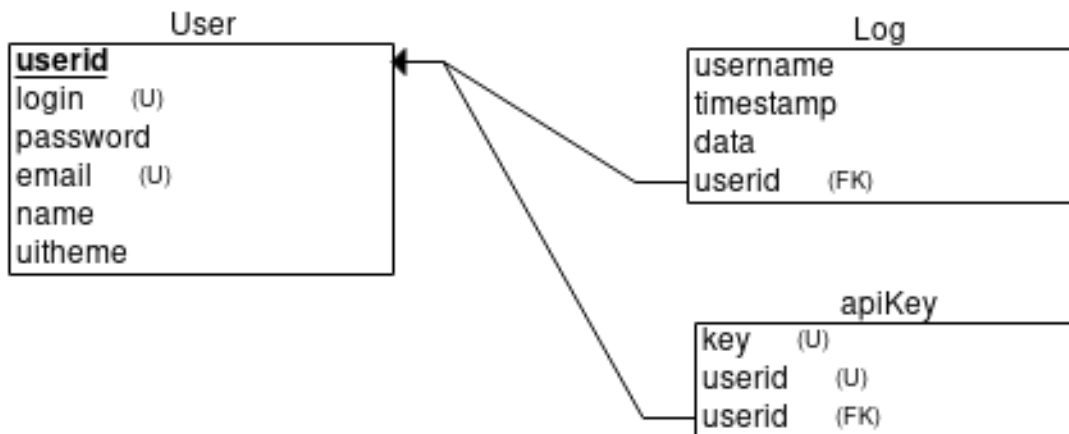


# IMPORTANT DATA CONSIDERATIONS

## E/R Diagram of Laaps.



This is the E/R diagram of laaps. But we did not use any relational database. We used elasticsearch for logs and Redis for apikeys. There is an index for each user in elasticsearch.

The considerations is that JSON used all across the application. Client libraries sends the data as JSON(as a string) and log services get data as string then maps to struct. Also It is easy to put data to elasticsearch when it is in JSON format. Since we have data flow always JSON is over the XML because JSON messages are small than XML messages. Representing collections is easier in JSON. Since client library sends chunk data, collections are used in data format.