Task: Add Distributed Tracing Capabilities to Data and Auth services.

1. Example: data api tracer code configuration

```java
App.java 23    AuthFilter.java    App.java

 1  package com.webage;
 2
 3
 4⊖ import org.springframework.boot.SpringApplication;
 5  import org.springframework.boot.autoconfigure.SpringBootApplication;
 6  import org.springframework.context.annotation.Bean;
 7
 8  import com.uber.jaeger.Configuration;
 9  import com.uber.jaeger.samplers.ProbabilisticSampler;
10
11  @SpringBootApplication
12  public class App {
13
14⊖     public static void main(String[] args) {
15         SpringApplication.run(App.class, args);
16     }
17
18⊖ @Bean
19  public io.opentracing.Tracer jaegerTracer() {
20      return new Configuration("data-api", new Configuration.SamplerConfiguration(ProbabilisticSampler.TYPE, 1),
21          new Configuration.ReporterConfiguration())
22          .getTracer();
23  }
24  }
25
```

2. Example: auth api tracer configuration

```java
App.java    AuthFilter.java    App.java 23

 1  package com.webage;
 2
 3
 4⊖ import org.springframework.boot.SpringApplication;
 5  import org.springframework.boot.autoconfigure.SpringBootApplication;
 6  import org.springframework.context.annotation.Bean;
 7
 8  import com.uber.jaeger.Configuration;
 9  import com.uber.jaeger.samplers.ProbabilisticSampler;
10
11  @SpringBootApplication
12  public class App {
13
14⊖     public static void main(String[] args) {
15         SpringApplication.run(App.class, args);
16     }
17
18⊖ @Bean
19  public io.opentracing.Tracer jaegerTracer() {
20      return new Configuration("auth-api", new Configuration.SamplerConfiguration(ProbabilisticSampler.TYPE, 1),
21          new Configuration.ReporterConfiguration())
22          .getTracer();
23  }
24  }
25
```
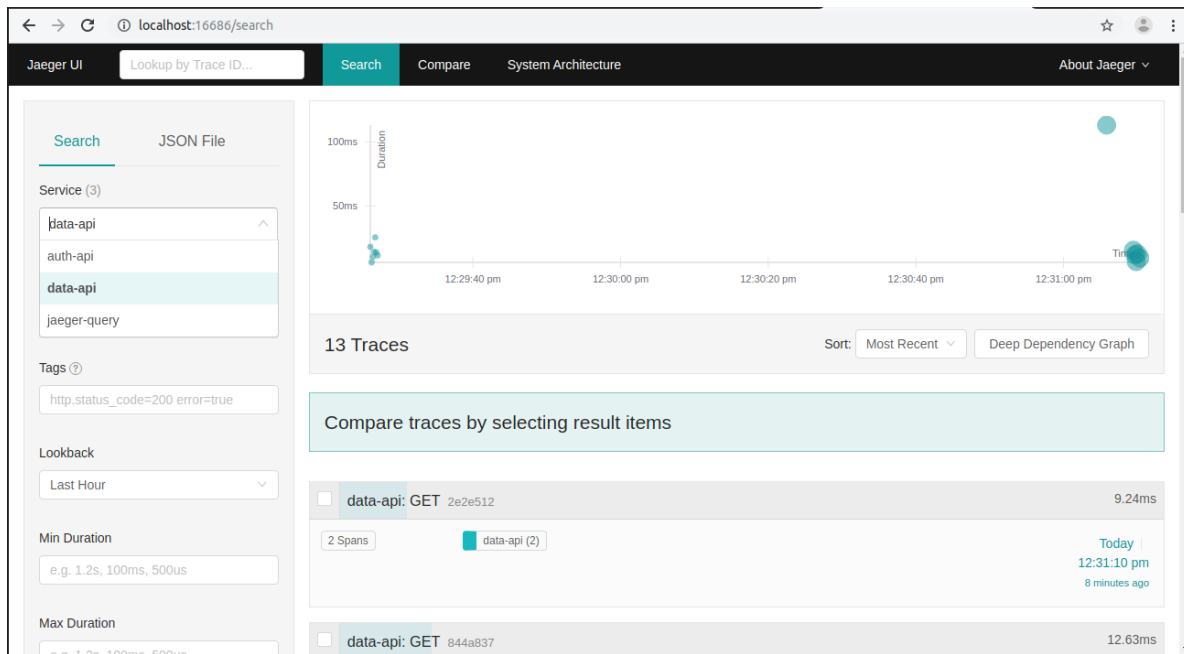
3. You may modify the code. Make sure you get all dependencies using gradle build.

4. Launch both data and auth api instances. I started standalone instances.

5. Open a terminal and use the following command to get a docker image for jaegertracing and run the container

```
osboxes@osboxes:~$ docker run --rm -it --network=host jaegertracing/all-in-one
Unable to find image 'jaegertracing/all-in-one:latest' locally
latest: Pulling from jaegertracing/all-in-one
```

6. Once the container is up and running, open browser window and go to
http://localhost:16686

7. Have fun with traces !