QuiltView: a Crowd-Sourced Video Response System
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INTRODUCTION

- QuiltView is a near-real-time crowd-sourced system in which users reply queries with videos through Glass with only one touch.

- Key idea: Simple queries, deep answers
  - “If a picture is worth a thousand words, then a video is worth a million”
  - Replying raw data may be better
  - Different personal taste
  - Requester may have valuable context not available to crowd

- Micro Interactions
  - Two second rule - “Anything that takes you more than two seconds or longer to accomplish, needs a good reason to be done. Anything that takes significantly less you will do without a second thought.”
  - Only one-touch video reply through Glass is less than two seconds

SYSTEM ARCHITECTURE

1. Requester specifies interested area through Google Maps
2. User posts a new query to QuiltView service, accompanied by the interested area
3. If data of interest is not cached, QuiltView sends requests to selected users
4. Users upload video clips to Youtube, and video metadata goes to the global catalog
5. QuiltView returns video link to the requester

USE CASES

- Traffic Condition Check
- Missing Child
- Time Machine
- Real-time Queue View
- Free Food Finder
- Scavenger Hunt
- Emergency

CHALLENGES

- How to avoid overwhelming users with queries?
  - result caching (“similar” queries within a short time)
  - deliver queries only to subset of users (random sample)
  - preference settings (e.g. topics)
- Incentive policy
- User privacy