Idea: Application which can collect statistics from multiple sources and post it to destination applying aggregations or historical comparisons

Functional:

Collect statistic unlimited implemented sources Compare statistics with historical data Send result to Telegram

Non-functional:

Online data collection Idea: Application which can collect statistics from multiple sources and post it to destination applying aggregations or historical

comparisons It can be man posted? sources of the nternal or Data is Send Compare Collect statistic external collected by trigger? unlimited statistics with Collect result to eplace concreti system implemented historical statistic some **Functional:** Telegram sources from data trigger Webhook YouTube Where? In channel or in message? And how, from user, Aggregation Data Collect statistic should How, how the message should look, change of one value or some group of metrics from be stored telegram **Trends** Online Downtime is No more Implement Rollout Java/Kotlin acceptable if Nondata than 1min on 1 + Linux it is less pipeline collection timelag server functional: than 1min



Ask about each point directly, what it should include

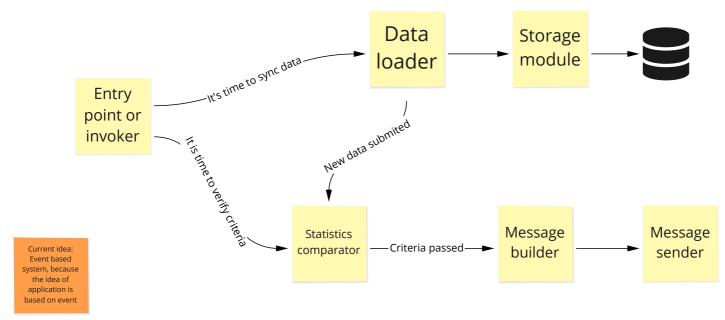
What about hardware limitations?

software limitations?

Possible load?

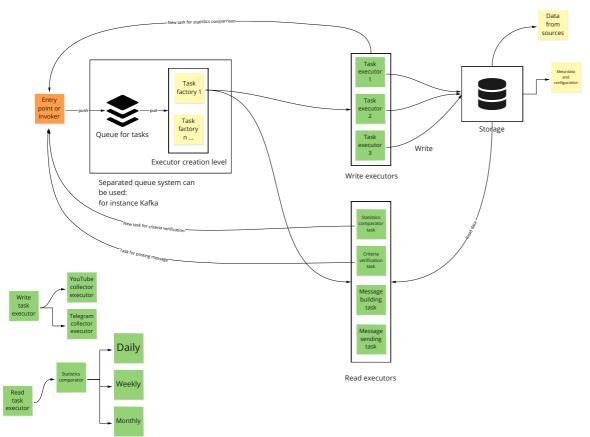
What aspects of CAP should be taken into account? https://e n.wikipedia.org/wi ki/CAP_theorem

Modules definition



As a plus it has possible decupling for microservices in case of high load For con: eventual consistency and not latest data

Solution definition



pros/cons







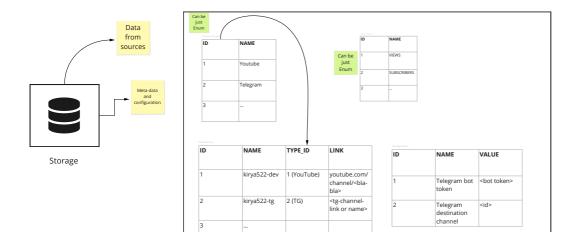
Observations:

Data is stored
by time, time-
series
database may
be useful

Data need to have some TTL policy







Relational storage

D	DATE	DATA_SOURC E_ID	METRIC_ID	VALUE	
	21:36 14/08/2022	1 (kirya522- dev)	1 (views)	1338	
2	21:35 14/08/2022	2 (kirya522-tg)	2 (subscribers)	320	
3					

Time-series storage