An Introduction to My Flink Project
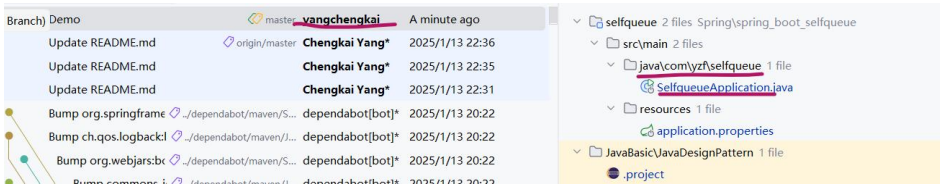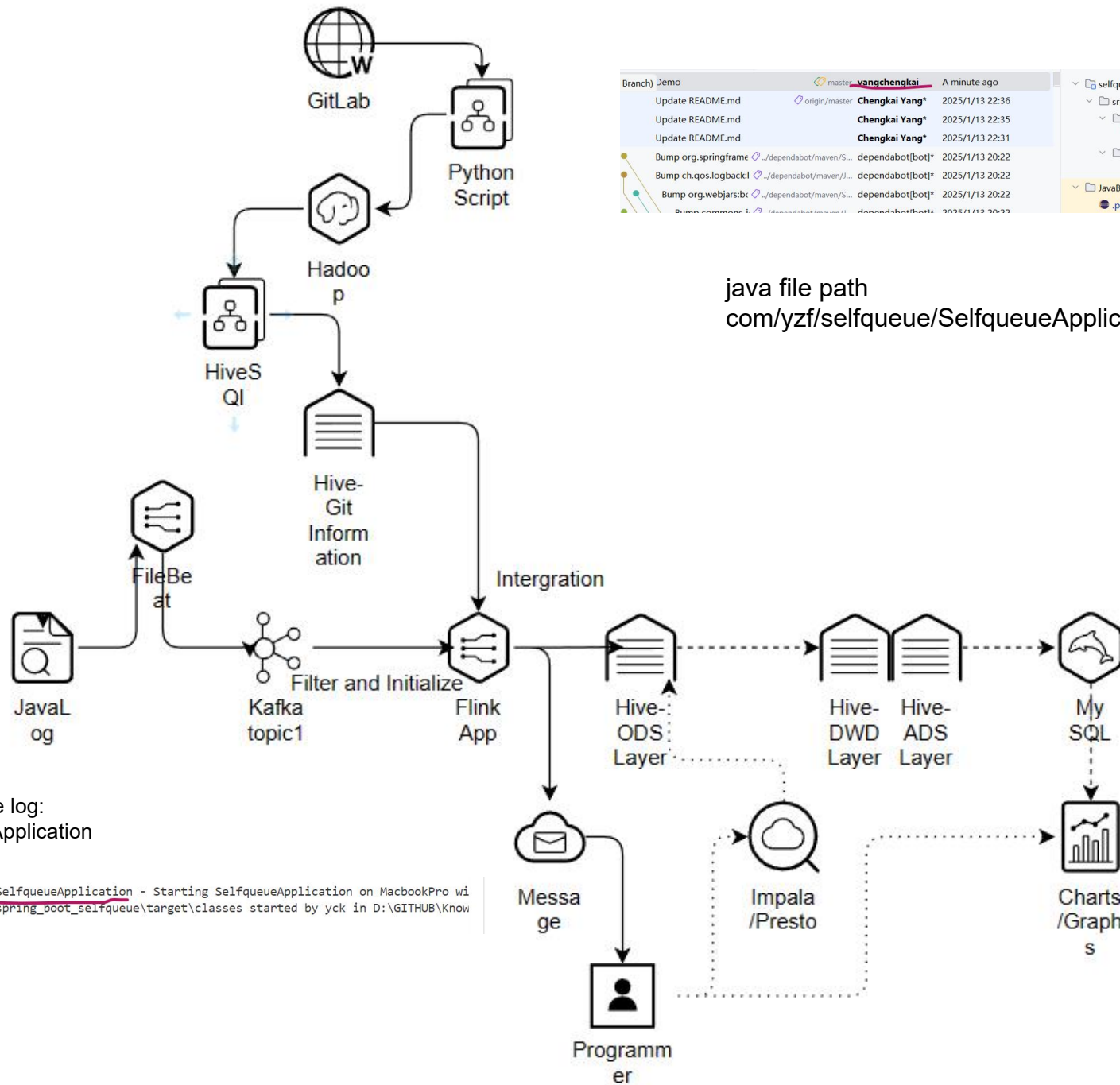
Chengkai Yang

CONTENTS

What is Flink?

- A Bigdata framework for real-time processing

- Layered APIs: Flink SQL, Flink ML, Flink Core API,Flink Stateful API

The goal of my Flink project

- Help programmers find bugs

  - Collect and process those online error logs in real time

  - Find the programmer who developed the interface

  - Send them the error log

Architecture of the whole project

GitLab

Python Script

Hadoop

HiveSQl

Hive-Git Information

Intergration

FileBeat

JavaLog

Kafka topic1

Filter and Initialize

Flink App

Hive-ODS Layer

Hive-DWD Layer

Hive-ADS Layer

MySQL

Message

Impala /Presto

Charts /Graphs

Programmer

selfqueue 2 files Spring\spring_boot_selfqueue
  src\main 2 files
    java\com\yzf\selfqueue 1 file
      SelfqueueApplication.java
    resources 1 file
      application.properties
  JavaBasic\JavaDesignPattern 1 file
    .project

java file path
com/yzf/selfqueue/SelfqueueApplication.java

Java class path showing in the log:
com.yzf.selfqueue.SelfqueueApplication

```
2025-07-13 20:16:01.042 [restartedMain] INFO  com.yzf.selfqueue.SelfqueueApplication - Starting SelfqueueApplication on MacbookPro wi
th PID 9480 (D:\GITHUB\KnowledgeGraphforBigDataEngineers\Spring\spring_boot_selfqueue\target\classes started by yck in D:\GITHUB\Know
ledgeGraphforBigDataEngineers)
```