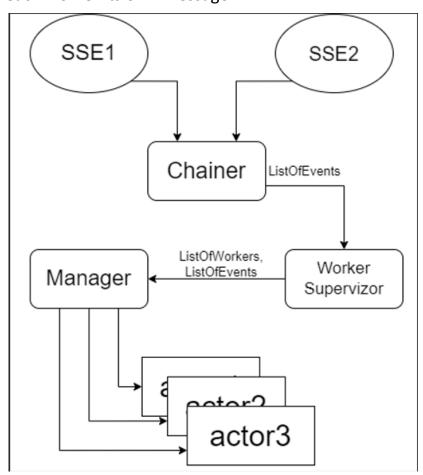
Checkpoint #1

For the first checkpoint, it was necessary to draw a diagram of the logic of the program for processing **SSE** tweets. I plan to use Scala as programming language and Akka as toolkit. The steps of the work are carried out as follows:

- 1. The so-called **Chainer** connects to two streams to receive event from them. Each of events is consisted of the message that contains JSON object there can be found different attributes such "tweet", "user", "description" and so on. Here events do not immediately go to be processed in another part of the program. The **Chainer** puts all the events it received in a second into the list-buffer and only then sends them to **Worker Supervisor**.
- 2. In **Worker Supervisor**, workers are created, the number of which depends on the number of events received from **Chainer** in a one-to-one ratio. This number of events is equal to length of the list-buffer. These workers are also placed in the list-buffer, and then sent along with events in list-buffer to the **Manager** at the same time.
- 3. The next step **Manager** iterates both buffers of workers and events that he received from **Worker Supervisor**. During the iteration, the **Manager** sends each worker its own message.



- 4. After receiving event, worker processes it by retrieving data and converting events to messages that are JSON object, and then self-deletes it.
- 5. Also, there is the **Main Supervisor** which creates some actors that there had been discussed above such as **Manager**, **Chainer and Worker Supervisor**.

