Video Streaming Service (Youtube, Netflix. Amazon Prime, HotStar Ullu (S)

Functional Requirements: nuploading a video 21 playing a viideo 3) User's Home Page 4) Search 5) Support on all devices Non-Functional Requirements: 1) No Buffering (Low Latency + High Availability aluser's session Time (" ") ¿cale: PAU: 1B Iday uploads per min: 150k views per min: 500m MAU: 3B

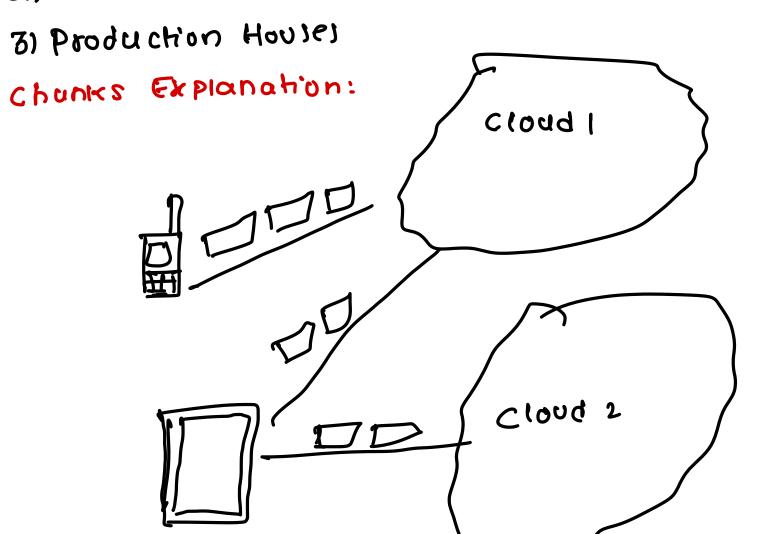
1) supporting Multiple Devices:

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Devices Format (i) Dimensions (j) Bandwidth
                                      (k)
(
```

=> We get itj*k combinations to support

Types of users:

- 1) Clients (Mobile, Laptop, IPad, Tablet etc...)
- 2) user (Men. Women, gay)

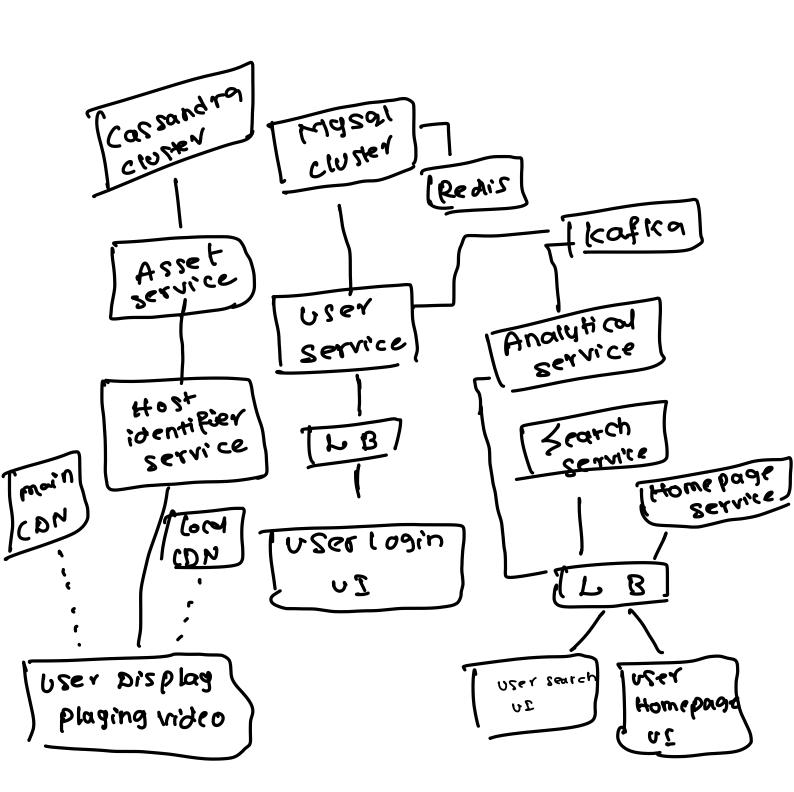


Clients Process chunks of Jata but not the full video. The processing depends on bandwidth, format the device support along with the dimensions

Bandwidth can be fluctuated at times. Therefor, Clients process the video based on the band which

Production Houses uploading a video (Systm Arch. Cassandra UI to cluster し Asset upload Prod-idi Movie-18 B On Boarding b video movie- id : { contrereu} Service movicies (chunke uses) Amozon **S**3 ASSet 262 11, cs KAFKA Content Processor Nothfication Service File chunker Conknt Filkr Spork Pfracy, Nudity, Streaming legac clusky Content Tagger give appropriate genre: home tags, thumbnails Wooy; garic tags for movies acterss. Herd Tronsco ding) Service 4093 Quality CAN converter wen the miy 720 1080 480

User Login, fearch, Homepage, Play Video.



User Search Service, Homepage Service, Analytical Service:

