Flare: Hyperlocal News

A capstone project by
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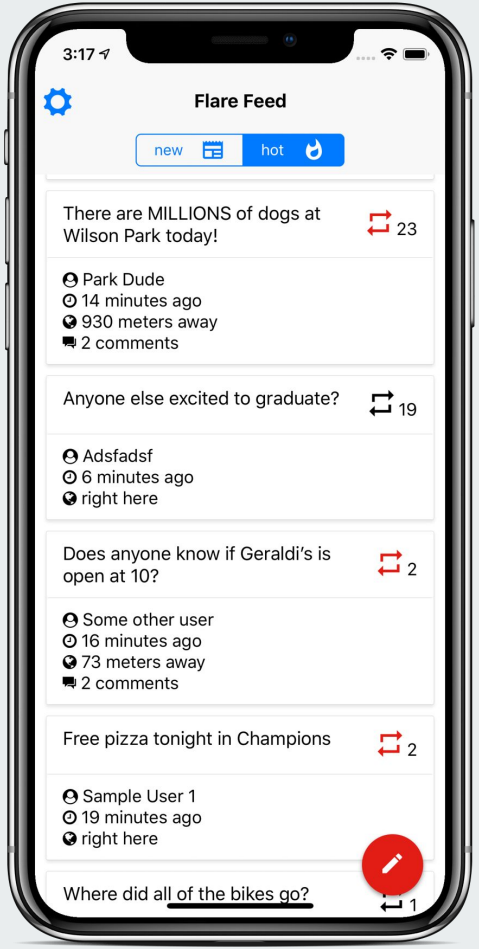


The Problem

Problem

What we wanted to fix based on the current market:

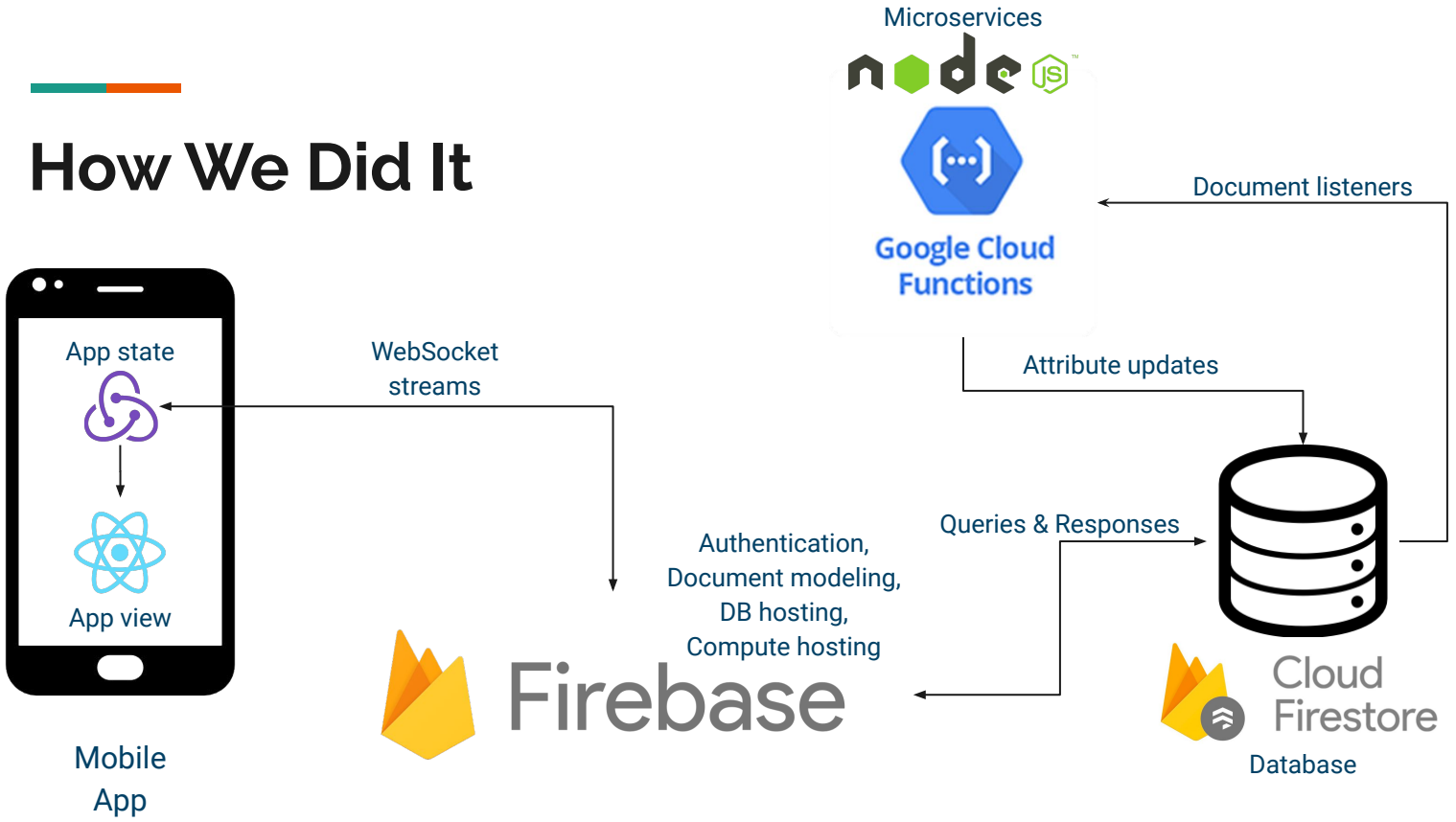
- Decrease censorship
- Information and communication based on location
- Increase community involvement

Our Solution: Flare

CLAIRE'S PHONE
RIVER'S PHONE

How’d We Do it?

How We Did It


Microservices
Google Cloud Functions
Document listeners
App state
App view
WebSocket streams
Attribute updates
Queries & Responses
Authentication, Document modeling, DB hosting, Compute hosting
Firebase
Cloud Firestore
Database
Mobile App

How We Did It: Geohashing

(36.064491, -94.170103) -> 9ymj1j76vs3u

Can’t query for radius around coordinates, but you CAN compute hashes!

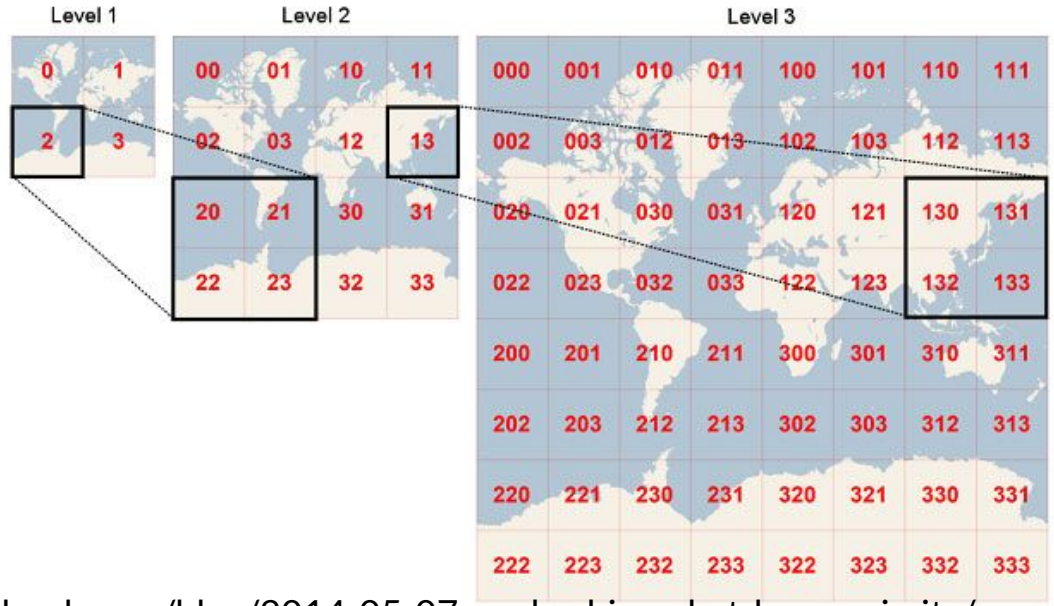
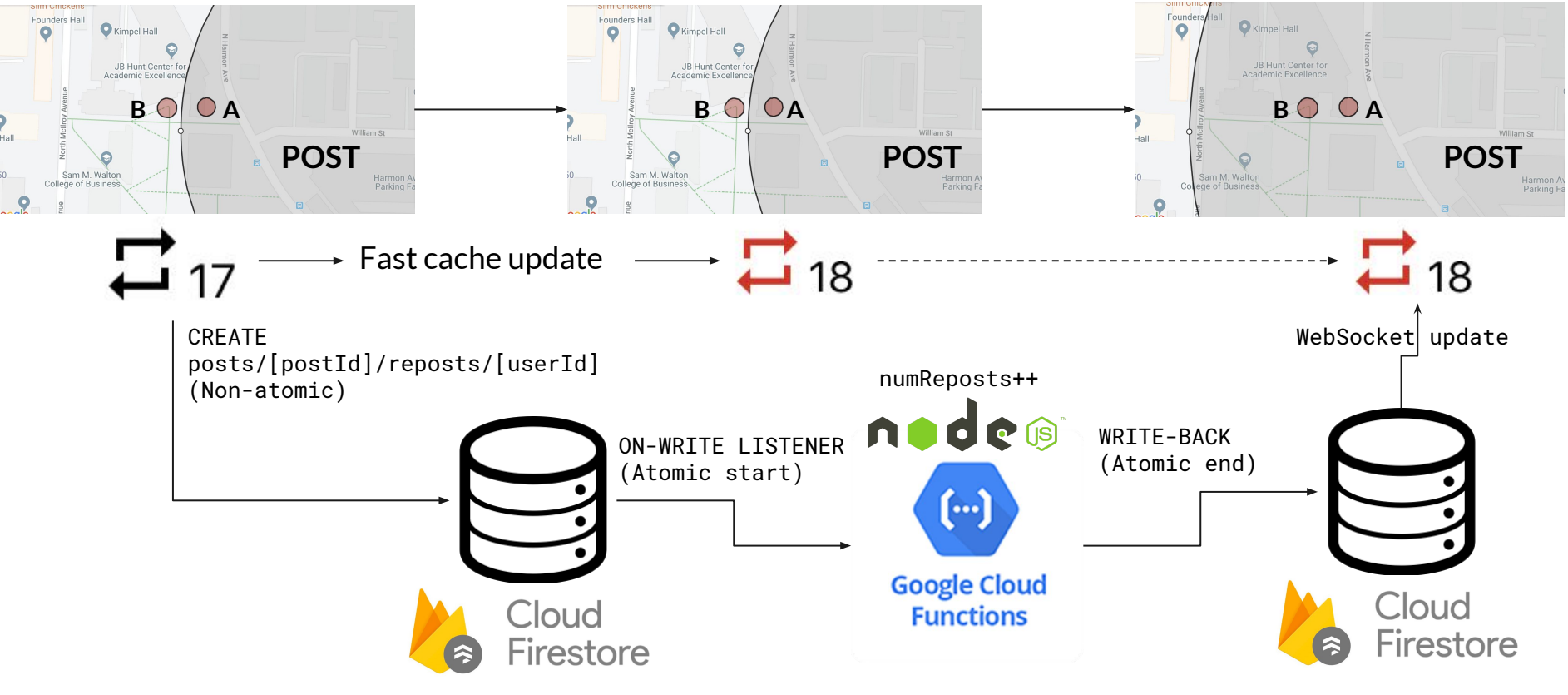


Image from https://www.pubnub.com/blog/2014-05-07-geohashing-chat-by-proximity/

How We Did It: Real-time Geofencing



What's Next?

What's Next

- Sanitizing posts on creation (word/content filters)
- Creation of a profile page that enables users to see their live posts/posts that they've reposted
- Creation of a page that creates a map of the user's current live posts
- Timer restricting the number of posts an individual user could make in a given period of time
- Additional post filtering options (news/age-restricted posts(adult language)/business/lifestyle(leisure)
- MAKE SOME MONEY