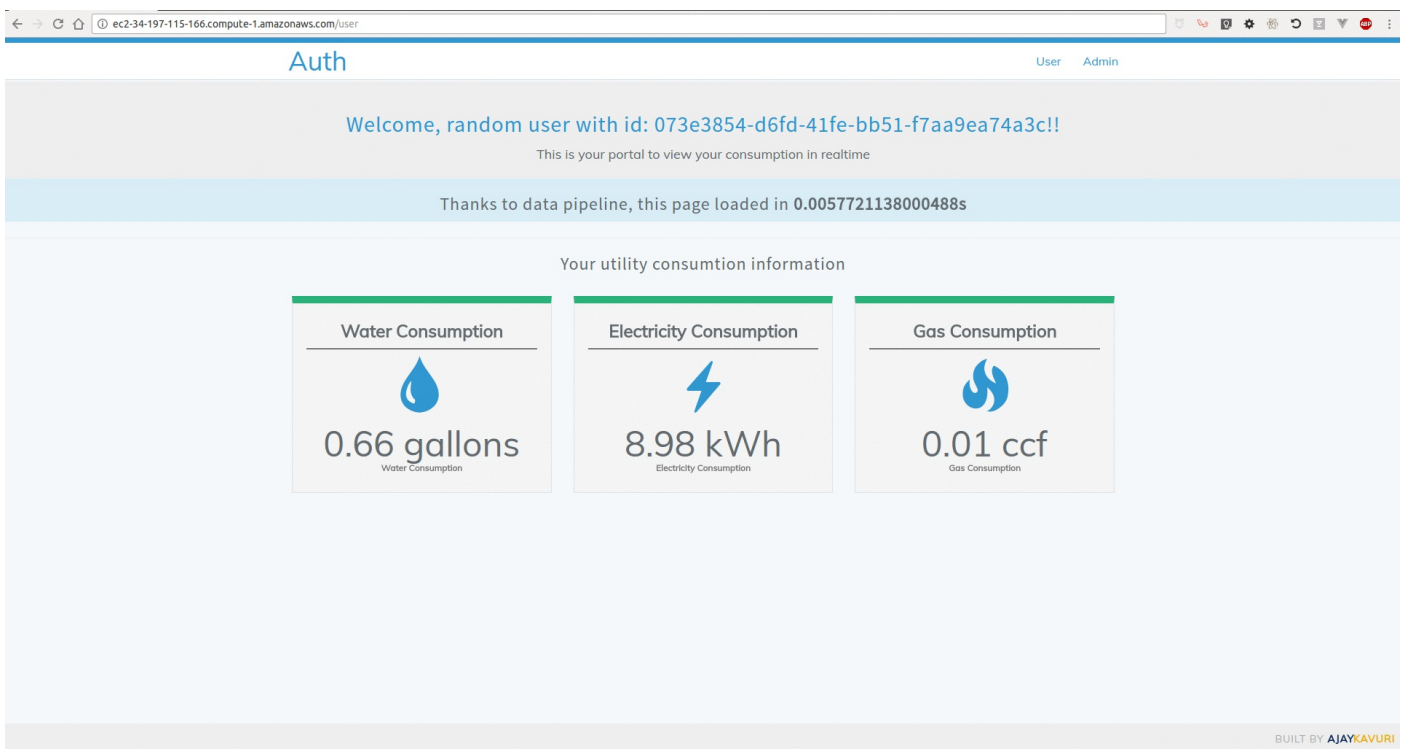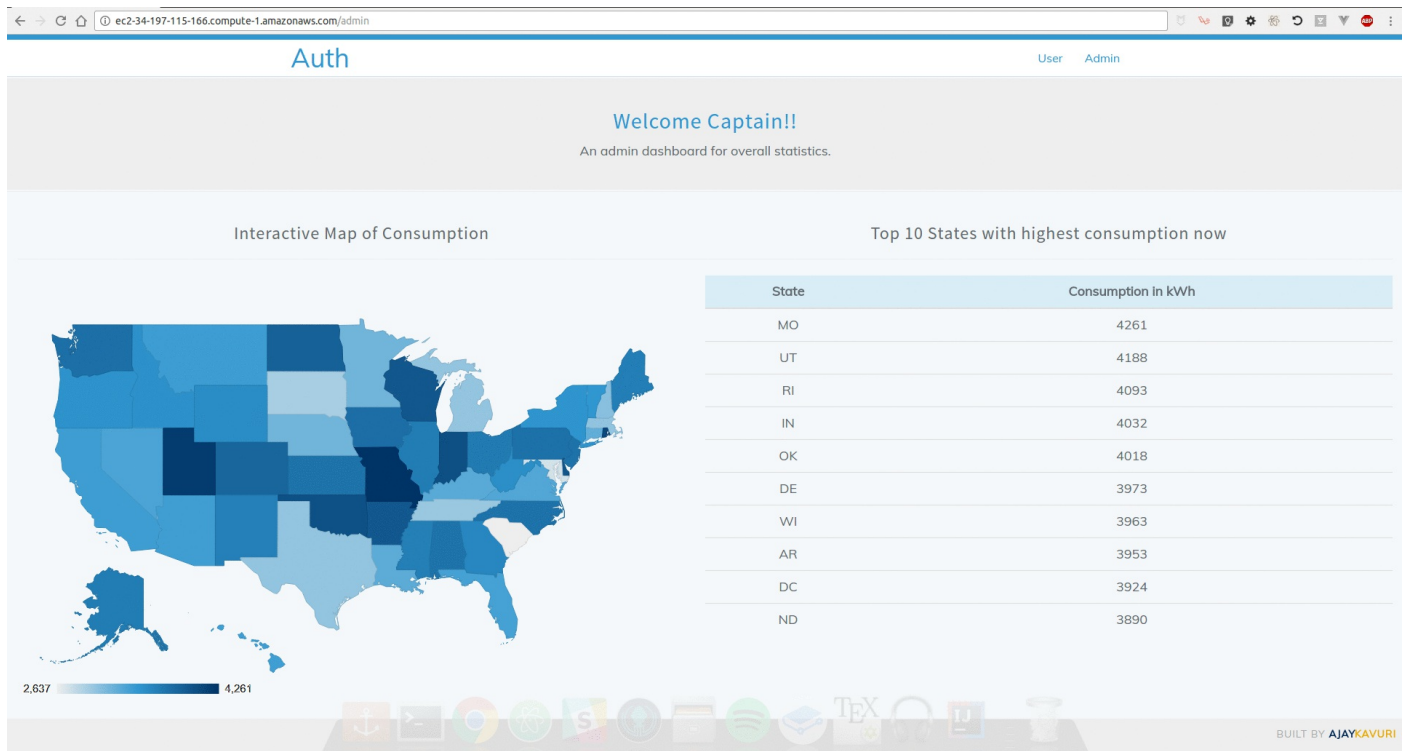# AUTH

ANALYTICS OF UTILITY THINGS

AUTH: Analytics of Utility Things is a platform for ingesting, processing and extracting insights from next billion connected Internet of Things (IoT).

Status:	Presentation:	Demo:	Contact:
build passing	slides	auth.pseudoaj.com	linkedin

Wouldn't it be nice if you can see your home utilization like this?

Built by AJAYKAVURI

Or wouldn't it be cool to monitor your country utilization like this?

Auth

Welcome Captain!!

An admin dashboard for overall statistics.

Interactive Map of Consumption

Top 10 States with highest consumption now

State	Consumption in kWh
MO	4261
UT	4188
RI	4093
IN	4032
OK	4018
DE	3973
WI	3963
AR	3953
DC	3924
ND	3890

2,637   ▬▬▬▬▬   4,261

BUILT BY AJAYKAVURI

About

With the advent of Internet of Things (IoT), traditional systems are being replaced with smart systems that can speak with cloud in real-time but there is a engineering problem: How can I **ingest** this information with high **velocity** from **variety** of sensors and extract **accurate** insights at **scale** with **fault tolerance**? This project attempts to solve this problem.

Data Pipeline
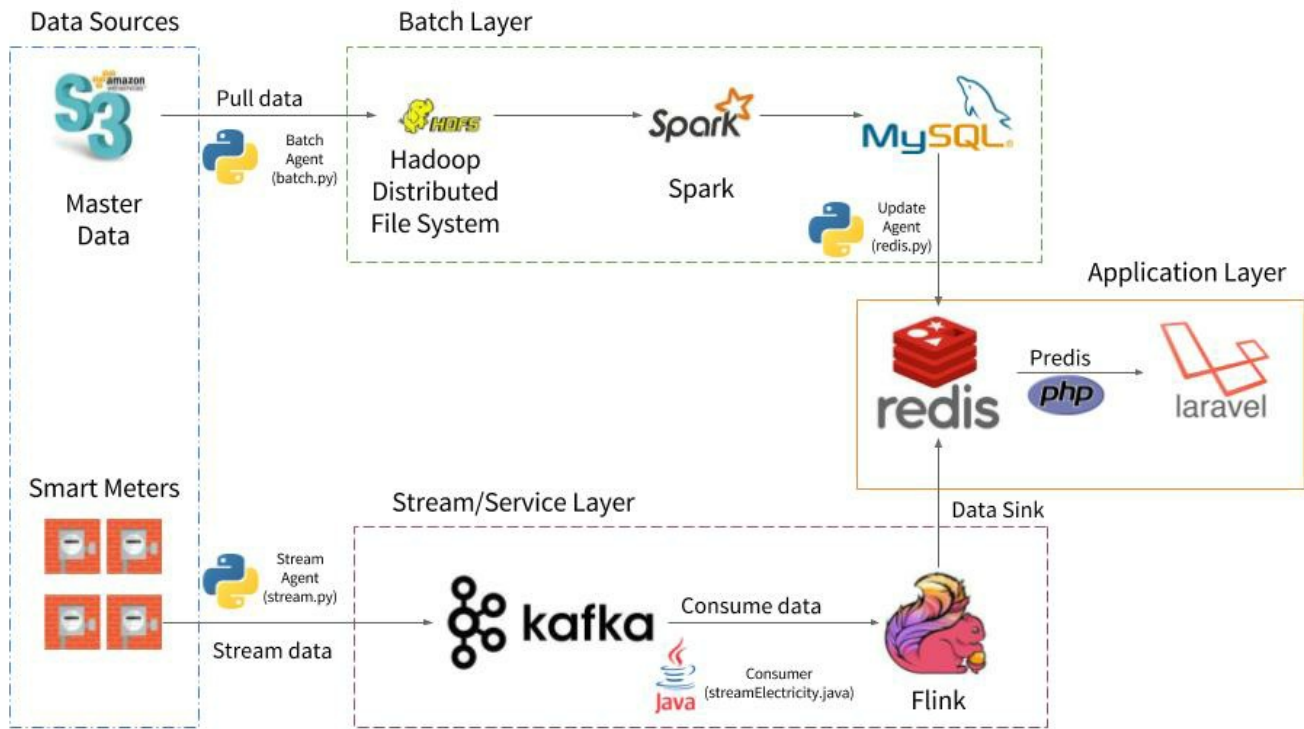
Technical Stack

#	Technology	Language	Purpose
1	`Apache Kafka`	Python	Ingestion
2	`Apache Flink`	Java	Stream Processing
3	`Redis`	Java/PHP	Key/Value Cache
4	`Amazon S3`	N/A	Distributed Storage
5	`Apache Spark`	Python	Batch Processing
6	`MySQL`	SQL	Application Database
7	`Laravel`	PHP	Web Framework
8	`Amazon AWS`	BASH	Devops

1. Simulating Data

The idea is to create as realistic dataset as possible; hence the dataset is inspired from real world frameworks and smart meters.

2. Data Ingestion

3. Batch Processing

4. Stream Processing

5. Web Application