



ASYNCHRONOUS TASKS ON ACTION

[detik.com's Video Service](#)

WE ARE HIRING!

/WHOIS

Working at detik.com since 2013

Mostly use Python as daily language

Magister Degree in IT - On Progress

IoT and Machine Learning enthusiast

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detikcom

- Tabloid DeTik
- The Biggest News Portal in Indonesia
- Breaking News Concept

The screenshot shows the homepage of detikcom. At the top, there is a search bar with the placeholder "Cari Berita atau Alamat" and a magnifying glass icon. To the right of the search bar is a user profile for "Wahyu Haryanto". Below the header, the main navigation menu includes "detikNews", "detikFinance", "detikHot", "detiki-Net", "detikSport", "detikOto", "detikTravel", "detikFood", "detikHealth", "Wolipop", and "Indeks". A banner for Dove beauty products is displayed, followed by a link to "SHOP NOW". Another banner for Lazada Online Revolution is shown with the text "Manjakan diri di Lazada Online Revolution dengan Dove Beauty Bar dan Body Wash". The main content area features a large red "BERITA UTAMA" box with a thumbnail of a crowd at Monas and the text "Massa Reuni 212 Kumpul di Monas, Dengarkan Lantunan Ayat Alquran". To the right of this are two smaller thumbnails: one of a Mars-like landscape with the caption "Foto: Tempat di Bumi yang Mirip Planet mars" and another of a mountain peak with the caption "Himalaya dan Everest, Atap Dunia dan Tempat Paling Berbahaya di Bumi". Below these is a news article titled "Massa Reuni 212 Nyanyikan Indonesia Raya" from Saturday, December 2, 2017, at 06:52 WIB. The article includes a large image of a crowd at a rally, a quote from Gubernur DKI Jakarta Anies Baswedan, and a section titled "Berita Terkait" with links to related stories. On the right side of the page, there are several advertisements, including one for UnionPay featuring a credit card and a "Cek di Sini" button, and another for PLN Video Competition with a yellow background and a clapperboard icon.

DETIK.COM AT THE BEGINNING (1998)

- Static web page
- Only a few server machine
- No CDN
- Full of ads



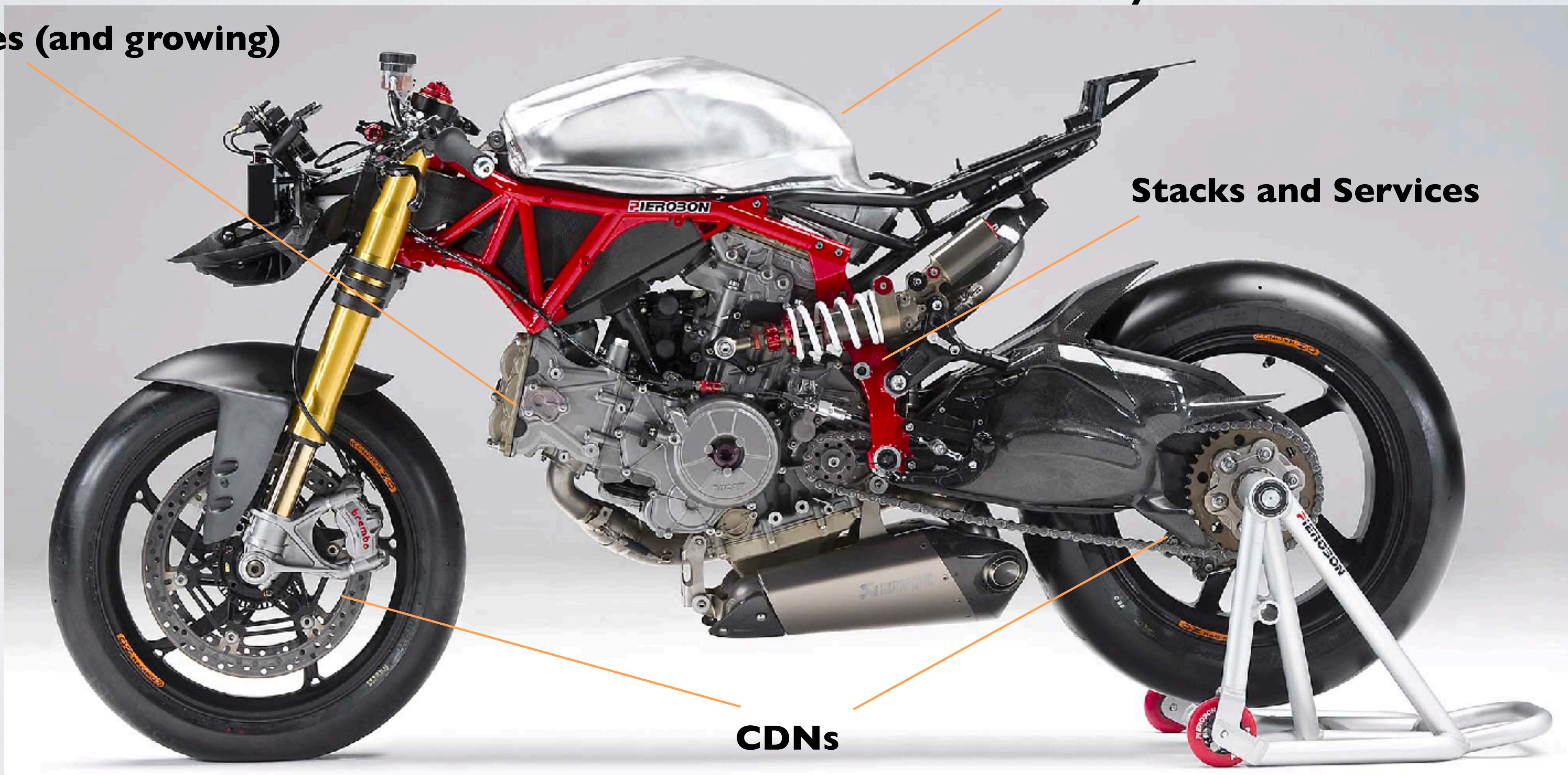
NOW!

500's Machines (and growing)

50M daily PV

Stacks and Services

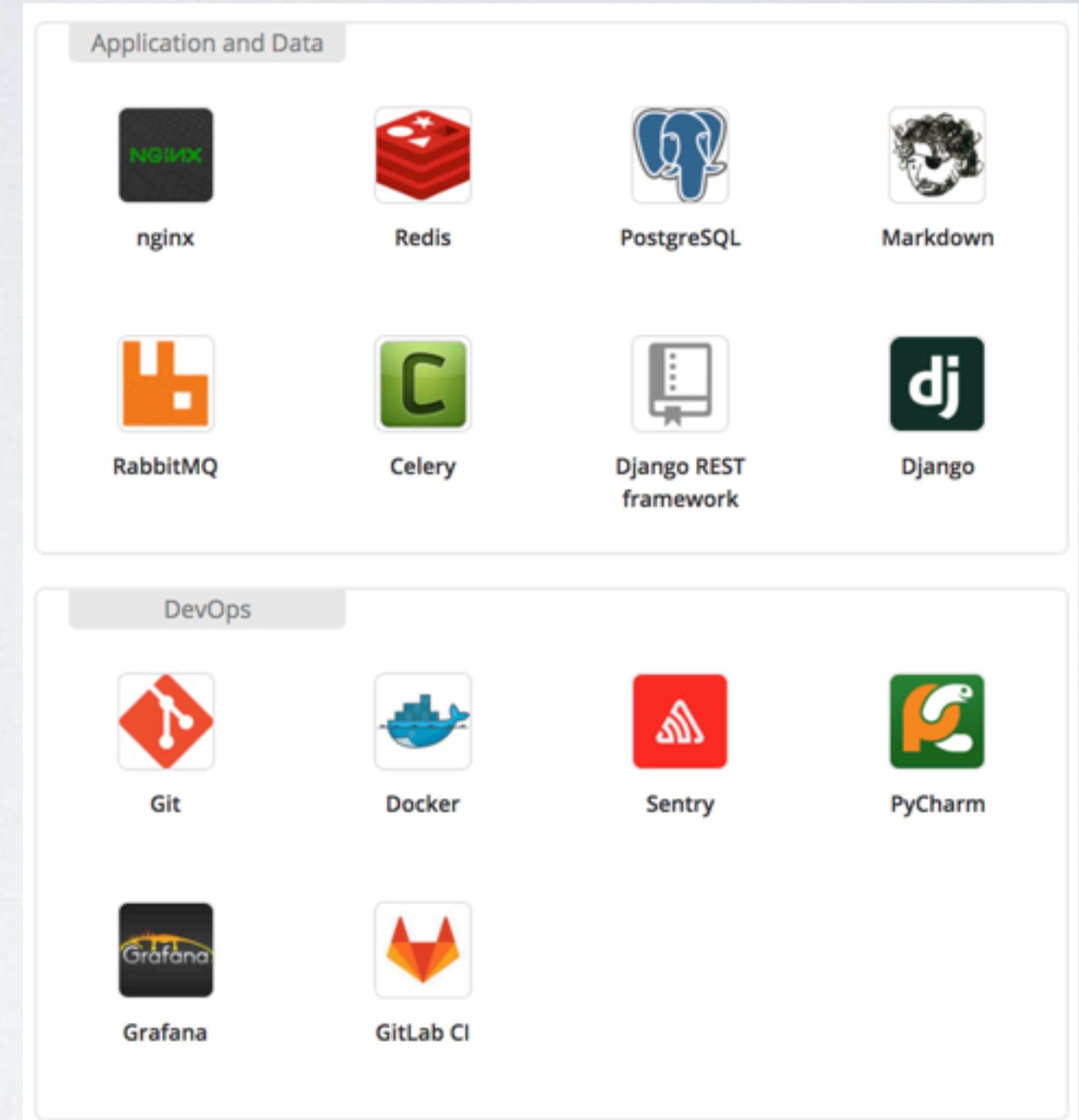
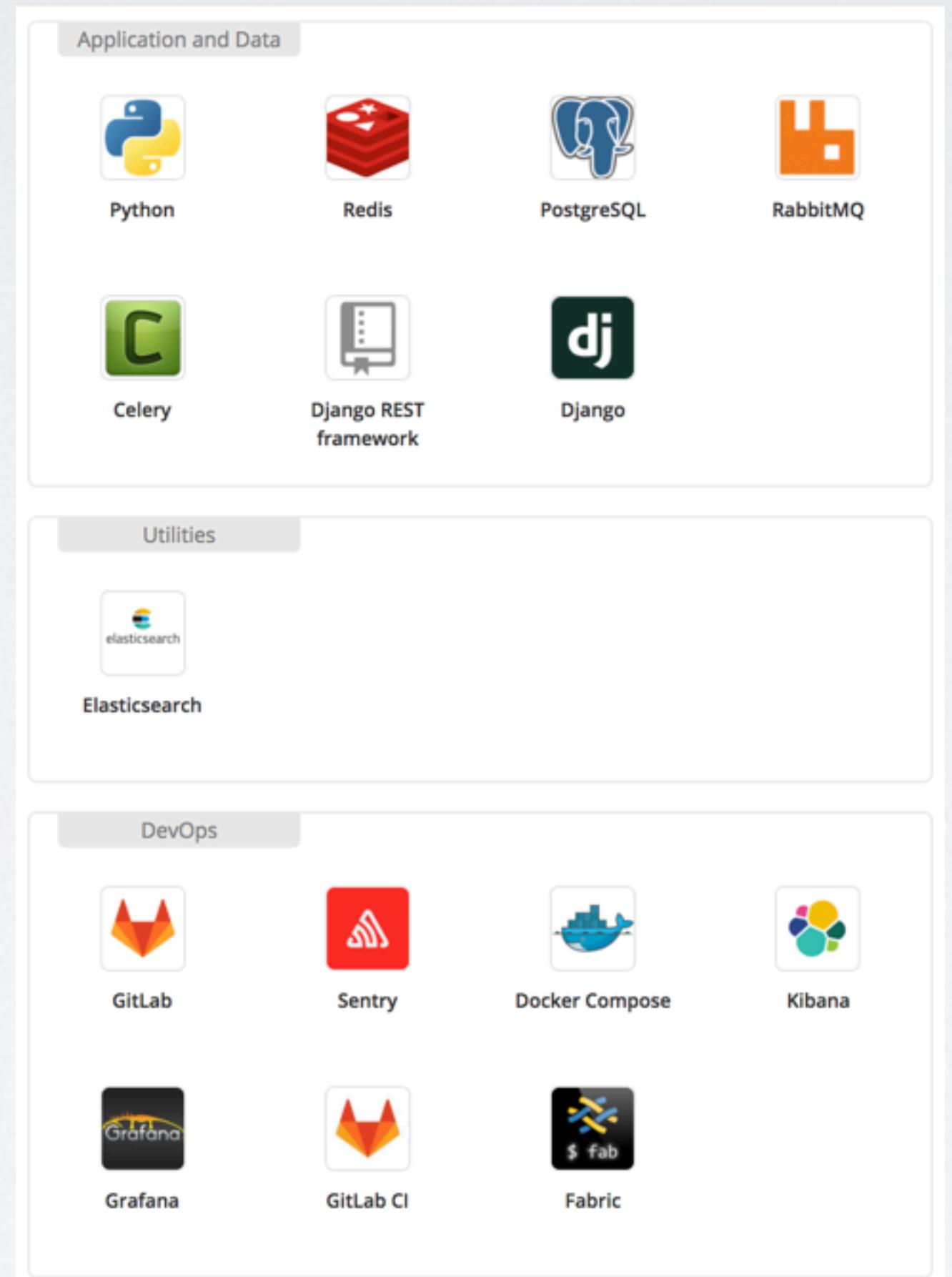
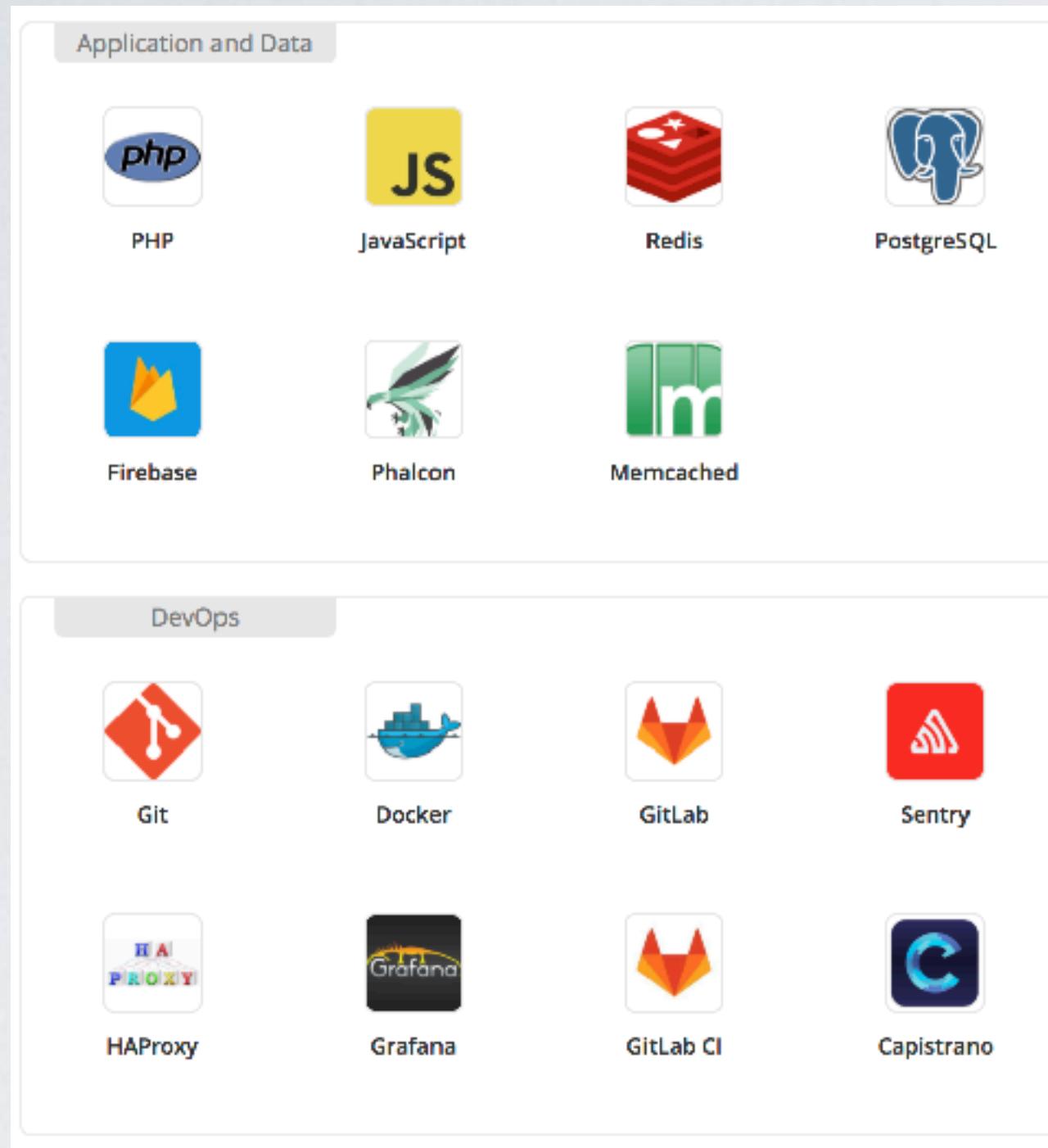
CDNs



UNDER THE HOOD

- APIs
- Ads Platform
- Imagery Services
- Video Delivery Platform
- Big Data Provision
- Internal and Non-redactional Applications

TECH STACKS



<https://stackshare.io/detik-com>

[Sign In](#) | [Sign Up](#)

Selasa, 10 Januari 2012

Find us on: [f](#) [t](#)

myTRANS



Mau mencari rekomendasi
menu dan tempat makan?

[Home](#)

[TV Shows](#)

[Movies](#)

[Music](#)

[Special Show](#)

[TV Schedule](#)

[Live TV](#)

Search Now

[Advance Search](#)



Comedy

The Hits

Mau lihat aksi penyanyi yang sedang nge Hits,
obrolan santai bersama pocong yang memiliki
jutaan follower di twitter atau aksi kocak John
Pantau di Behind the Stage? Semua ada di The
Hits

[Watch Now >](#)

[Most Viewed](#)

[Favorite](#)

[Recently Added](#)



Neo Gara Gara Magic
Trik Mirroring

Featured Videos



CHALLENGES

- Video Inventory as contents
- Industry Standard Video Format and Delivery
- Realtime async video encoding
- Youtube-like video encoder

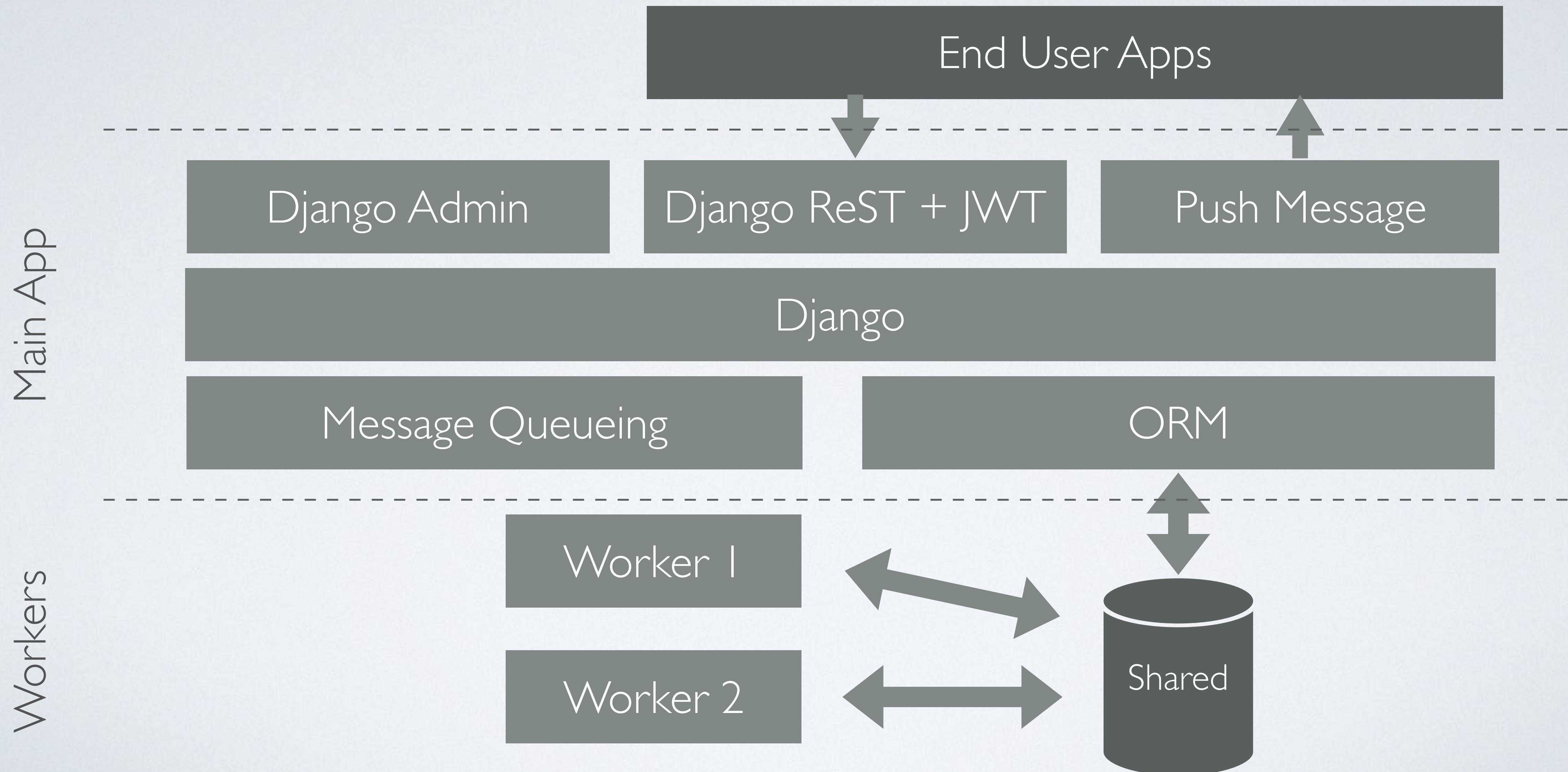
1ST RELEASE

- Project name : vodiny
- Lay on FFmpeg as its low level encoder
- Celery + Tornado
- Encode MyTrans.com video inventory

VIDEO SERVICE

- Extend the Vodiny
- Provide service for CMS
- Break a video into small chunks
- Full Async Processes
- Django Admin, PyJWT, Django ReST Framework, Celery, NGINX+HTTP Push, Django JFU

ARCHITECTURE



Add New Video

Video Title:

Hadapi Asian Para Games 2018, Indonesia Bentuk Timnas Boccia

Video Sub-Title:**Video File :**

Info: Ukuran maksimal file upload adalah 1GB

 Video:

/data/storage/detiktv/videoservice/2017/12/08//67655a8bfc7742a3b4d9c58bf286ddf1_h264-240p.mp4

Publish Date:08 2017 21 39 03**Program**20DETIK **Hold Position detikTV:****Hold Position 20DETIK:****Hold Position detikFlash:****Status on Jahex:**

Not Published

Kanal on Jahex:

Browse kanal

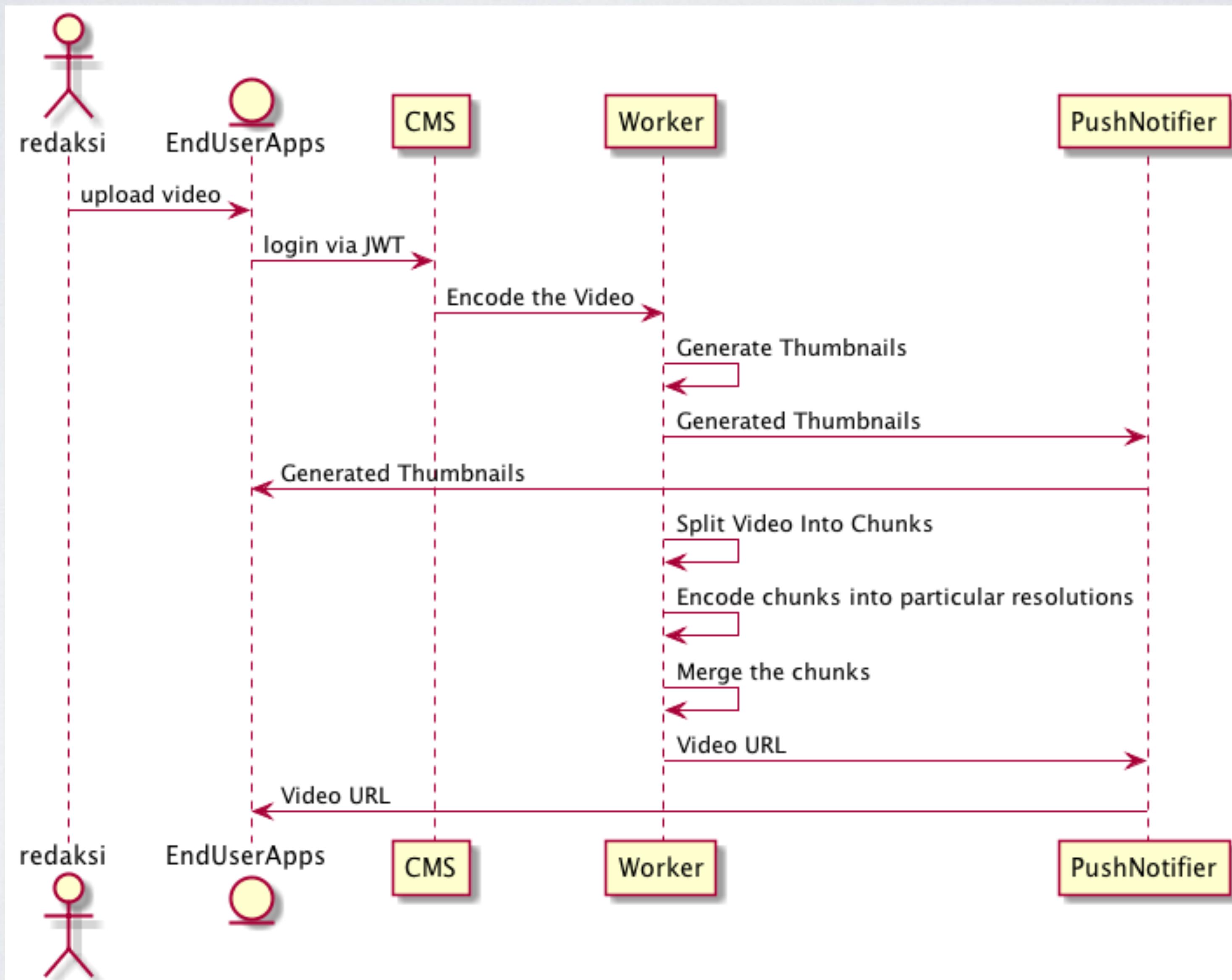
Fill this field if the Jahex status is Headline or Non Headline

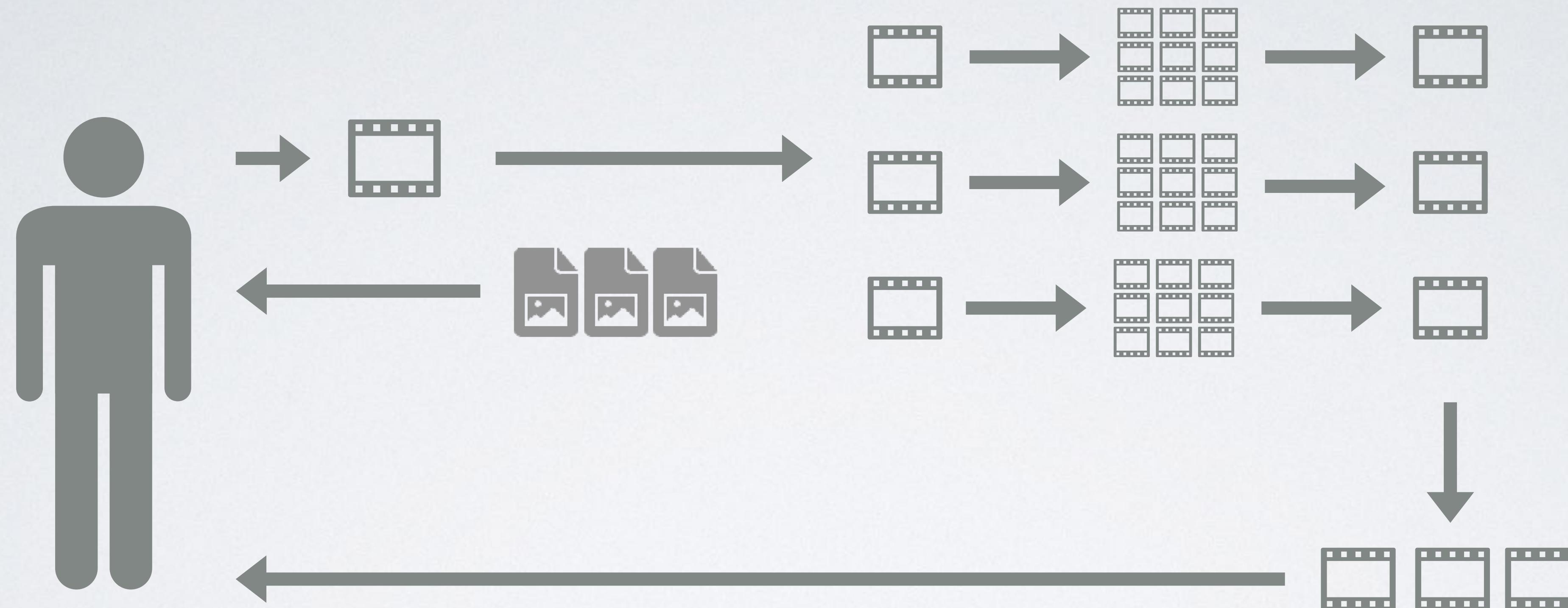
WORKFLOW

```
@startuml
actor redaksi
entity EndUserApps
redaksi -> EndUserApps : upload video
EndUserApps -> CMS : login via JWT
CMS -> Worker : Encode the Video
Worker -> Worker : Generate Thumbnails
Worker -> PushNotifier : Generated Thumbnails
PushNotifier -> EndUserApps : Generated Thumbnails

Worker -> Worker : Split Video Into Chunks
Worker -> Worker : Encode chunks into particular resolutions
Worker -> Worker : Merge the chunks
Worker -> PushNotifier : Video URL
PushNotifier -> EndUserApps : Video URL
@enduml
```

WORKFLOW





WHATS NEXT?

- Refactoring → Microservices
- GPU as its core
- Publish as open source project
- Porting FFmpeg to python