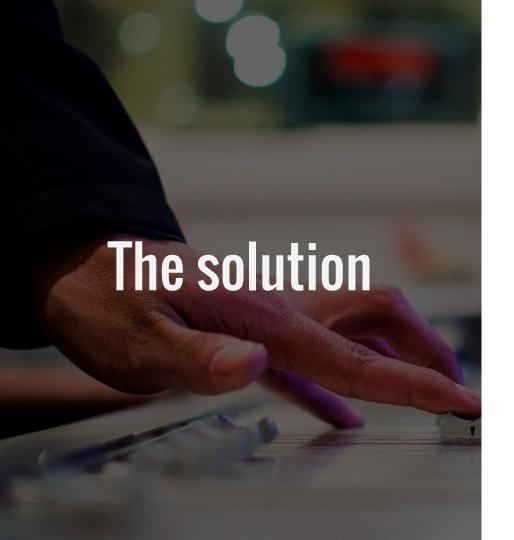
Tuneln

CS263 Final Project Demo Nimisha Srinivasa UCSB Winter 2016





- A Google App Engine (GAE)
 Application
- Backend:
 - JAX-RS
 - API's used:
 - Datastore
 - Memcache
 - Taskqueue
 - Blobstore
- Front-end:
 - HTML5 and Javascript frameworks
 - Hello.js
 - Bootstrap
 - Jquery plugins

DEMO

Model (DataStore)



User

userld firstName lastName displayName emailld



AudioClip

ld ownerld title AudioBlobId ImageBlobId date

BlobStore

- Upload audio clips (.mp3 support)
- Upload images for audioClips





Memcache

- In-memory **distributed** data cache
- Used to reduce the query load on server
- Data is **not** presistant
 - For caching the work of other users

Task Queues

- Perform work in the backend, where no user interaction is required.
- **Push Queue** to push pending tasks to the queue.
 - Accessible only within the app engine environment
- Usage:
 - Deleting the audio and image blobs in the background when an audio clip is deleted by user

Learnings & Experience

- Design of REST-ful API's
- Good understanding of REST-ful services using Jersey.
- Blobstore is a little hard to deal with (deprecated).
- Little documentation available online for Google App Engine Development using Java when compared to the python support.

Novelty

- A dedicated web service for music lovers.
- Finding with like-minded people.

Future Work

- Integrating with facebook
- Friendship between Users.
- Uploading to Google Drive
- Likes and Shares

Performance Evaluation

- Server-side Caching using memcache. The Response Time decreased from 1.7s to 150ms
- Doing work in the background using Task Queues reduces
 Response Time.

Thank You