

Group 4: Real Time Social Media Data Integration and Analysis Application

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Motivation and Goals

Study real time processing frameworks (such as Spark and Storm)

Build a real time system:

- Based on Twitter Streaming API and other sources

- Apply real time analysis (sentiment analysis)

- Has user friendly web interface which updates in real time

Related Work

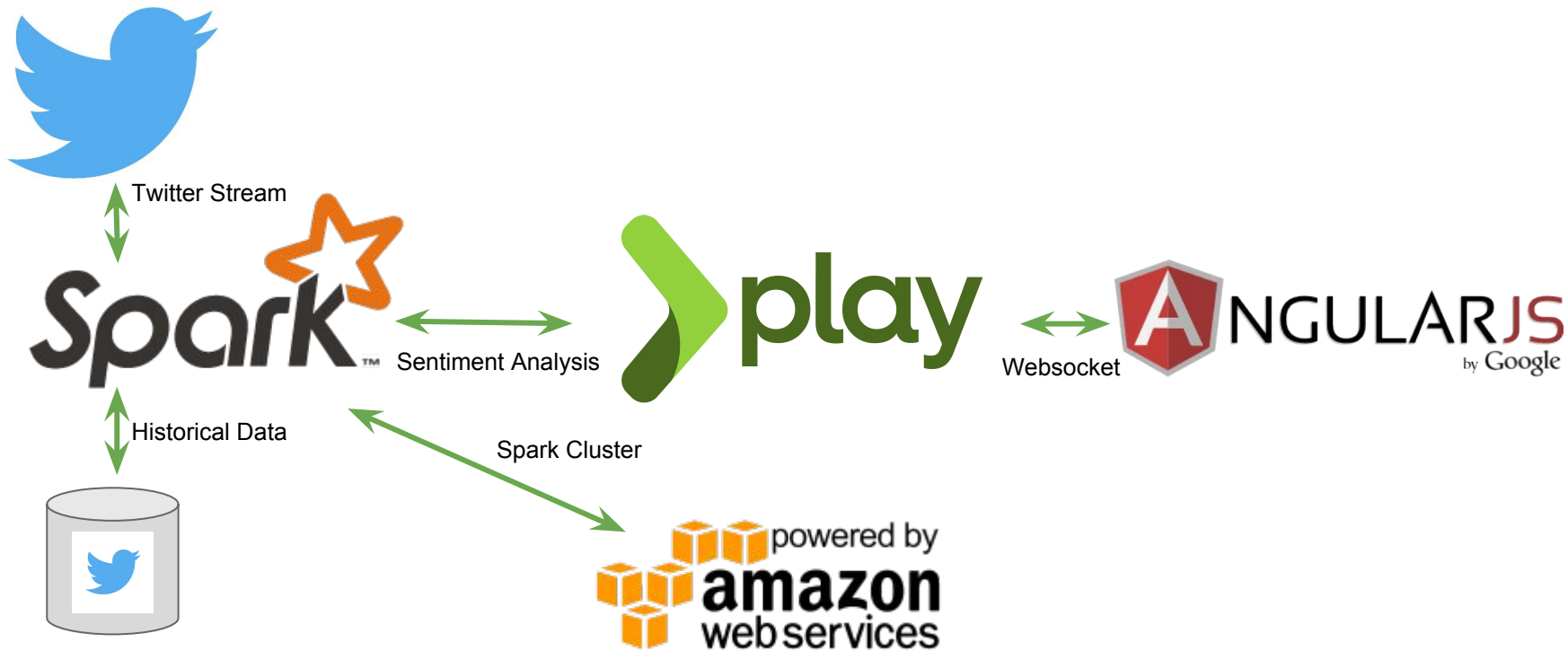
Spark: a framework that supports large-scale data-intensive applications while retaining the scalability and fault tolerance of MapReduce.

Storm: A real-time framework, record-by-record processing

Play Framework: Non-blocking Web Framework Using Akka

AngularJS: 2-way data binding, supports real-time updates

System Design



Evaluation, UI

Sentiment analysis batch processing time:

Location	# twitter	Get location data time	Get sentiment data time
Irvine	771	18.917491 s	7.708516 s
Los Angeles	14733	20.777380 s	143.480886 s
NYC	21012	21.155872 s	200.305145 s

