Segment -> Field -> Component -> Sub-Component

What We’ve Done:

* Keep in mind these are all assignments laid out by our course.
* **Vision Statement:** Not really interesting to talk about
* **User Research/Stories:** Didn’t do user research cause product doesn’t have traditional users. Main stories we identified were relative to “CDC IT specialists”, specifically, how we want information to be consolidated, how we want through and straightforward documentation, how we want to preserve data integrity, etc).
* **Decision Support Document:** Had two criterion for this document; deciding on the method to split HL7 segments into JSON, and deciding on the database. For the method, we decided to parse HL7 file line by line, where each line is a segment (handling individual lines is much easier). Also, individual lines have relatively predictable structures (makes our regex matching easier to implement). For database, we settled on mongoDB.
* Currently have a prototype that parses HL7 messages into individual lines, where each line is a segment of the HL7 message. Segway into “What we need help with”

What We Need Help With:

1. Need metadata for the converter used? (specifically, the JSON object “extractor” in the example file that you gave us)
2. Why are the fields of segments out of order? Do you need them in any specific order?
3. Can we have a source for JSON organization for all HL7 messages we have to handle, specifically, for arranging each segment (i.e. "ORU\_R01-PIDPD1NK1NTEPV1PV2ORCOBRNTEOBXNTECTI"). ORU-R01 is the message type (specifically, observations/results from producing system to ordering system). Top of the JSON hierarchy is a grouping of segments, I need to know which segments to group (or does it matter?). I know you might not know the exact specifics for each compatible message type, but is there anyone that might?
4. Once we import these JSON files into our database, I’m just confirming that queries for the data will use unspecified field headers. For example, “OBX-1”: “…”
5. Will we ever need to account for erroneously formatted HL7 messages?