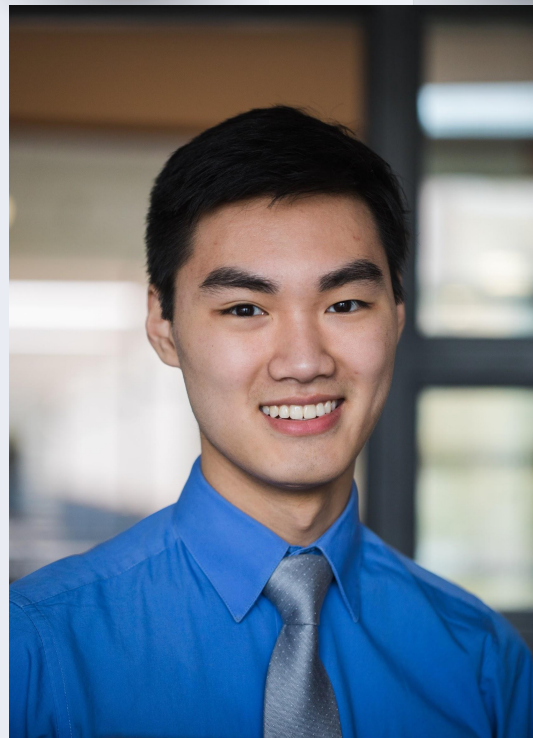# SAP SVNT: Silicon Valley Next Talent

Hello!

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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

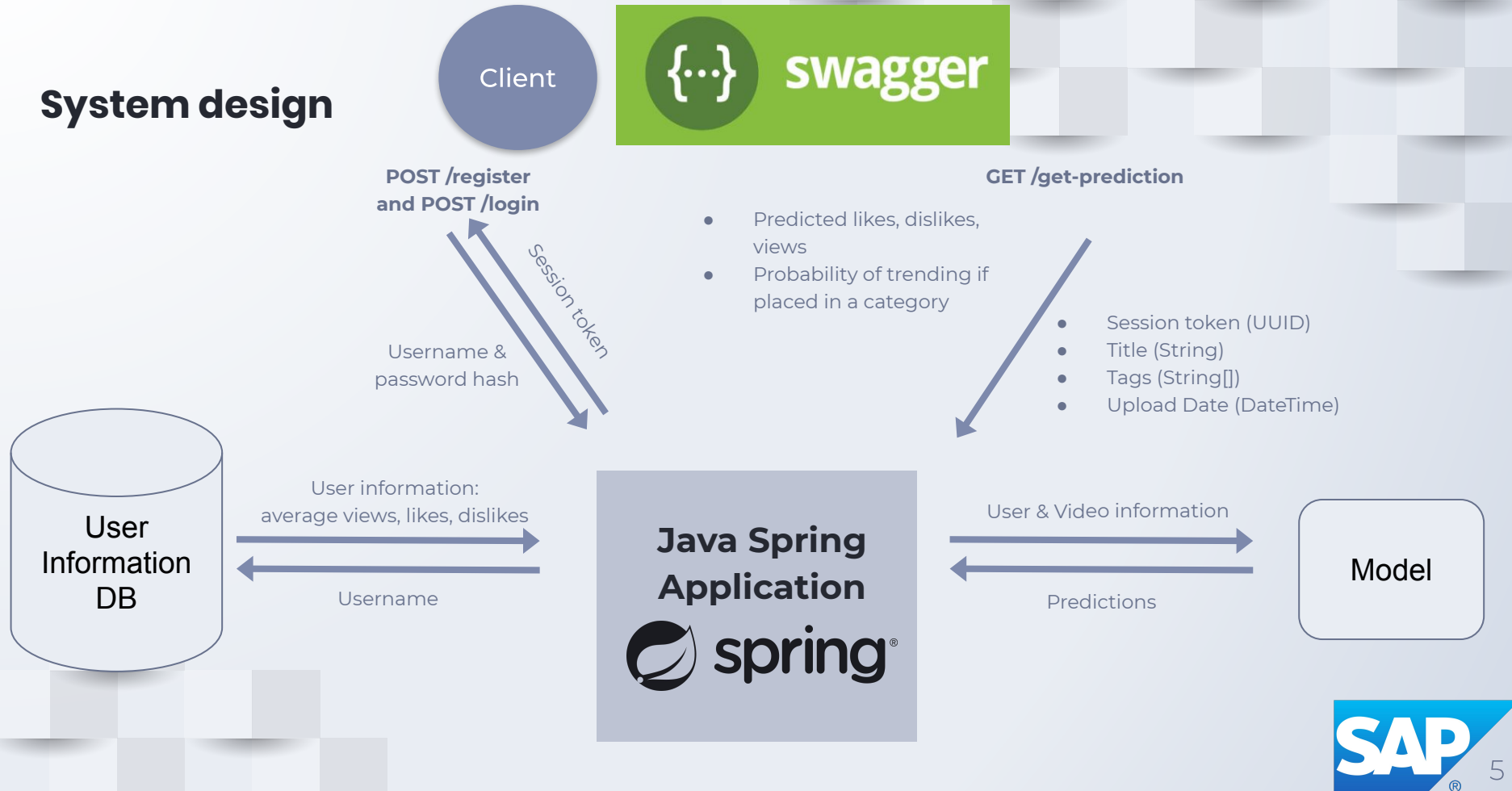Registers a user & immediately starts an active session.

POST /login

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

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.***

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

System design

Client

swagger

POST /register and POST /login

Session token

Username & 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

spring

User & Video information

Predictions

Model

SAP

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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?

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