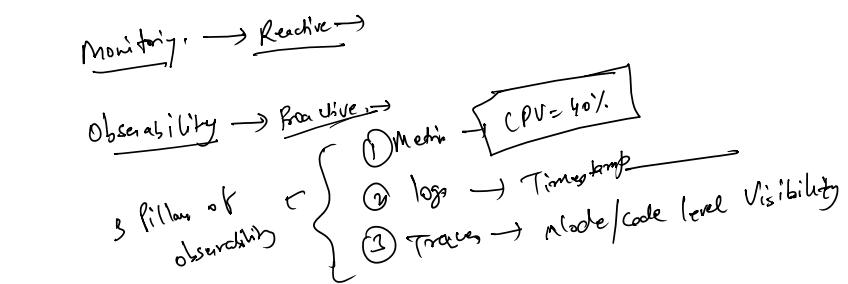
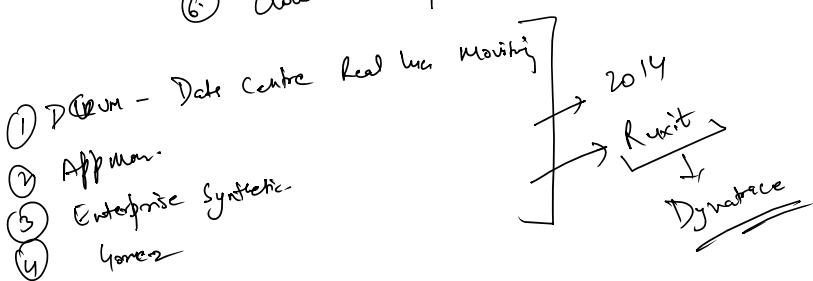


- ① Engine.
- ② Cost
- ③ Community support



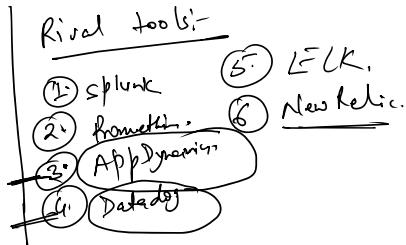
① Dynatrace - observability tool

- ① Log Monitoring
- ② Infra "
- ③ Container "
- ④ DB Visibility
- ⑤ End user monitoring
- ⑥ Cloud Monitoring



2 Flavours

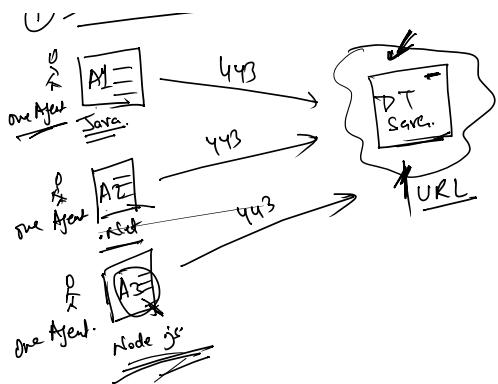
- ① SaaS.
- ② Managed.



① SaaS Architecture

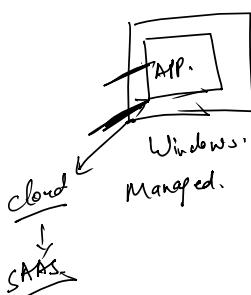


One Agent :- Agent/App. DT one
Depends on OS.

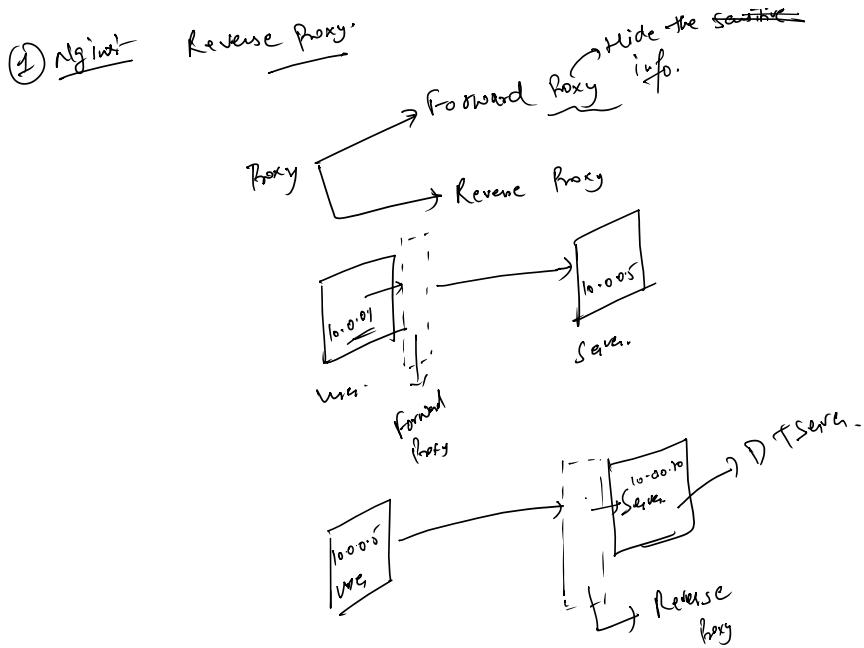


One Agent - Agent/App DT one
Depends on OS.
Win. Linux.

DT Server Component:-



- ① Nginx -
- ② Elastic Search -
- ③ Cassandra Hyperspace -
- ④ DT Server -
- ⑤ Embedded Active Gate -



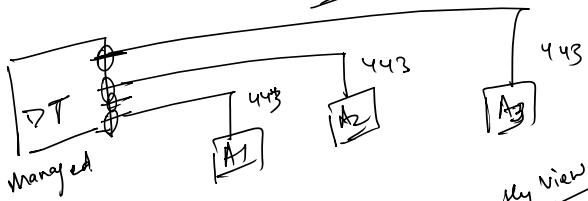
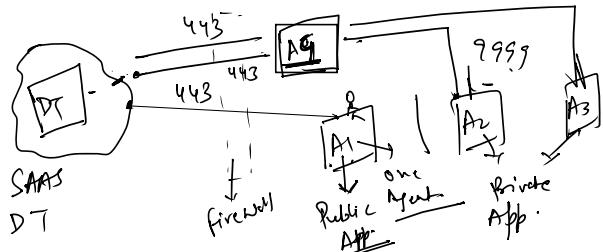
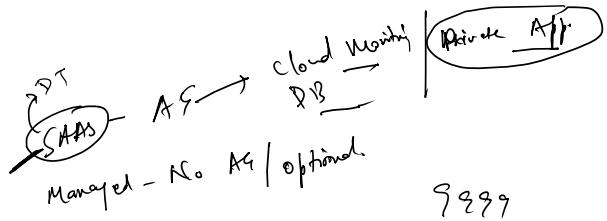
- ② Elastic Search - Engine that Analyze the data.

③ Cassandra Hyperspace - DB distributed database where data is stored.

④ DT Server - Collect, Process & Analyze.

⑤ Embedded AGI - Collected data from DT Server.
 ↳ Cloud ③ Private App. Monitoring.
 ↳ DB

Cloud Monitoring | Private App.



SAAS = Software as a Service.

Monthly view access
end user (client)

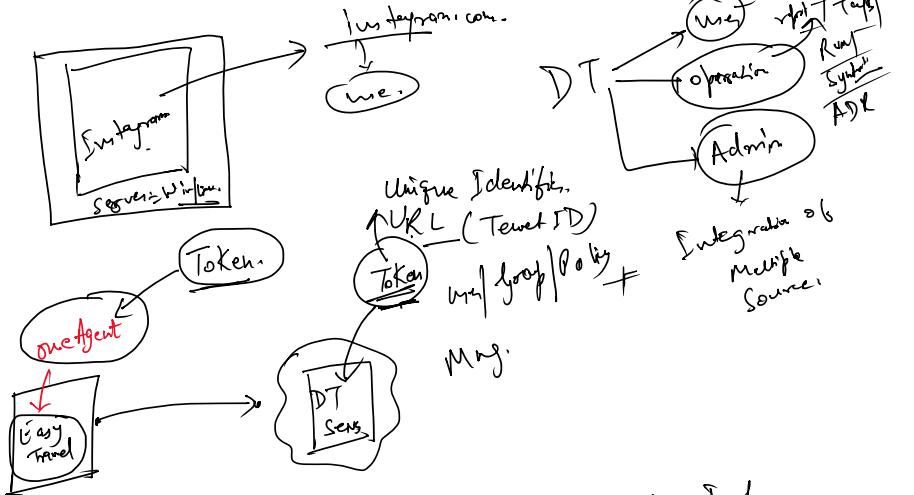
View Dashboard

Dashboard

Run Test

Run System

ADL



Monitoring Mode → full stack → ATM, RUM, JFR.

→ Inference → JFR.

→ Discovery → High level Metrics collection.

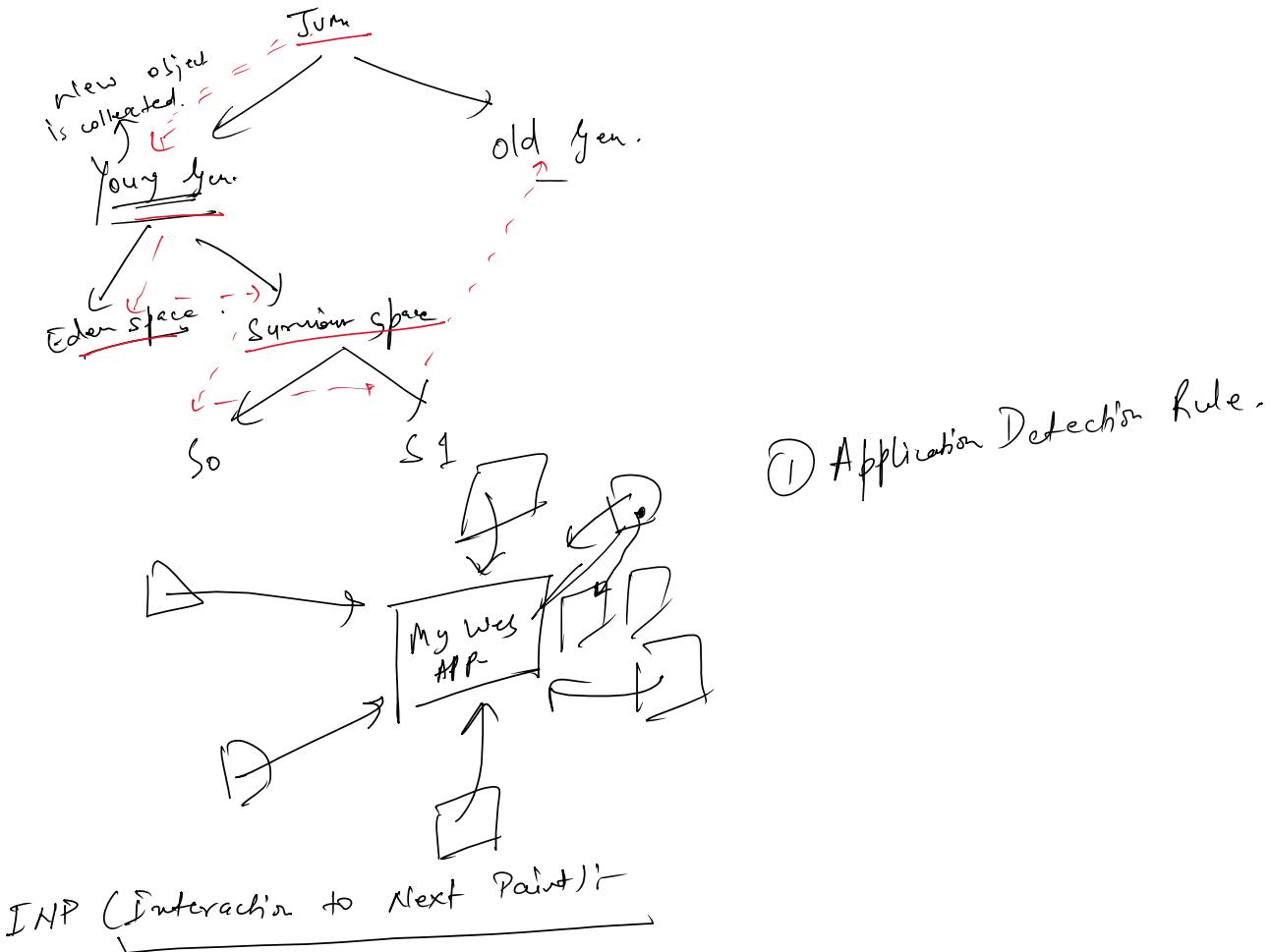
JVM - Java Virtual Machine - Allows Task App to run on any platform.

⑤ JIT (Just-in-time) compilation.

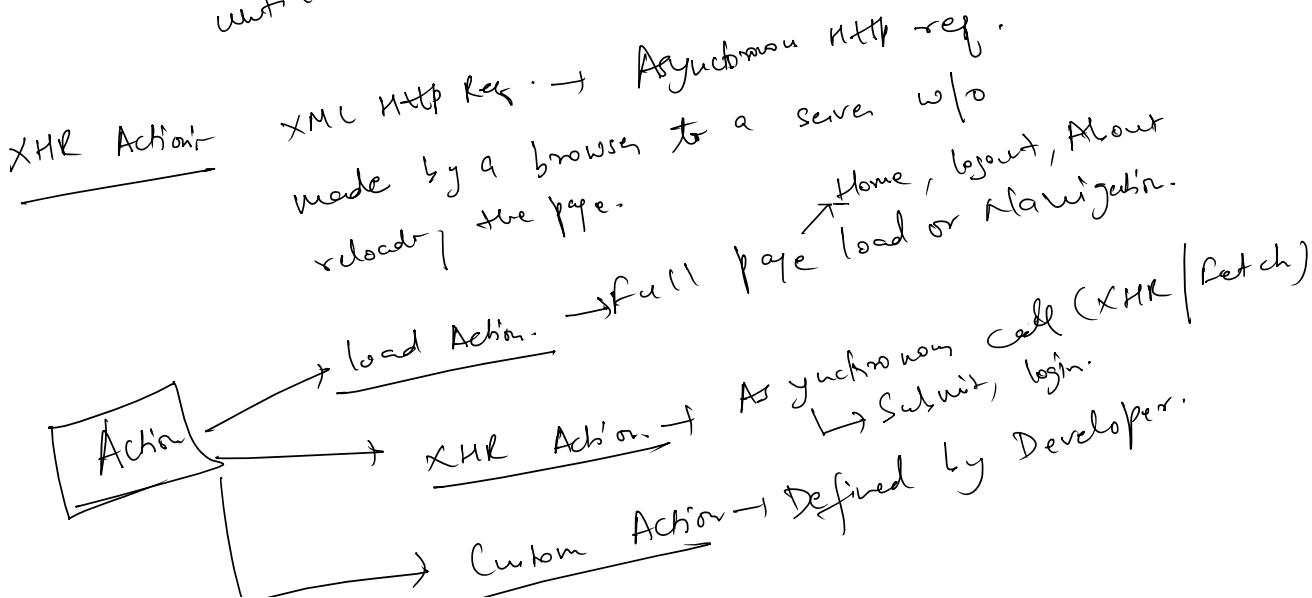
- ① Memory allocation.
- ② Garbage collection.
- ③ Thread scheduling.
- ④ Class loading.

Garbage - ~~Identify~~ Identify & Remove unused objects from Heap, so that they can be reused - saving eff. memory

garbage - ~~Identify~~ Identity & Remove unused objects from memory
space can be reused - ening eff. memory utilization & prevention.

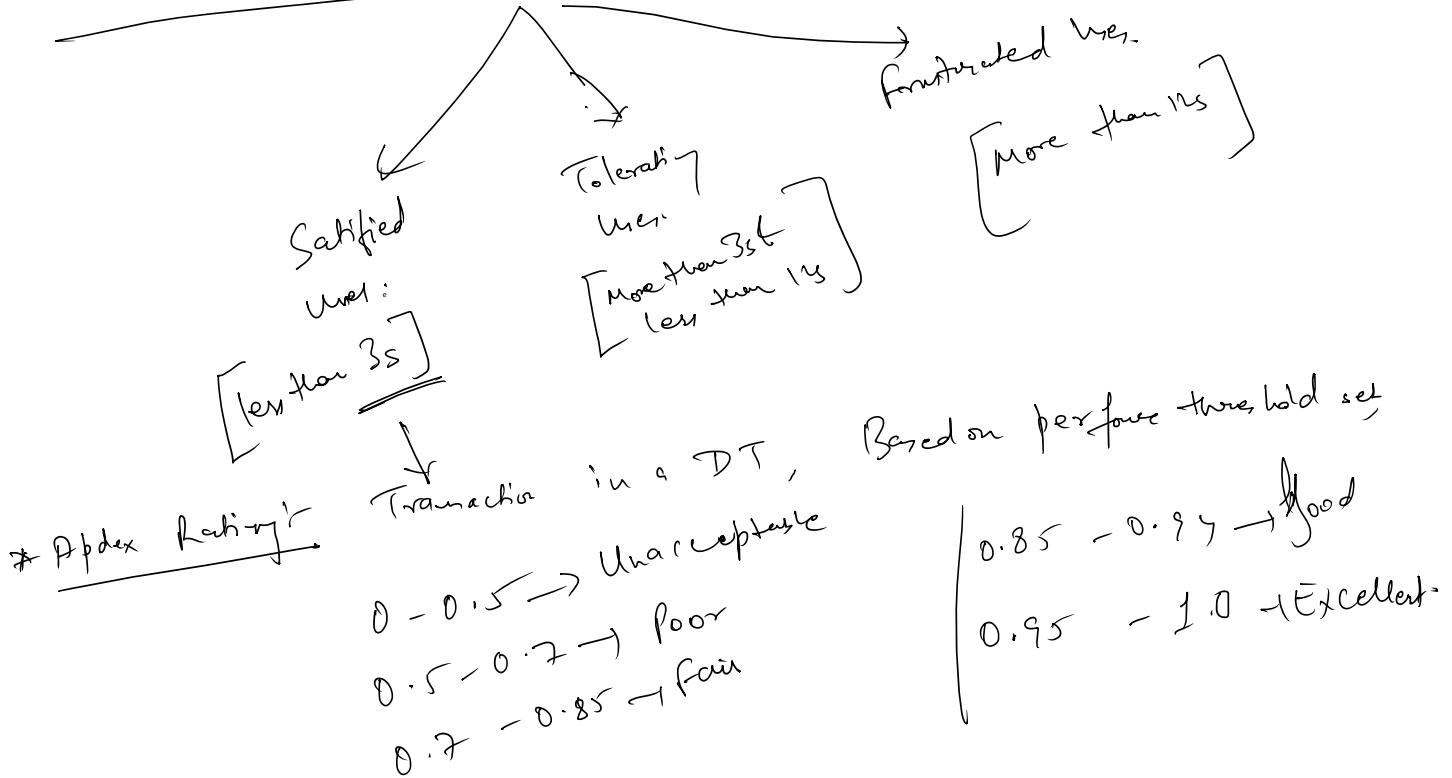


INP (Interaction to Next Point)
Responsiveness of a webpage.
How long it takes for a time a user (click, tab, type)
until the next frame is painted.

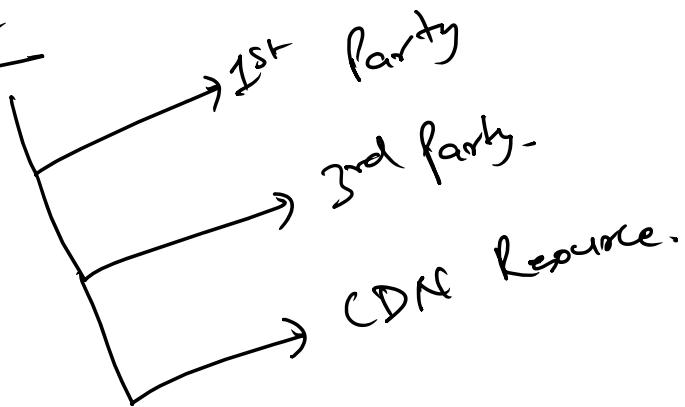




KPI (Key Performance Indicator):-



Web Resource



① 1st Party Resource: Served from the same domain.

zomato.com | cont.jcp

② 3rd Party Resource: Load from external Domain not owned by you.

② 3rd Party Resource:- Load from external
Owned by You.

connect. fl. net / sdk js

③ CDN (Content Delivery N/W) Resources

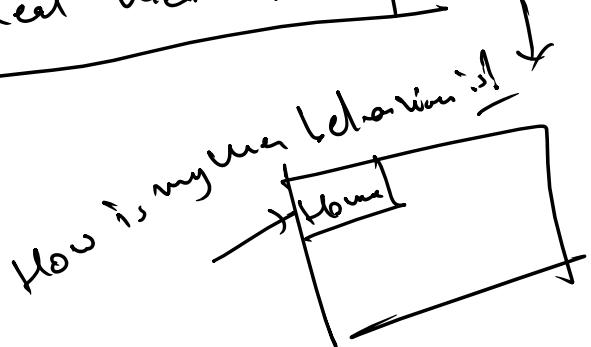


End User Monitoring:-

RUM (Real User Monitoring)

Synthetic Monitoring

① RUM (Real User Monitoring):- User Behavior.



Bounce Rate:- percentage of session → enter - leaves w/o any interaction.

(No clicks, no scrolls, no XHR, no navigation)

$$\text{Bounce Rate} = \frac{\text{Single-Page Session}}{\text{Total Session}} \times 100$$

Bounce rate = $\frac{171}{\text{Total Session}}$

200 users visit a page & leave w/o doing any further action = $\frac{50}{200} \times 100 = 25\%$

[High Bounce → user not finding relevant info or slow loading page.
low Bounce → user visiting multiple pages or engaging with content.]

Blog | Content → 60 - 80% → good > 85% concern

E-commerce → 20 - 45% → good > 60% concern

Landing Page → 60 - 90% → good > 90% concern

Portals | Apps → 10 - 30% → good > 50% concern.

Beacon Endpoint → Server URL that receives Asynchronous telemetry

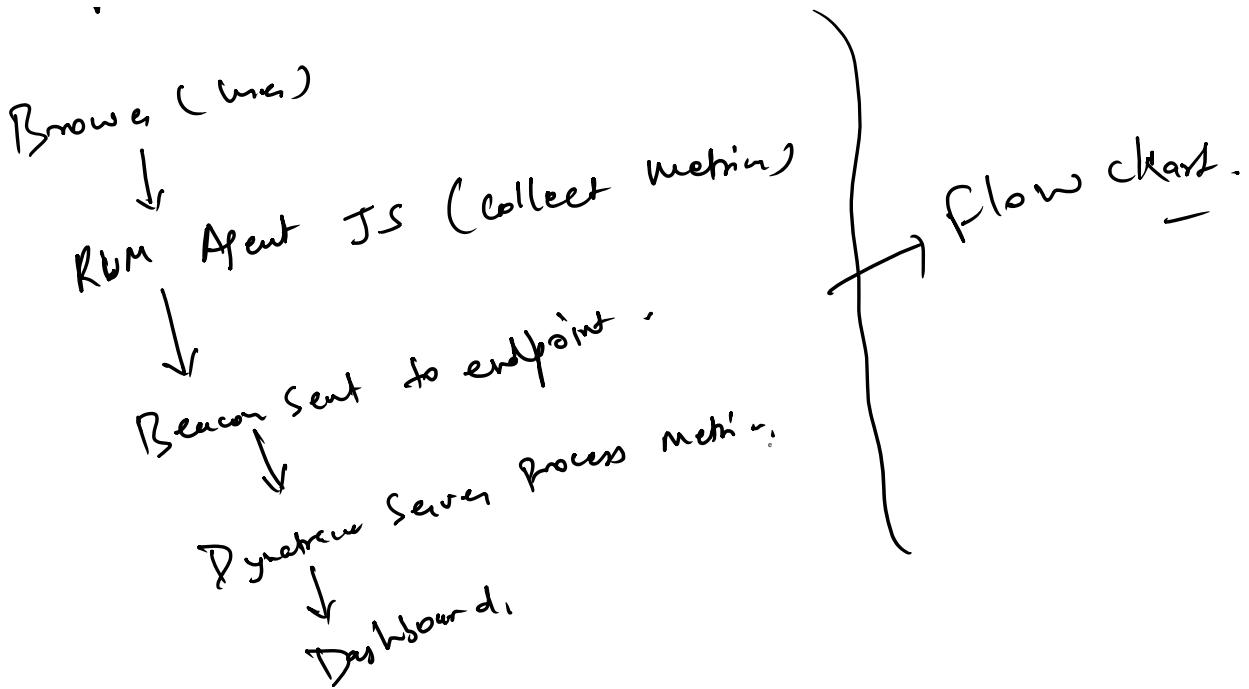
data, user behavior, performance & error

Beacon Endpoint -

where message lands.

Beacon

↓
Message



Fallback Metrics Threshold

Backup Performance Indicator where primary metric can't be captured.

① MozillaJS 0 ()
↓
user-Agent

② JS Execution check.
RUM Beacon not sent.
Beacon data = real user

③ Behavioural (4) touch event.
① Scroll
② clicks
③ Actions

④ IP | CPU | ASN

④ TP | NW | ASM

Rage click :- Repeatedly click/tap the same UI element or area.

Click tree buffer → Missing event Handler.

Backend | XHR Delay.

CSS/2-index bug

Multiple → slow XHR | High IWP