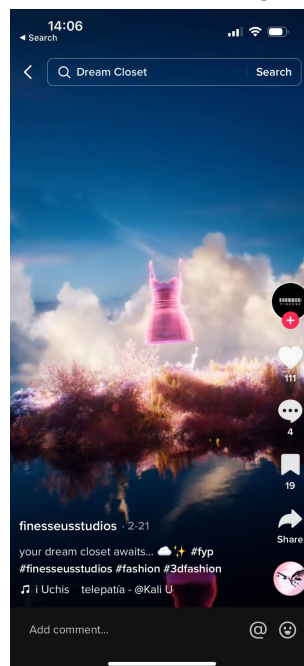*Finesse Software Engineering Challenge*

TikTok Scraper

Goal & Context

Over the last years, the birthplace of fashion shifted from catwalks and magazines to social media. Consequently, social data constitutes the heart of FINESSE.

The goal of this challenge is to build a TikTok scraper that can retrieve **fashion** posts. Fashion posts can be identified by analyzing the comments, account, hashtags, etc.

The scraper should produce a CSV file with the following columns, for example for this post:

The CSV file would look like this:

Post URL	Account	Views	Likes	Comments	Saved	Caption	Hashtags	Date posted	Date Collected
https://www.tiktok.com/@finesseusstudios/video/7202782996951321899?lang=en	finesseusstudios	2496	111	[Beautiful design! AI IS TRULY AMAZING! I love how you guys let us vote on what we want to reduce product waste 😍, …]	19	your dream closet awaits… ☁️✨	#fyp #finesseusstudios #fashion #3dfashion	02/21/2023	03/13/2023

While we'd like to see you show off the way you code, we are also interested in the way you think. To that end, please also outline & rationalize any additional systems that you would implement were this not a timed challenge. Please clearly state your reasoning behind why certain approaches would work best here, how you would modify them (or not) and how you would go about implementing them.

Deliverables
How much you code up vs write up is totally up to you to show the best of your skills. The time requirement should be that of a regular, albeit challenging, coding take-home. The deliverables should include:
- A git repository containing all the code
- A Docker container that runs the scraper
- A CSV file of a sample of 100 fashion posts using the template from above
- A written plan (in any format that works best for you) of how the scraper works and any possible extensions the scraper would have if you had no time constraints.

Notes
This exercise is intended mostly to give an idea of how you approach engineering a system from scratch and think about its scalability & success. We are more interested in seeing your process and structure as there is no one right answer. The documents should give us a great foundation for our follow-up call at which point you can walk us through your reasoning and deliverables step-by-step.
Most importantly, have fun and don't hesitate to ask any questions!

ADDITIONAL WRITTEN QUESTIONS

Please answer in short-paragraph format the following questions below:

If you could improve one thing about FINESSE right now - as you experience it - what would it be and why? The Goal & Context section above gives you a starting point on our audience.

Your plane crashes and you land on an island. What do you do? How do you plan your survival?

What matters to you most and why?