Assignment for Stir Tech Internship via Internshala

Hey there!

Congratulations! You were shortlisted from over 1100 candidates who applied for the internship.

About us

Stir is a marketplace which connects indie filmmakers, producers and studios to film influencers for promoting their movies.

About the founder

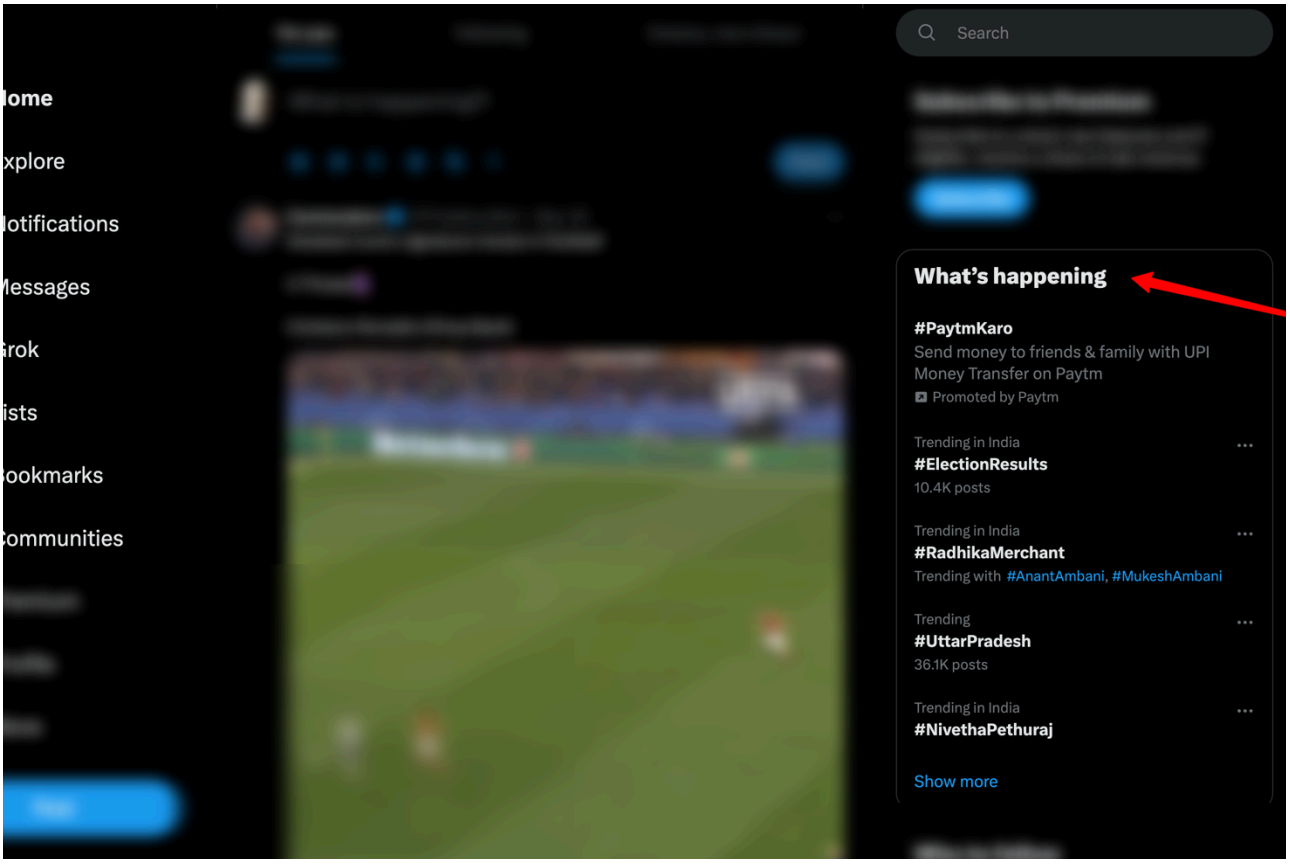
Our founder, Ankur Singla, is a tech entrepreneur who sold his Sequoia-backed company, Tapzo, to Amazon Inc in 2018. Tapzo was an all-in-one app where you could book a cab, order food, book a flight, or recharge your phone. Today, a lot of the Tapzo backend codebase lives on in Amazon systems powering multiple Amazon Pay categories.

Your task

Web scraping with Selenium and ProxyMesh, storing the data in MongoDB, showing a list on a webpage. This task will test your ability to work with web automation tools, proxies, and data extraction techniques.

What you have to do:

1. Write a Selenium script that can read the Twitter home page (on your local computer) and fetch the top 5 trending topics under “What’s Happening” section from the homepage.



2. To access Twitter, create/use your own Twitter account, since log in required to see this page.

3. Use ProxyMesh such that each new request to scrape the trending topics is sent from a new IP address.

4. Create a unique ID for each time the Selenium script is run and store the results in a MongoDB database (fields required – unique ID, name of trend1, 2, 3, 4, 5, date and time of end of Selenium script, IP address used). We won’t need anything else.

5. Create a simple HTML page which has a button, which when clicked, will run the Selenium script, and then show results in the following manner:

Expected result:

HTML page:

Click here to run the script.

When the link is click, it shows the following text:

These are the most happening topics as on {Date and Time of end of Selenium Script}

- Name of trend1
- Name of trend2
- Name of trend3
- Name of trend4
- Name of trend5

The IP address used for this query was XXX.XXX.XXX.XXX.

Here's a JSON extract of this record from the MongoDB:


```
[
   {
      "_id": { "XXX": "XXXXXXX" },
      "nameoftrend1": "XXXX",
      "nameoftrend2": "XXXX",
….

]
```


Click here to run the query again.