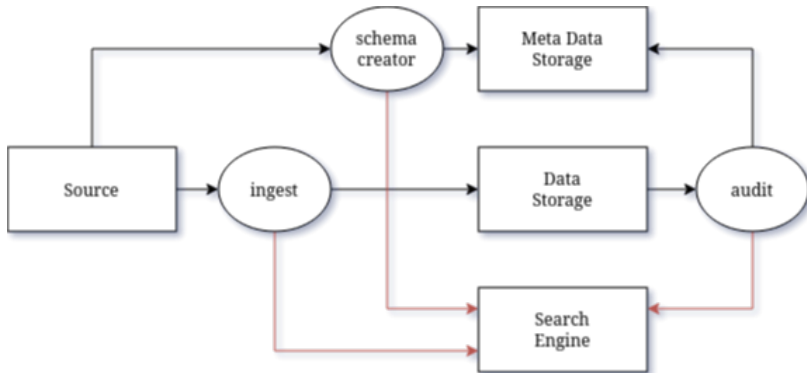


Figure 1: Datalake Processing

Hard refactor time

```

Alacrity
32b4d1b8fcc8620d93135214b95d37516304631 (HEAD -> master, origin/master) LH : [FIX] refactor doc for easier structural reading
139d09ee98caa9d5566bfb91b6b1ef9550f71e72 LH : final commit file before merge to master
c71fb7049542bda2a7214584d801ac966520f55e LH : [FIN](refactor) build common-hadoop and refactor process package using common-hadoop
2d1669c07ad98f827a9cc4916c477b594a9cc1e7 LH : [WIP](refactor) rewrite ingest using storage class
67075fa234911df1a750f4a5eda1d4e0035e763a LH : [WIP](refactor) build basic functional class for handling hadoop access
8aed7b0bd332cea891d85c5a8864e4a51a31af5d LH : [WIP](refactor) developing storage class for handling storage access
672a4d480d5315fc8a4703e24d3344d3de86f003 LH : [WIP](refactor) create module for hadoop access handler
1db3f370e907aad8453ddcf9a6d6e55b92bbd801 LH : [WIP](refactor) add XML dependency to local pom and remove orphans in global pom
7e2886a10082d7d9202ed0b72ab42e1e91ce8e86 LH : [WIP](refactor) replace old DOM w3c parser by XMLParser + JAXB
477668190b78bfb9c8d2d46f89ef46679aa2f91 LH : (XML Model) build schema object model for SOF file
fe48bdb56e4bbf02e302803f5faf9f8f2c09ad9f LH : [WIP] build xml parser for better work with xml file
ba5315b63ac27ac004e8bba881d4a7de3d69ba84 LH : [FIX](CRUD func of metadata) change insert mechanism
dddb6a6eeac98ffe8b648a9050b16162001ca02 LH : implement CRUD func for delta metadata table
1f23c8b76f3d465b36d3830599124d86bb4918fa LH : [WIP] wrap DeltaTable for easier process
1abbe918566731e35e0c587ba1ec37677178c95e LH : add new source for delta table doc
cd14ff36d2a58a3bc0cce17925fe208919f8959c LH : [WIP] func update table

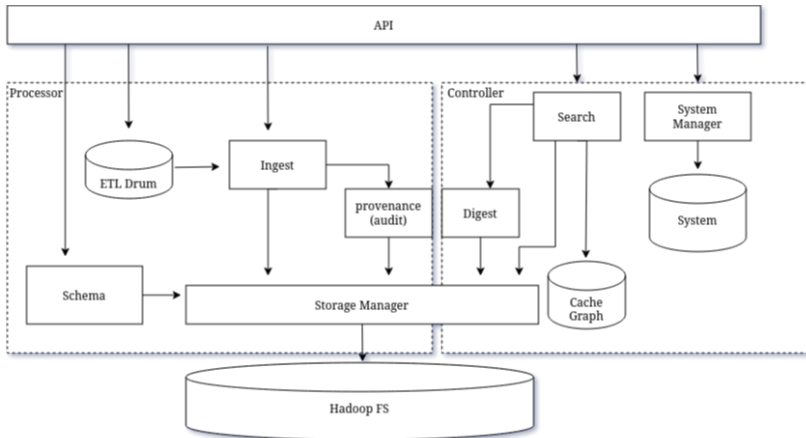
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Figure 2: Refactor Time

Section 2

Re-design

Re-design



Key Constrain

- ① The class should implement a really needed interface only.
- ② The class inherit is preferred than a new class.
- ③ A interface should only include a limited properties following its name.
- ④ SM should has its own pre-define set of exception and interface raise them only.

Key Constrain

- 5 A good and detail document is necessary for both class, interface and exception.
- 6 The number of interfaces should not be obstacle, if the storage system has a new properties can not merge to any exist interfaces, then it deserves a new one.
- 7 The interface should be the only road to communicate with SM.
- 8 Each SM should provide a unique factory class.

New Design Expected of SM

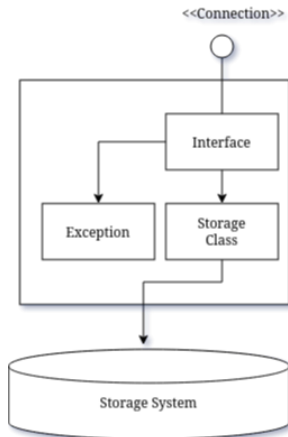


Figure 4: Detail System Manager Diagram