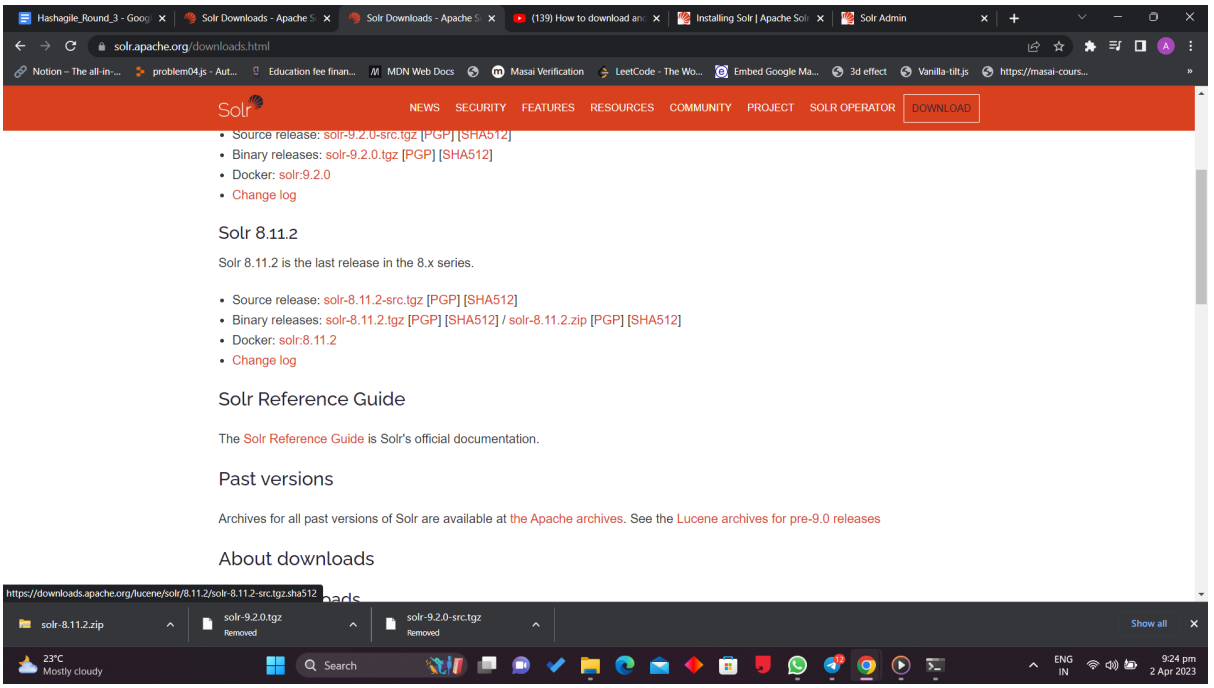
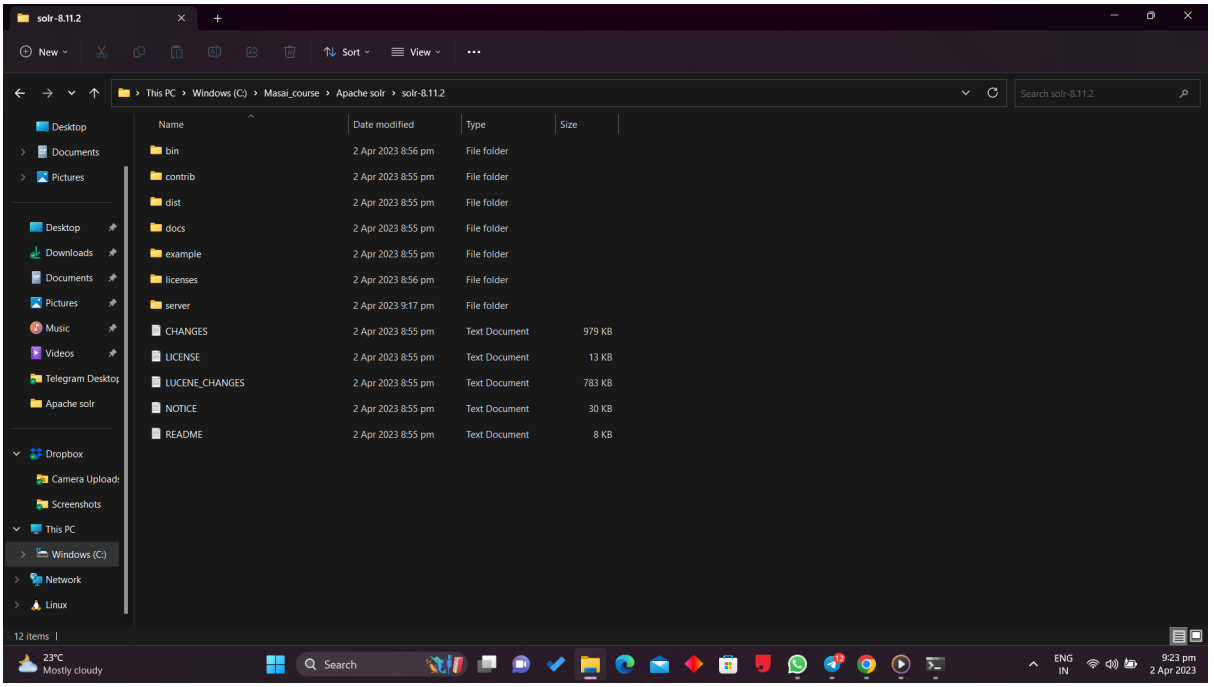
1. Installing Apache Solr:

- Install java if not using (“apt install openjdk-19-jre-headless”) for ubuntu;
- Visit the Apache Solr download page (https://solr.apache.org/downloads.html)
- Download the Solr archive suitable for your operating system. I downloaded 8.11.2.zip.

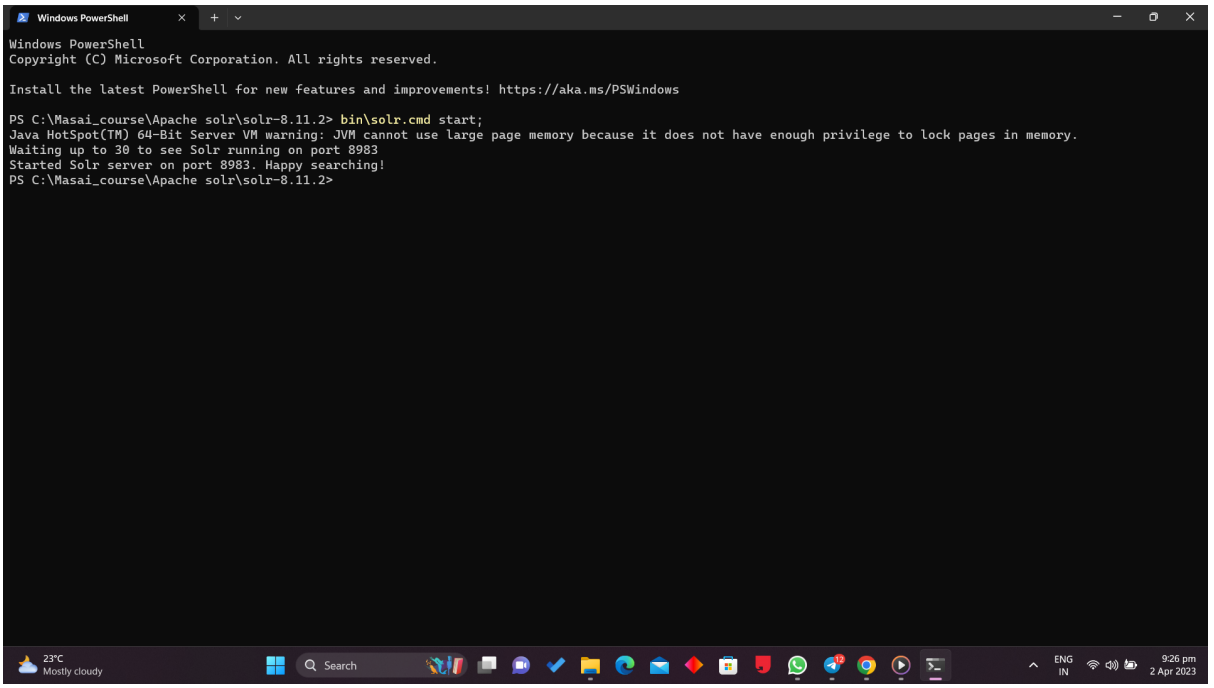


- Extract the downloaded archive to a folder of your choice.

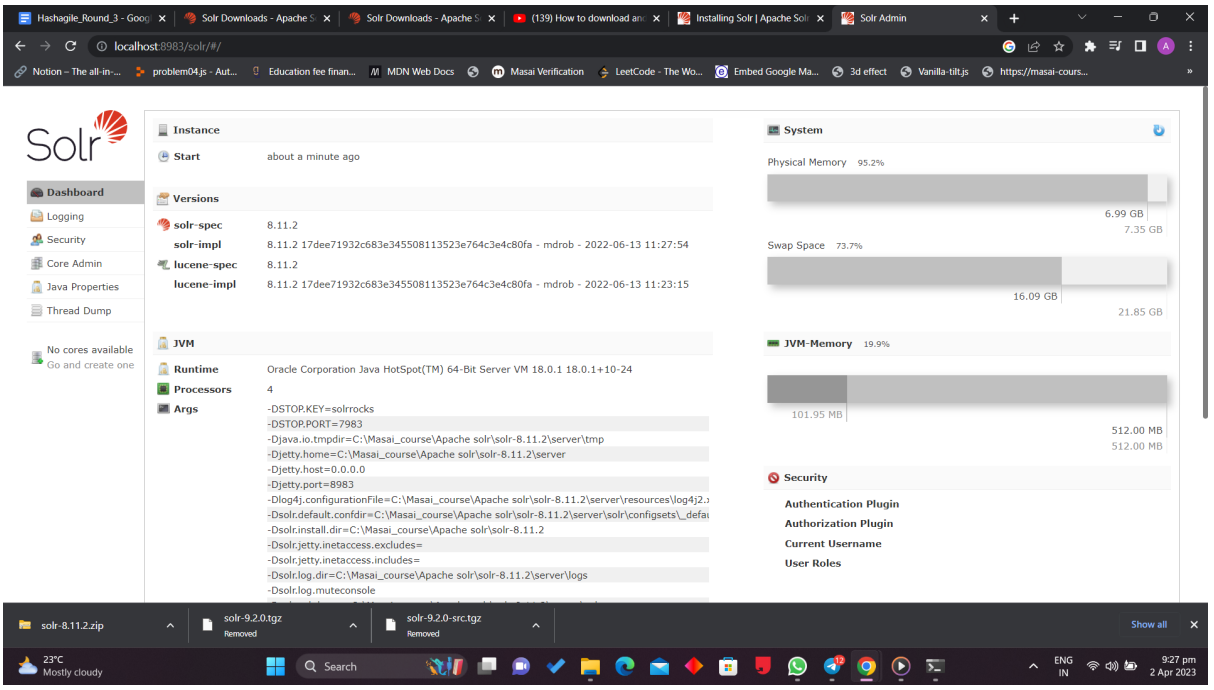


2. Creating a Collection:

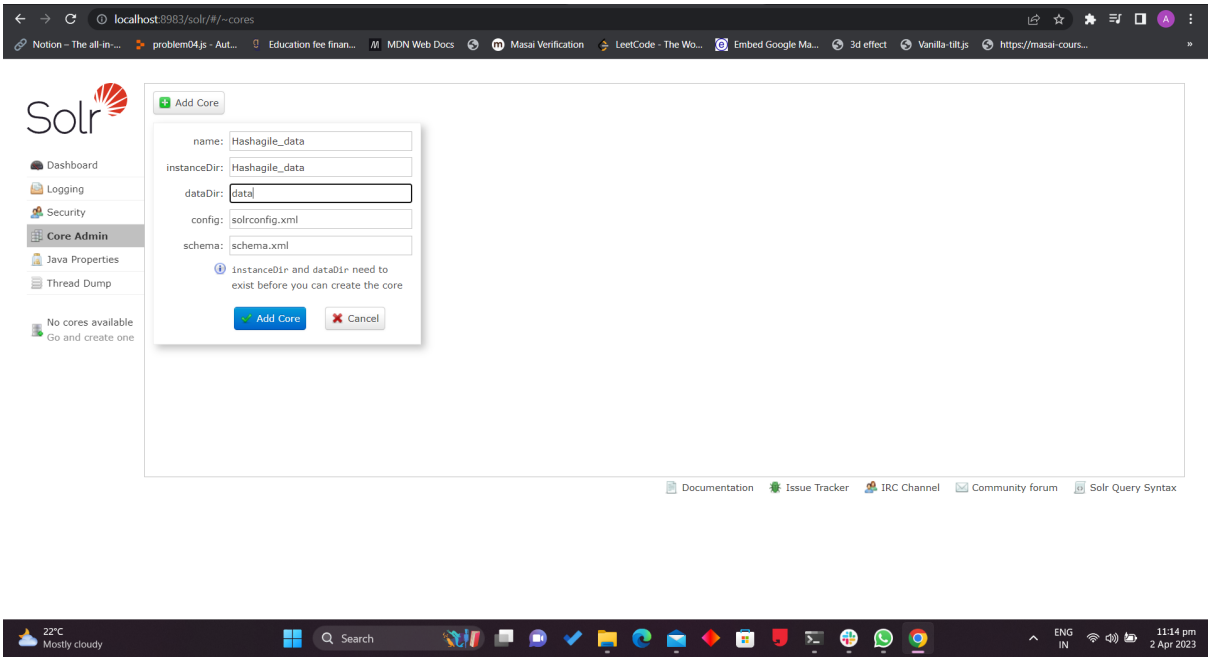
- Open the terminal or command prompt and navigate to the Solr bin directory.
- Type the following command to start the Solr server: “bin\solr.cmd start”.



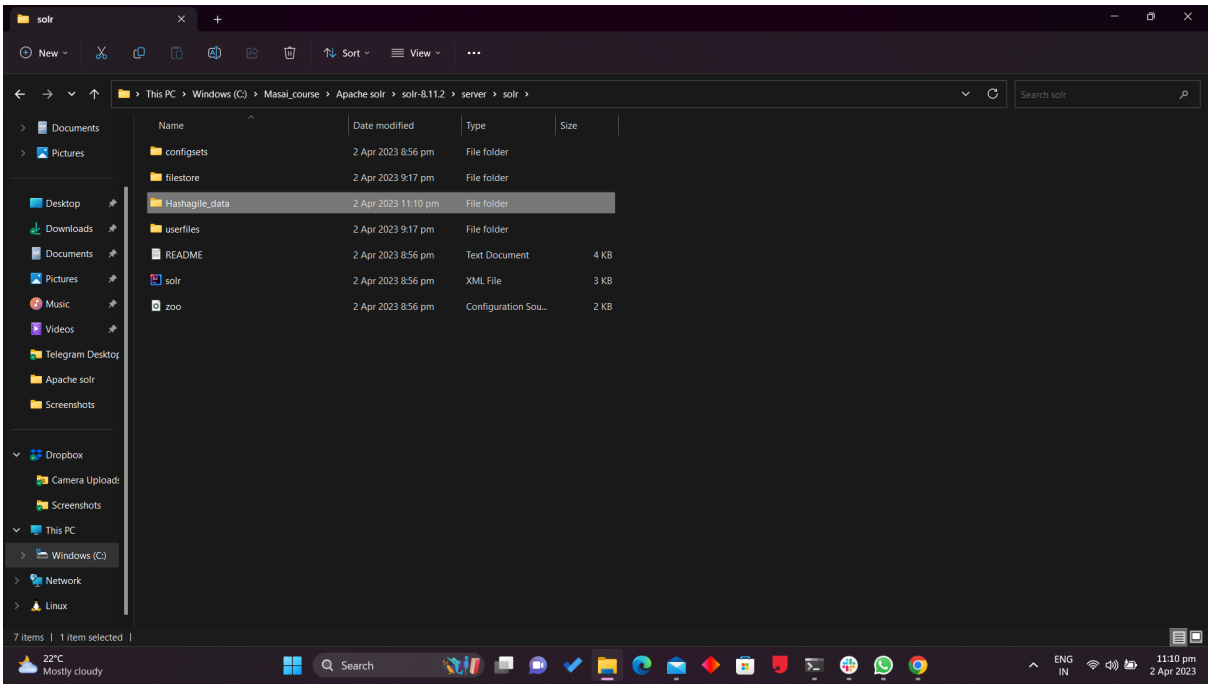
- Once the server is started, you can access the Solr Admin UI by visiting http://localhost:8983/solr/.



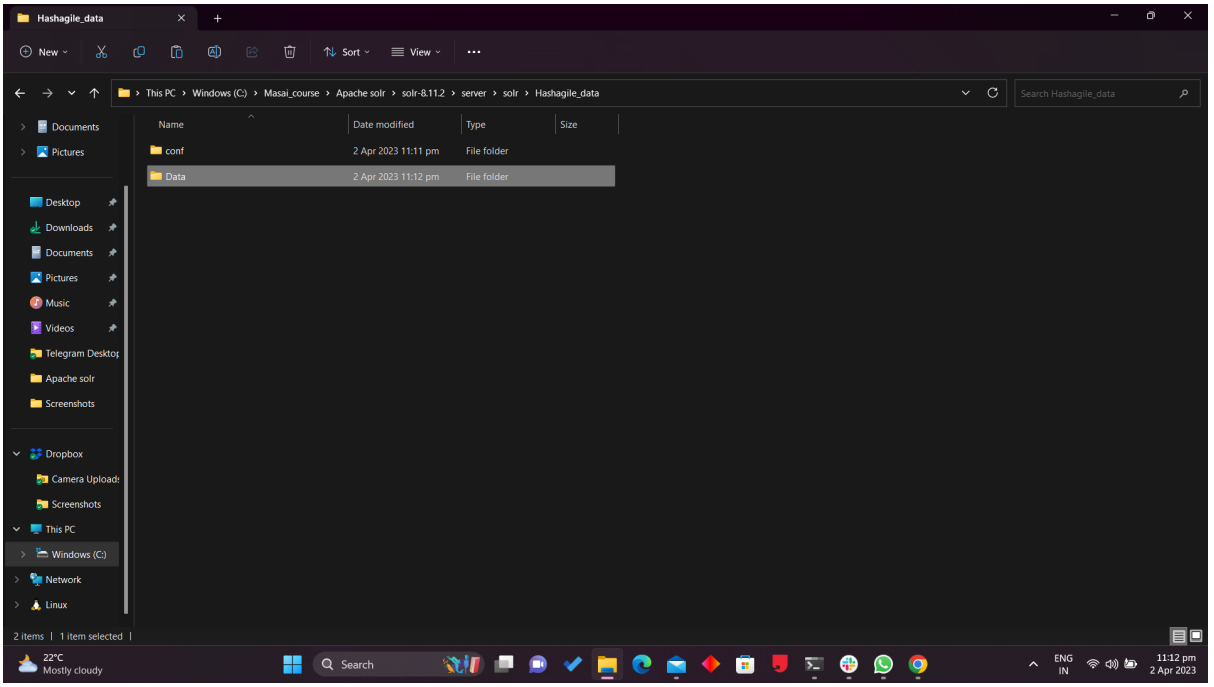
- Click on the "Collections(Core)" link in the left navigation menu.



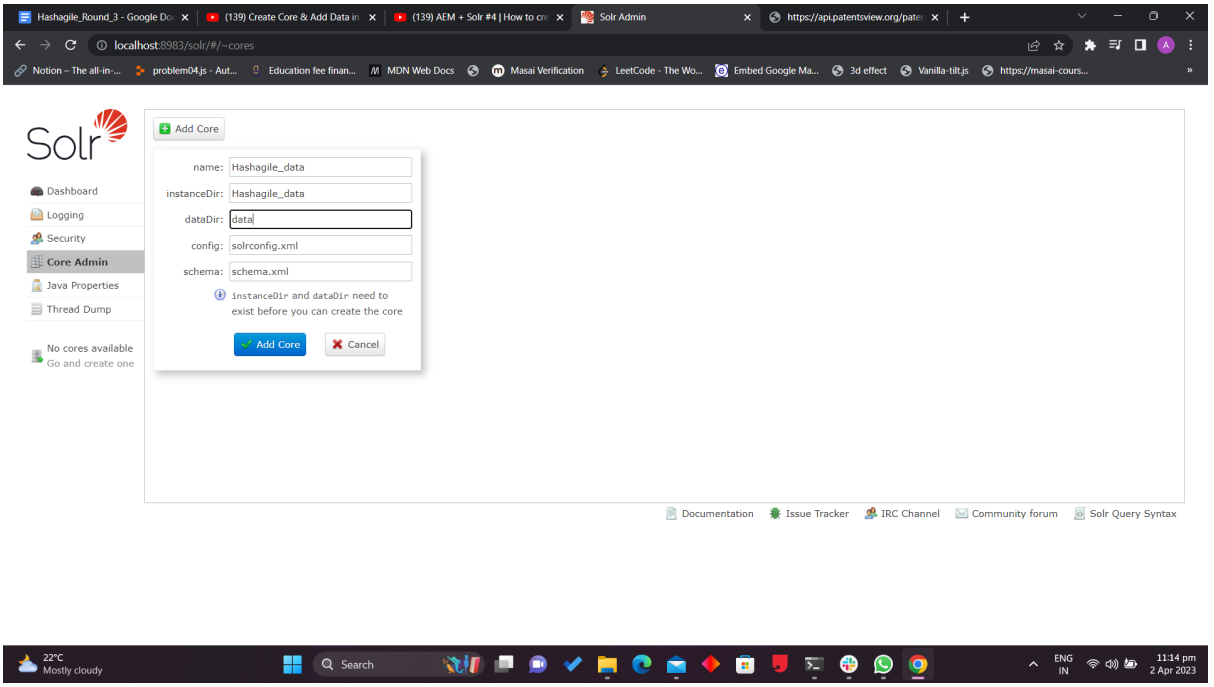
- Click on the "Add Collection" button to create a new collection.
- Fill in the form with the desired collection name, number of shards, and replication factor Note(Make Sure create directory on “\solr-8.11.2\server\solr/`core_name`”).



- Create 2 directory and copy (“\solr-8.11.2\server\solr\configsets\sample_techproducts_configs/config) and paste it in core config.

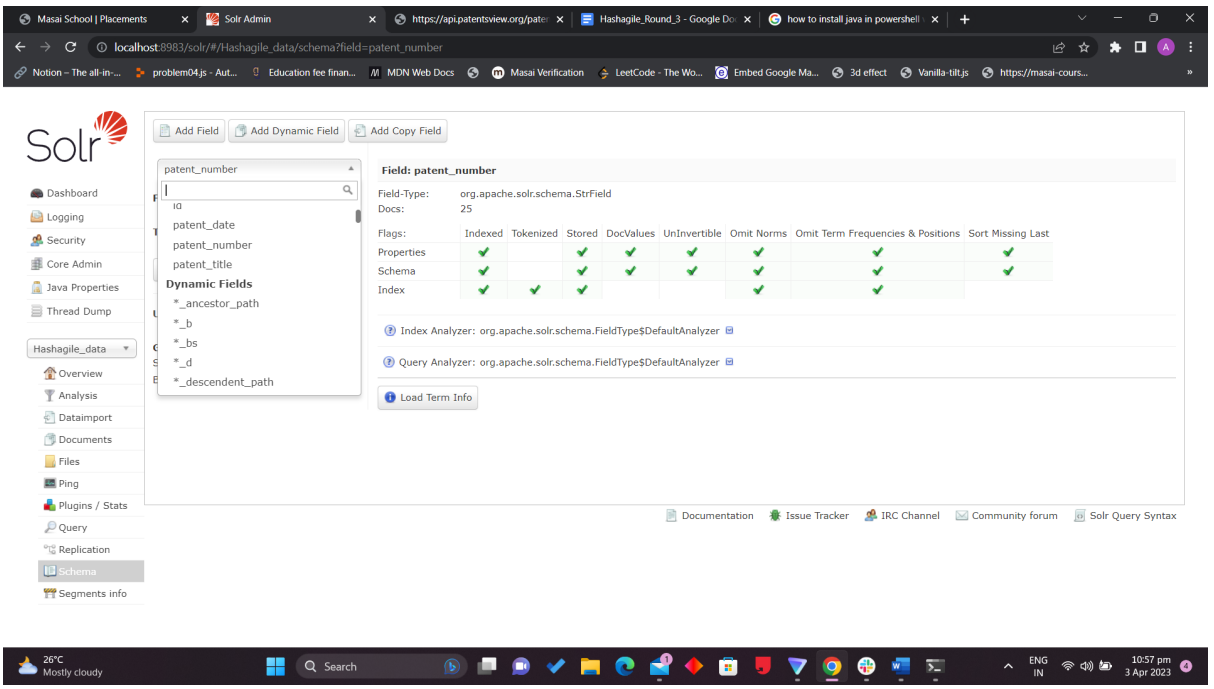


- Click on the "Add Collection" button to create the collection.

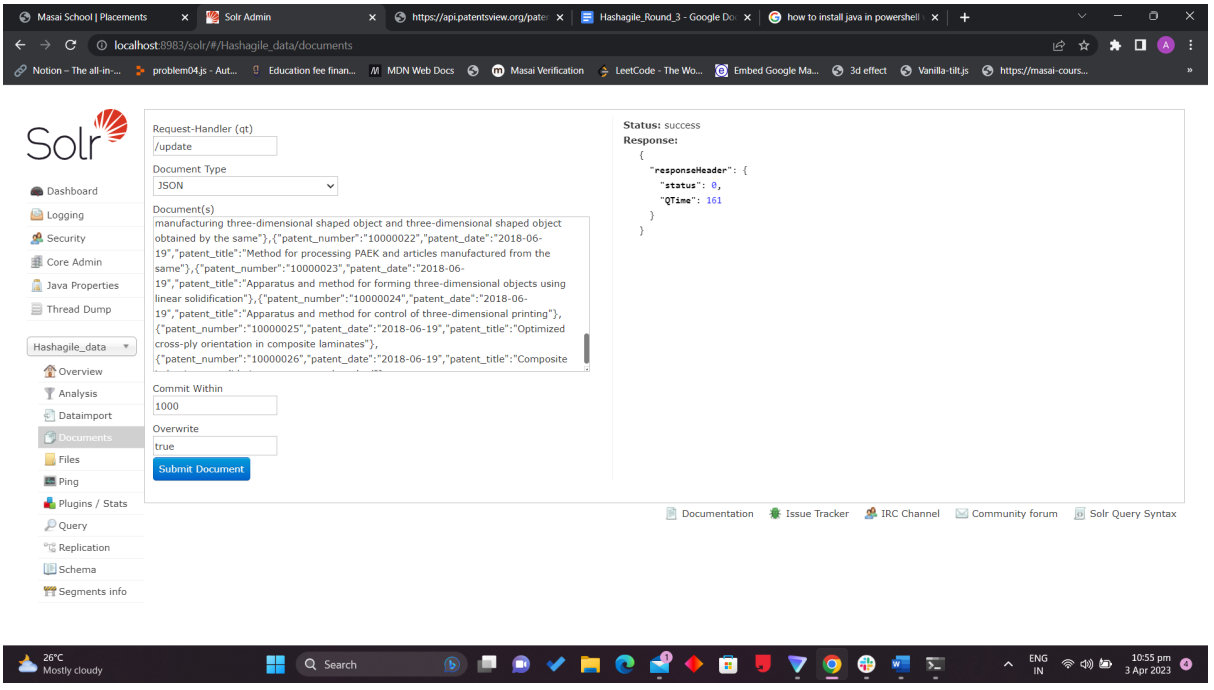


3. Indexing Data:

- In the Solr Admin UI, navigate to the "Core Selector" dropdown in the top right corner and select the collection you just created.
- Create schema for Data;
    - Click ‘schema’ section
    - Click ‘add Field’



- Click on the "Documents" link in the left navigation menu.
- Click on the "Add Document" button to add a new document.
- Enter some sample data in the fields that you defined earlier.
- Click on the "Submit Document" button to index the data.



5. Searching Data:

- In the Solr Admin UI, navigate to the "Core Selector" dropdown in the top right corner and select the collection you just created.
- Click on the "Query" link in the left navigation menu.

- Enter a search query in the "q" field.
- Click on the "Execute Query" button to see the search results.