Beacon Management, need to know where each beacon is and know how to keep time of devices connected to beacon.

Beacons should be able to pin point a specific location sing geo-fencing (beacons set in different locations).

Time each session when a device is connected to the beacon.

One active day per day, but all events stored on the events DB.

All events are stored, even when the active day has been achieved

Availability – system is not 24/7, system is not available at night (read only) – solution is during down time store all data on the phone and upload when system is available still.

16 active days a month -benefits.

First Priority: Giving active day – reward policy for later is to reward based on active days

Need-to-learns: Amazon cloud services, java -java EE, spring-Boot, wild-Fly. How these use REST

**Functional Requirements**

* Beacons have id and id need to be given a location – beacon management
* Timing of devices within the beacon location ( e.g. gyming ), how many devices have connected to the beacons in a day for uses like shop data (No. of customers).
* When user enters, a location containing beacons they should be notified that they are in a particular area and additional info for that event if necessary.
* Web interface deals with partner management, and beacon management – choose non-relational DB eg graph DB – do more research
* Gamification of the system.
* Geo-fencing:
* Beacons communicate with the phone and phone to AMZN, beacon management
* GPS secondary priority.
* Google analytics, firebase (good idea)
* User communication – target user notifications eg (target platinum users).
* Base is 120000 client
* Amazon scalability, services should be able to handle request/receive data
* Usability must be good, no user manual should be needed but make one.
* Java 8 + javaEE, Docker
* Security openID, auth, job token