Agenda

D what is Web-scraping

9 Understanding Website structure

9 request module

9 beautiful Soup for Scraping

9 Fixing the format

what in Web-Scraping

5 To extract data from internet

Ex: DE-commerce (classification)

o stack-overflow (coming LLM)

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Issues when scraping:

o Legal Laws

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Service

Understanding Website stoyeture

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## **Problem Statement:**

- We'll be scraping this website <a href="http://books.toscrape.com/index.html">http://books.toscrape.com/index.html</a> for collecting book data like, name of book, genre, price, reviews, etc.
- · Before scraping, it is recommended to check the website and understand it's structure, what data it has.
- As per the current task, we have around 1000 books, distributed on multiple pages. We will scrape the data of all of books.

## Steps to Scrape:

- O Send sequest to http://books.toscrape.com/
- 2) Scroll through all the search
- 3) For Every search page, scrape the Url of all the Book present on the page:
  - O For each Look, visit the Book's page and Extract information From Table
  - De Parse and store table into Dictionary
  - 3) Post process to convert info into right Data-type.

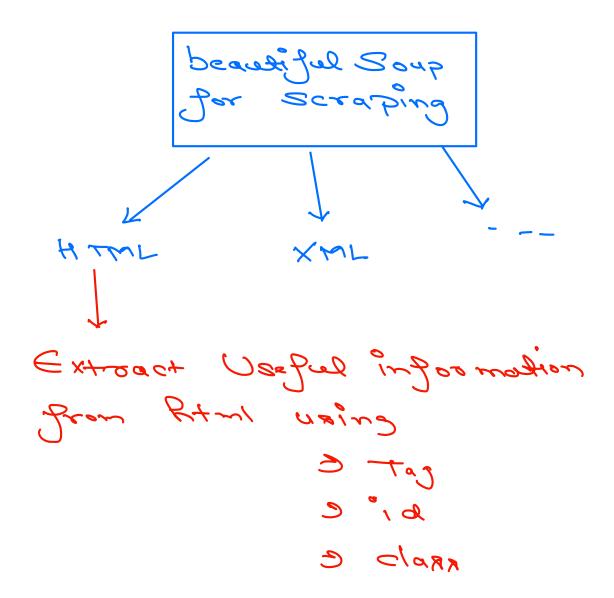
request module

Python module that exables interacting with web-services and apies directly interacting; HILL weepods for 9 delete ex.c. get Coptional Parany 2 Auth 5 Readers

Cinformation)
(data)

## Information about some common staus codes:

- 1. 200 OK: The request has been successfully processed, and the server returns the requested content. \
- 2. **404 Not Found**: The requested resource or page could not be found on the server.
- 3. **403 Forbidden**: Access to the requested resource is forbidden or not allowed for the client.
- 4. 500 Internal Server Error: The server encountered an unexpected error while processing the request.
- 5. **302 Found (or 301 Moved Permanently)**: The requested resource has been temporarily (or permanently) moved to a different URL, and the client should follow the redirection.



```
{'name': 'Tipping the Velvet',
  'UPC': '90fa61229261140a',
  'Product Type': 'Books',
  'Price (excl. tax)': 'f53.74',
  'Price (incl. tax)': 'f53.74',
  'Tax': 'f0.00',
  'Availability': 'In stock (20 available)',
  'Number of reviews': '0',
  'url': 'http://books.toscrape.com/catalogue

Stock
```