SAP SVNT: Silicon Valley Next Talent



Hello!

Gregory Cheng

Lehigh University

Computer Science & Business (CSB) Program





Persona

- 3rd party service for small Youtube accounts
 - Given information regarding average views, subscribers, video parameters
 - Determine insights on video popularity
 - Video trending probability
 - Likes, dislikes, views





Authentication & Login

POST /register

Registers a user & immediately starts an active session.

POST /login

Creates a new session by adding a session token to a concurrent hash table.

// Maps a session token to a username.
private Map<UUID, String> map =
new ConcurrentHashMap<>(1000);

GET/get-prediction

Authenticates a user, retrieves YouTube channel information, and predicts hypothetical video metrics. Uses a stub method, meant to be replaced with a model.



System design





POST /register and POST /login

password hash

GET /get-prediction

- Predicted likes, dislikes, views
- Probability of trending if placed in a category

- Session token (UUID)
- Title (String)
- Tags (String[])
- Upload Date (DateTime)

User Information DB

User information: average views, likes, dislikes

Username

Java Spring Application



User & Video information

Predictions

----- Model



If we had more time...

Google OAuth

Allows a user to login via their Google credentials, already attached to a YouTube account

YouTube API

Allows the application to retrieve account information directly from YouTube.





THANKS!

Any questions?

You can find me at:







