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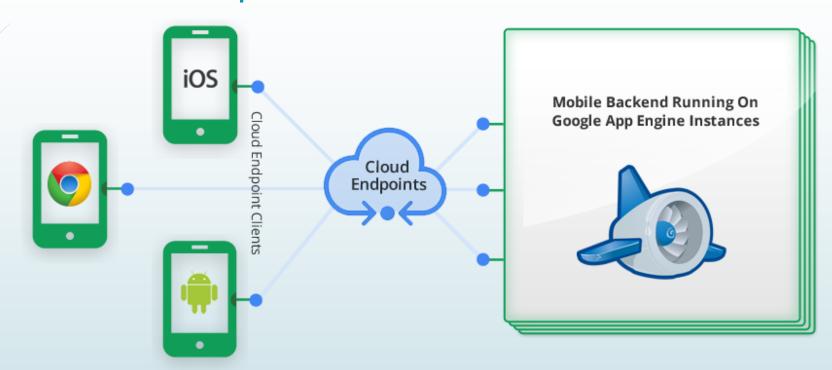
Google App Engine

Dominate the cloud like Lando Calrissian

Google App Engine

- Cloud Endpoints
- Datastore
- Task Queue
- Memcache

Cloud Endpoints Architecture

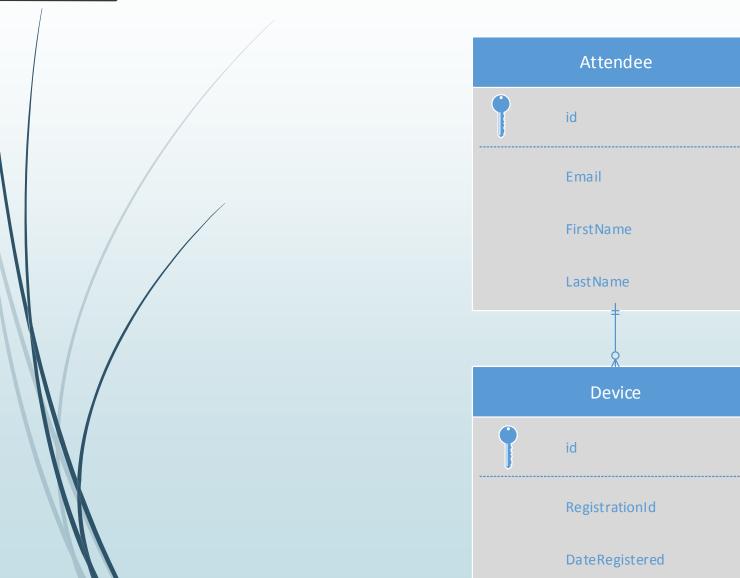


Google Cloud Endpoints consists of tools, libraries and capabilities that allow you to generate APIs and client libraries from an App Engine application, referred to as an API backend, to simplify client access to data from other applications. Endpoints makes it easier to create a web backend for web clients and mobile clients such as Android or Apple's iOS.

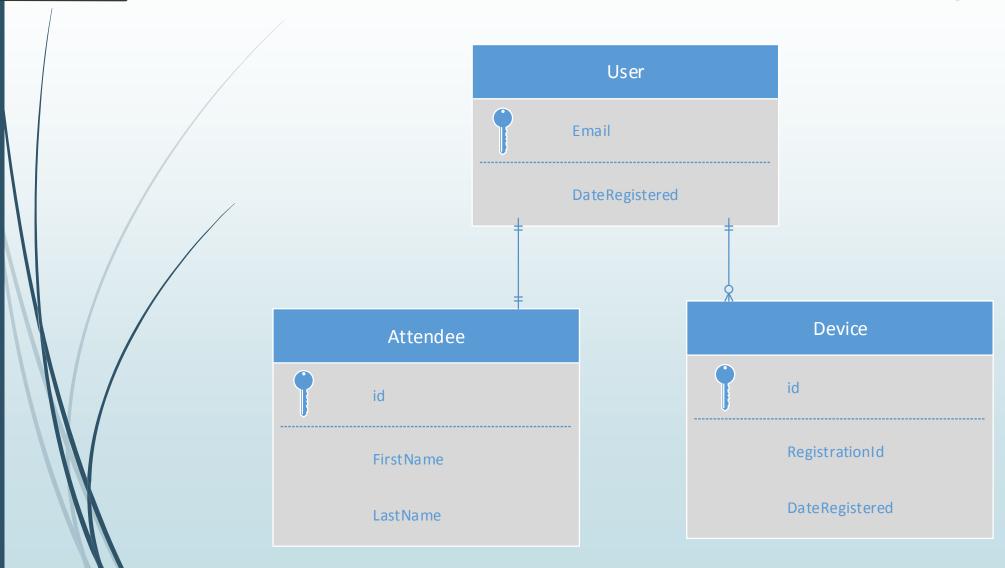
Datastore

- App Engine Datastore is a schemaless object datastore providing robust, scalable storage for your web application, with the following features:
 - No planned downtime
 - Atomic transactions
 - High availability of reads and writes
 - Strong consistency for reads and ancestor queries
 - Eventual consistency for all other queries

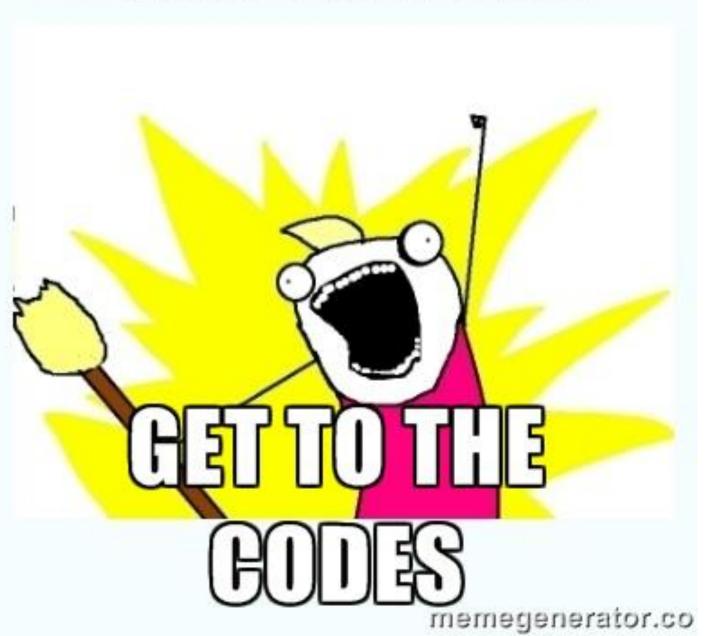
Datastore – Entity Group Design



Datastore - Entity Group Design



BUM BUM BUM



Memcache

```
MemcacheService cache = MemcacheServiceFactory.getMemcacheService();
cache.setErrorHandler(ErrorHandlers.getConsistentLogAndContinue(Level.INFO));
Integer status = (Integer)cache.get("StatusKey");
if(status == null){
  //.. logic to get status from storage and assign to status variable
  // status = ...
   //add to cache with a 2 minute expiration
   cache.put("StatusKey", status, Expiration.byDeltaMillis(120000));
```



August 11th – 13th 2014 Same Place, Same Time