TinyInsta

Homework m1 Info - Web&Cloud - P. Molli

I want to build a web application that includes few features of instagram:
- Follow someone
- Post a picture
- List new posts
- Like a post.

One people may have tons of followers.

Objectives:
- Implement this web application as Google App Engine application:
  - The UI is written in mithril (or similar)
  - The UI calls REST services written in Java with Google Cloud endpoint
  - REST services request and store data in the Google datastore.
- There is two problems to solve:
  - The fan-out problem: how to post to millions of people
  - The contention problem of the counter for a post.
- Make a small benchmark:
  - How much time it takes to post of message if followed by 10, 100 and 500 followers? (average on 30 measures)
  - How much time it takes to retrieve the last 10,100 and 500 last messages ? (average of 30 measures)
  - How much "likes" can you do per second ?? (average on 30 measures)
- Recommandation:
  - First, make it works !
  - Second, make it scalable (in this order) !

Rendu

Pour le 7 décembre 2019:

- Par groupe de 3
- fournissez l'URL Google App Engine permettant d'utiliser cette application,
- fournissez l'URL Github (ou équivalent) permettant de télécharger le code source de votre application, AVEC VOS NOMS !!
- Fournissez l'URL permettant d'explorer l'interface REST.
- Le "readme" sur github.
  - Screenshot des "Kinds" Google datastore utilisés dans votre appli
- Le rendu se fera sur Madoc …