

Mongo DB

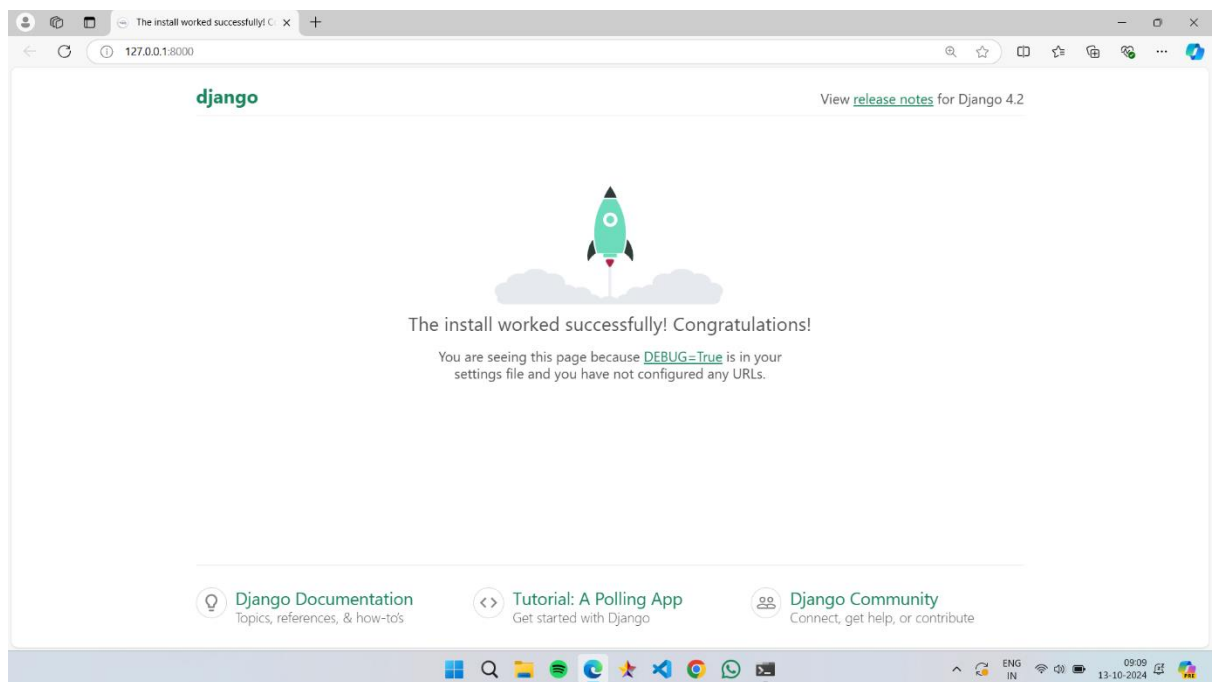
Crud operations with MongoDB

1) Creating Django project :

```
C:\MongoDB>django-admin startproject Nosql
C:\MongoDB>cd Nosql
C:\MongoDB\Nosql>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).

You have 18 unapplied migration(s). Your project may not work properly until you apply the migrations for app(s): admin, auth, contenttypes, sessions.
Run 'python manage.py migrate' to apply them.
October 13, 2024 - 23:27:32
Django version 4.2.8, using settings 'Nosql.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```



2) Creating app for Django :

```
File Edit Selection View Go Run ...  
NOSQL  
  Nosql  
    __pycache__  
    __init__.py  
    asgi.py  
    settings.py  
    urls.py  
    wsgi.py  
  Notion  
    migrations  
    admin.py  
    apps.py  
    models.py  
    tests.py  
    views.py  
  db.sqlite3  
  manage.py  
  OUTLINE  
  TIMELINE  
Launchpad 0 0 0 0  
Go Live  
23:31  
13-10-2024
```

Traceback (most recent call last):
File "C:\MongoDB\Nosql\manage.py", line 11, in main
from django.core.management import execute_from_command_line
ModuleNotFoundError: No module named 'django'

The above exception was the direct cause of the following exception:

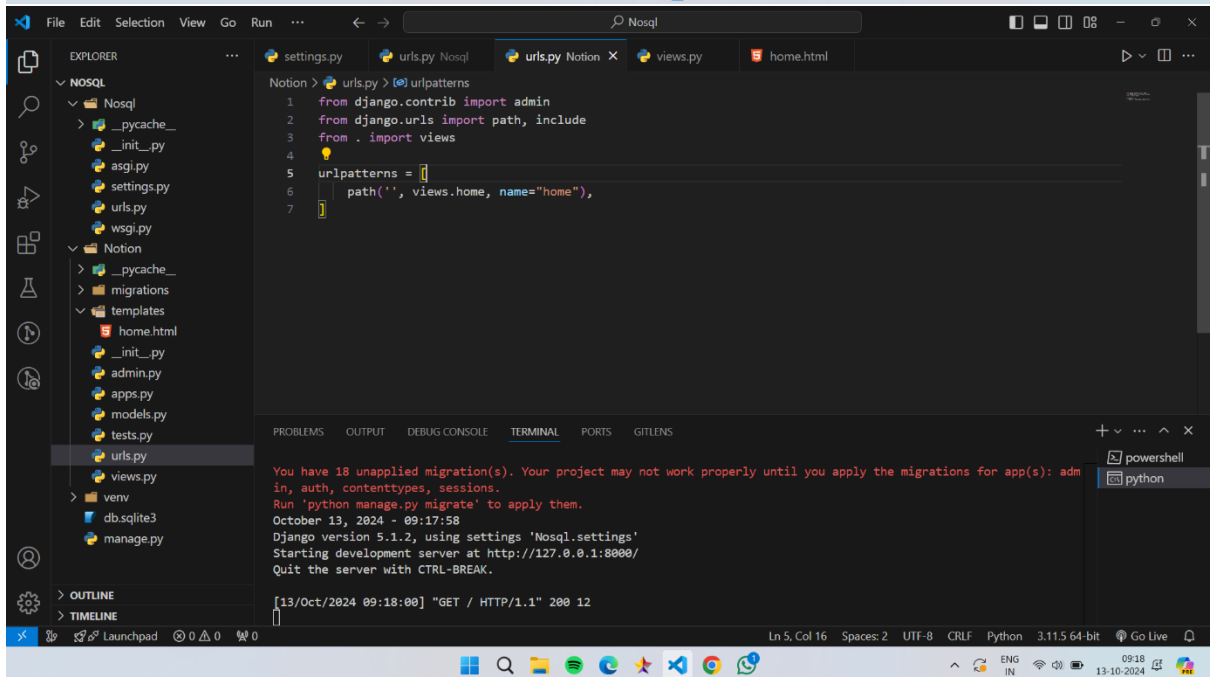
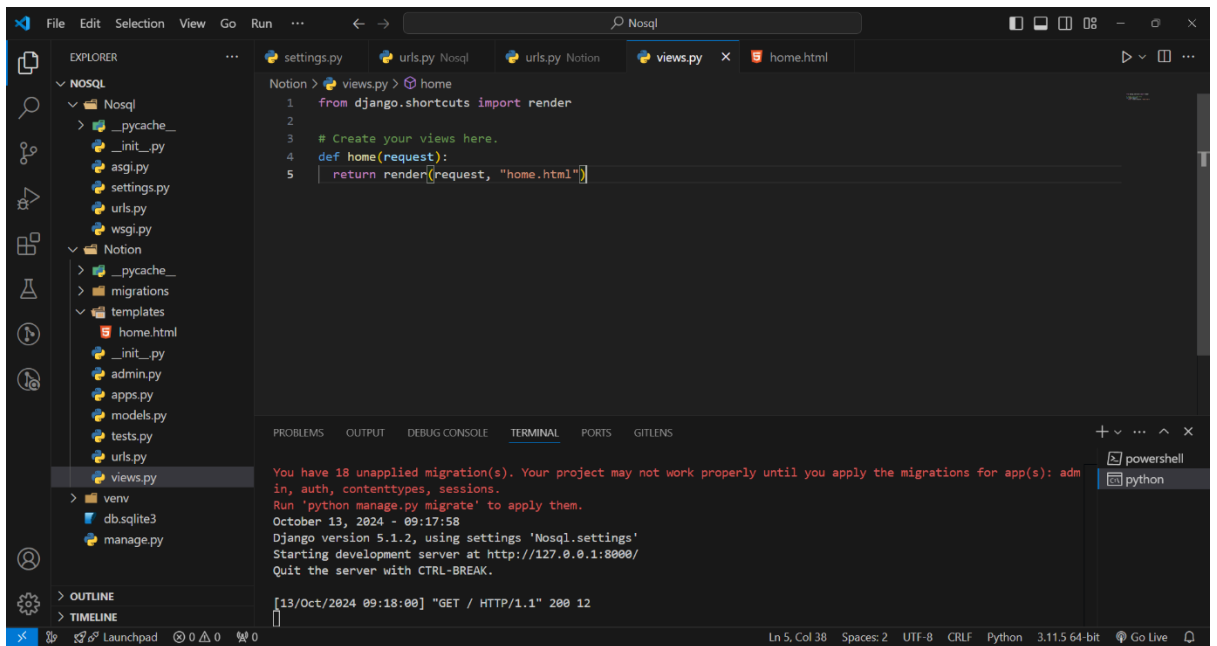
Traceback (most recent call last):
File "C:\MongoDB\Nosql\manage.py", line 22, in <module>
main()
File "C:\MongoDB\Nosql\manage.py", line 13, in main
raise ImportError(
ImportError: Couldn't import Django. Are you sure it's installed and available on your PYTHONPATH environment variable? Did you forget to activate a virtual environment?

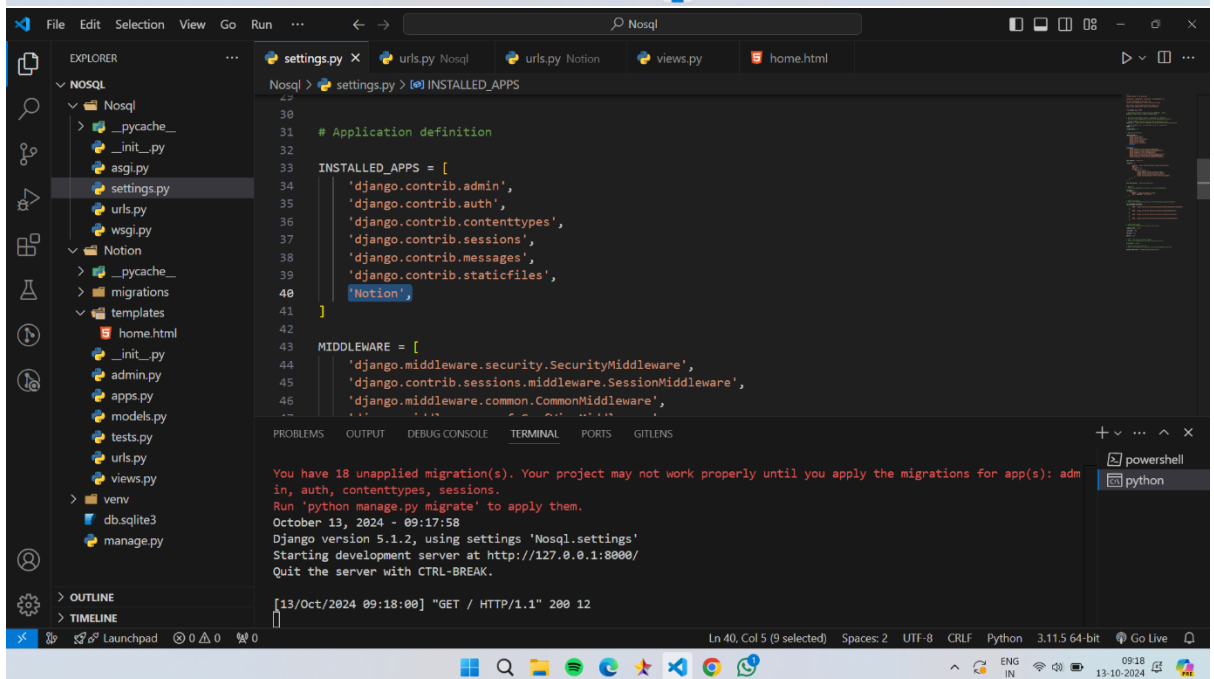
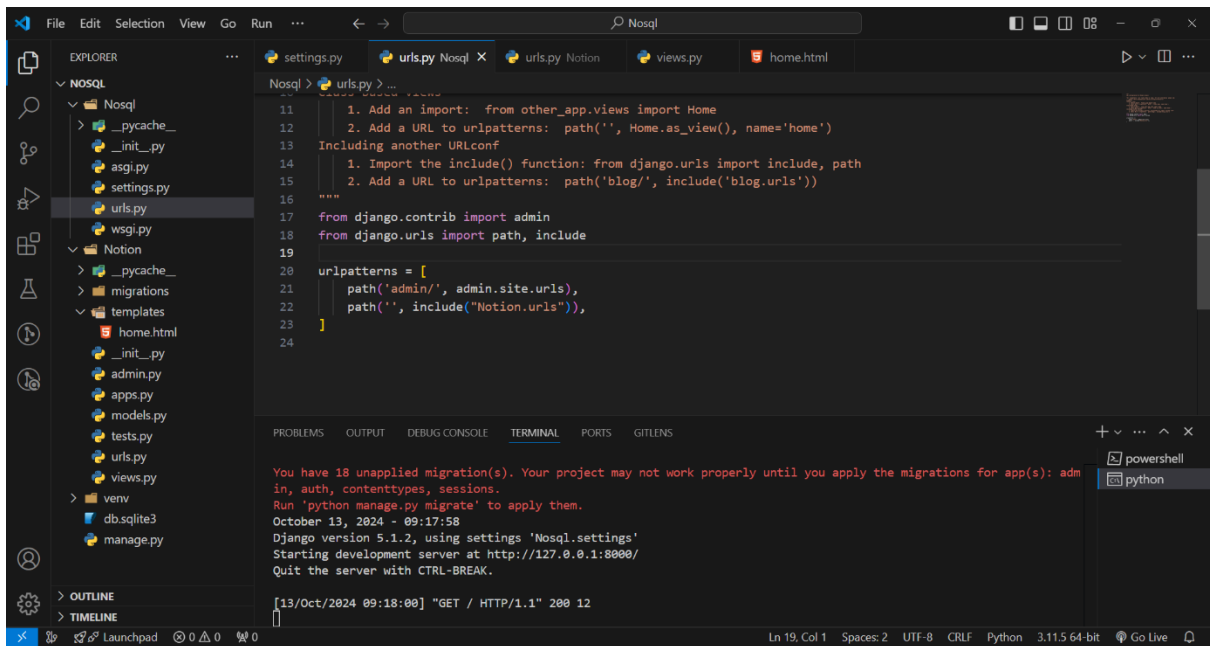
(venv) C:\MongoDB\Nosql>pip install django
Collecting django
Using cached Django-5.1.2-py3-none-any.whl (8.3 MB)
Collecting asgiref<4,>=3.8.1
Using cached asgiref-3.8.1-py3-none-any.whl (23 kB)
Collecting tzdata
Using cached tzdata-2024.2-py2.py3-none-any.whl (346 kB)
Collecting sqlparse>=0.3.1
Using cached sqlparse-0.5.1-py3-none-any.whl (44 kB)
Collecting typing-extensions>=4
Using cached typing_extensions-4.12.2-py3-none-any.whl (37 kB)
Installing collected packages: tzdata, typing-extensions, sqlparse, asgiref, django
Successfully installed asgiref-3.8.1 django-5.1.2 sqlparse-0.5.1 typing-extensions-4.12.2 tzdata-2024.2

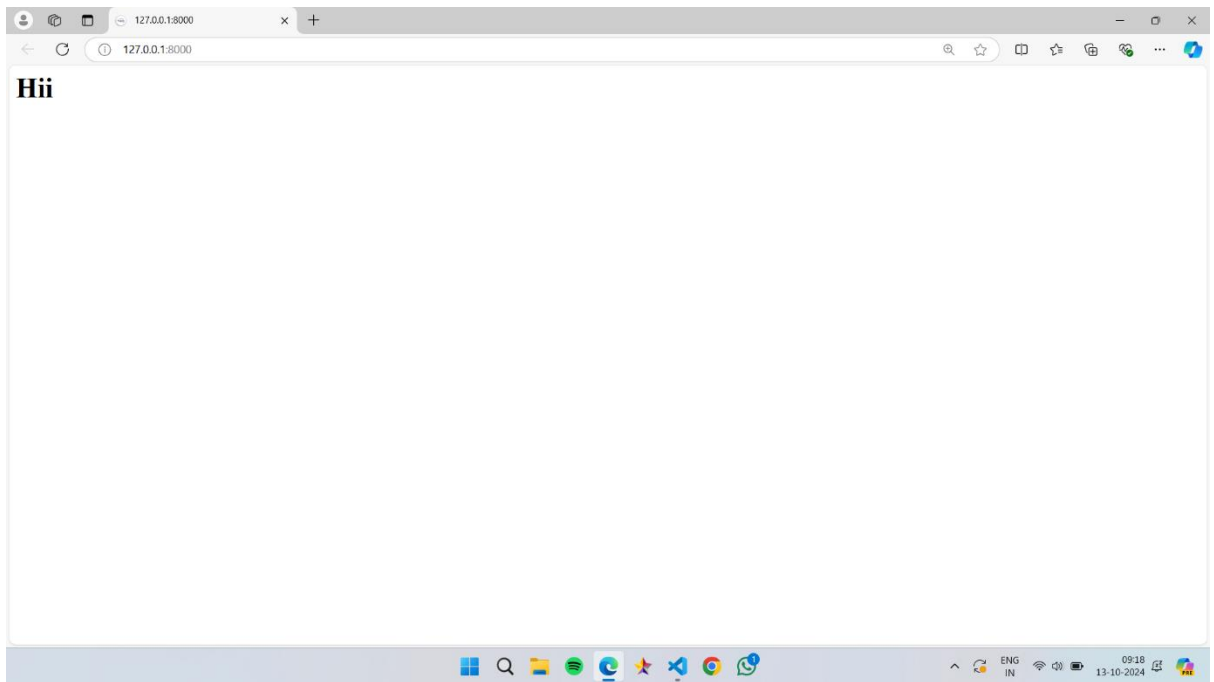
[notice] A new release of pip is available: 23.0.1 -> 24.2
[notice] To update, run: python.exe -m pip install --upgrade pip

(venv) C:\MongoDB\Nosql>python manage.py startapp Notion

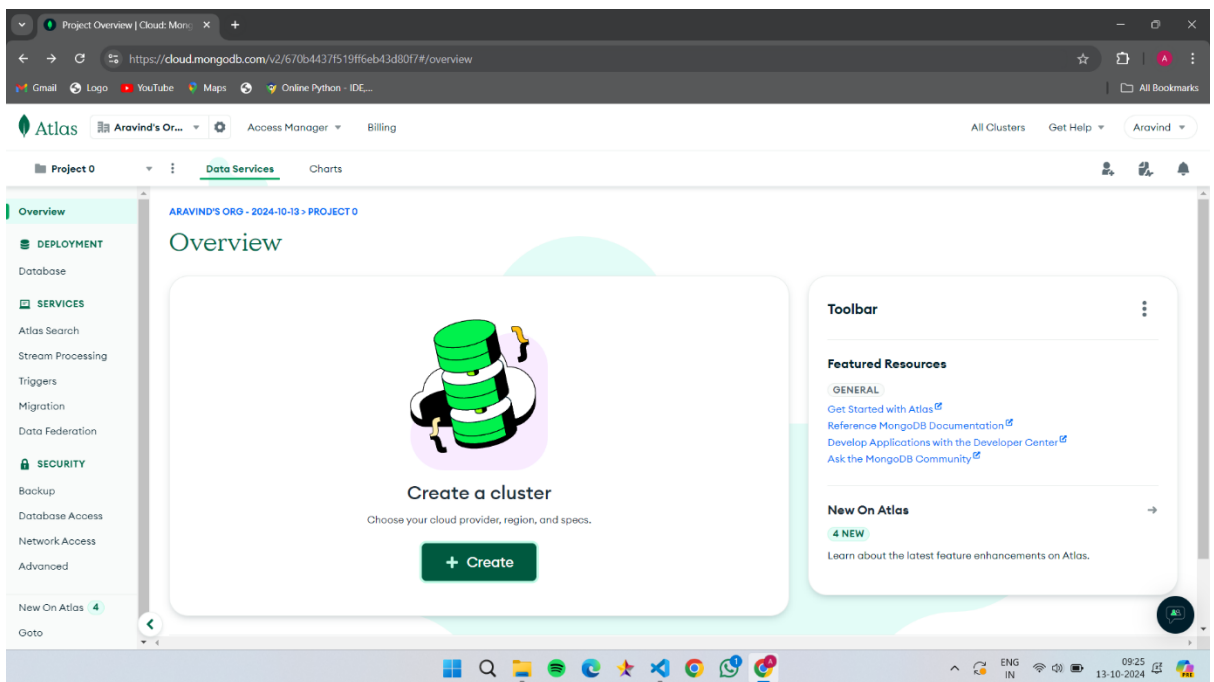
3) Displaying an html in Django :







4) Creating Cluster, Database and Collection in MongoDB :



Deploy your cluster | Cloud: MongoDB

ChatGPT

https://cloud.mongodb.com/v2/670b1268a13b62155f6f977#/clusters/starterTemplates?from=ctaClusterHeader

Deploy your cluster

Use a template below or set up advanced configuration options. You can also edit these configuration options once the cluster is created.

M10

\$0.08/hour

For production applications with sophisticated workload requirements.

STORAGE

10 GB

RAM

2 GB

vCPU

2 vCPUs

Serverless

For application development and testing, or workloads with variable traffic.

STORAGE

Up to 1TB

RAM

Auto-scale

vCPU

Auto-scale

M2

\$0.012/hour

For learning and exploring MongoDB in a cloud environment.

STORAGE

2 GB

RAM

Shared

vCPU

Shared

You will be billed hourly and can terminate your cluster anytime. Excludes variable data transfer, backup, and taxes.

Name

You cannot change the name once the cluster is created.

DBNotion

This cluster name already exists in this project. Please choose another.

☒ Automate security setup

I'll do this later

Go to Advanced Configuration

Create Deployment

Project Overview | Cloud: MongoDB

ChatGPT

https://cloud.mongodb.com/v2/670b4437f519ff6eb43d80f7#/overview?automateSecurity=true&connectCluster=NotionDB

Atlas

Aravind's Org - 2024-10

Access M...

Project 0

Data Services

Overview

DEPLOYMENT

Database

SERVICES

Atlas Search

Stream Processing

Triggers

Migration

Data Federation

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

New On Atlas 4

We are deploying your cluster.

ARAVIND'S ORG - 2024-10

Overview

Clusters

NotionDB

Connect to NotionDB

1

2

3

Set up connection security

Choose a connection method

Connect

You need to secure your MongoDB Atlas cluster before you can use it. Set which users and IP addresses can access your cluster now. [Read more](#)

1. Add a connection IP address

✓ Your current IP address (223.185.216.243) has been added to enable local connectivity. Add another later in [Network Access](#).

2. Create a database user

This first user will have [atlasAdmin](#) permissions for this project.

We autogenerated a username and password. You can use this or create your own.

ⓘ You'll need your database user's credentials in the next step. Copy the database user password.

Username

admin

Password

admin

HIDE

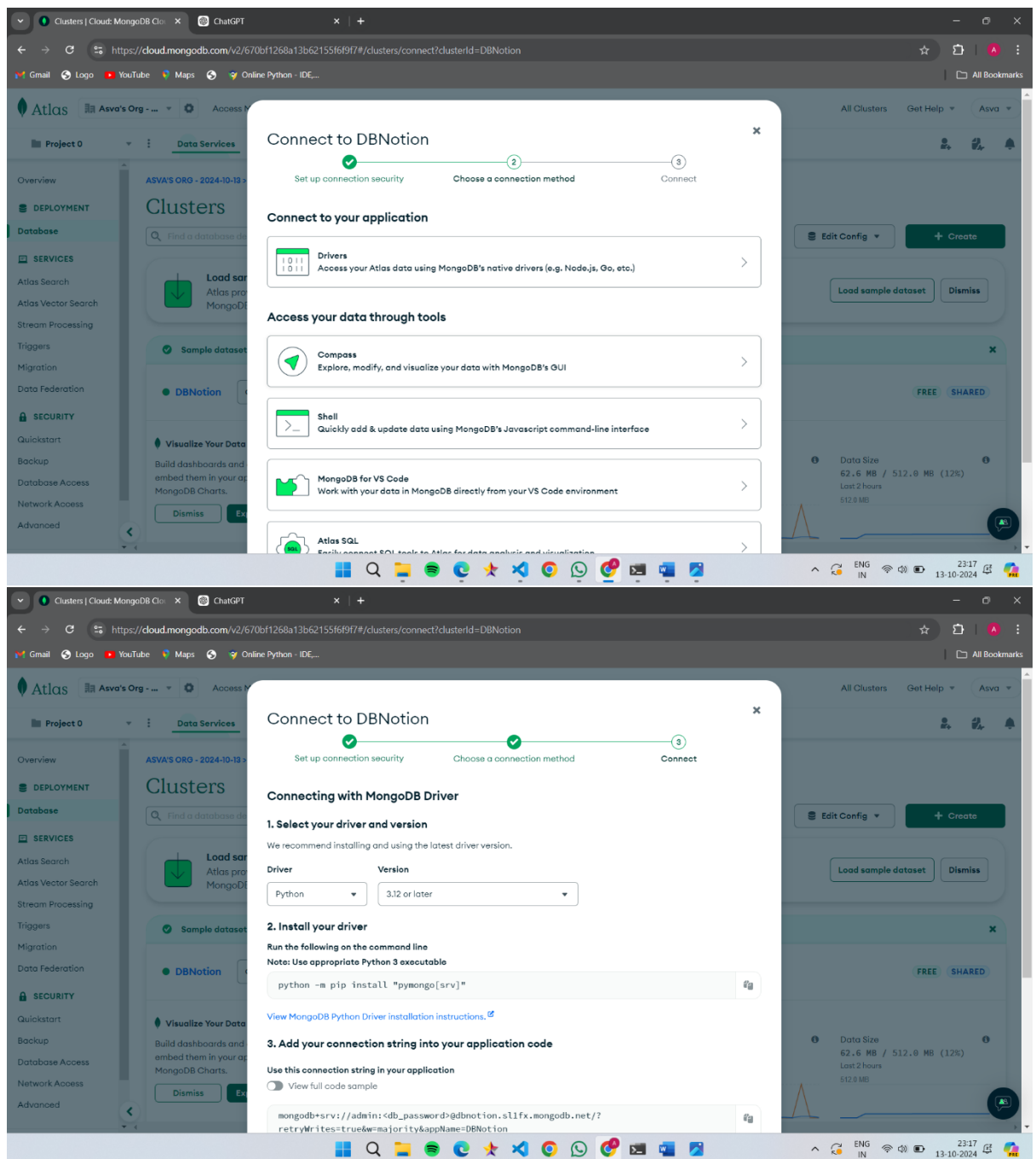
Copy

Create Database User

Close

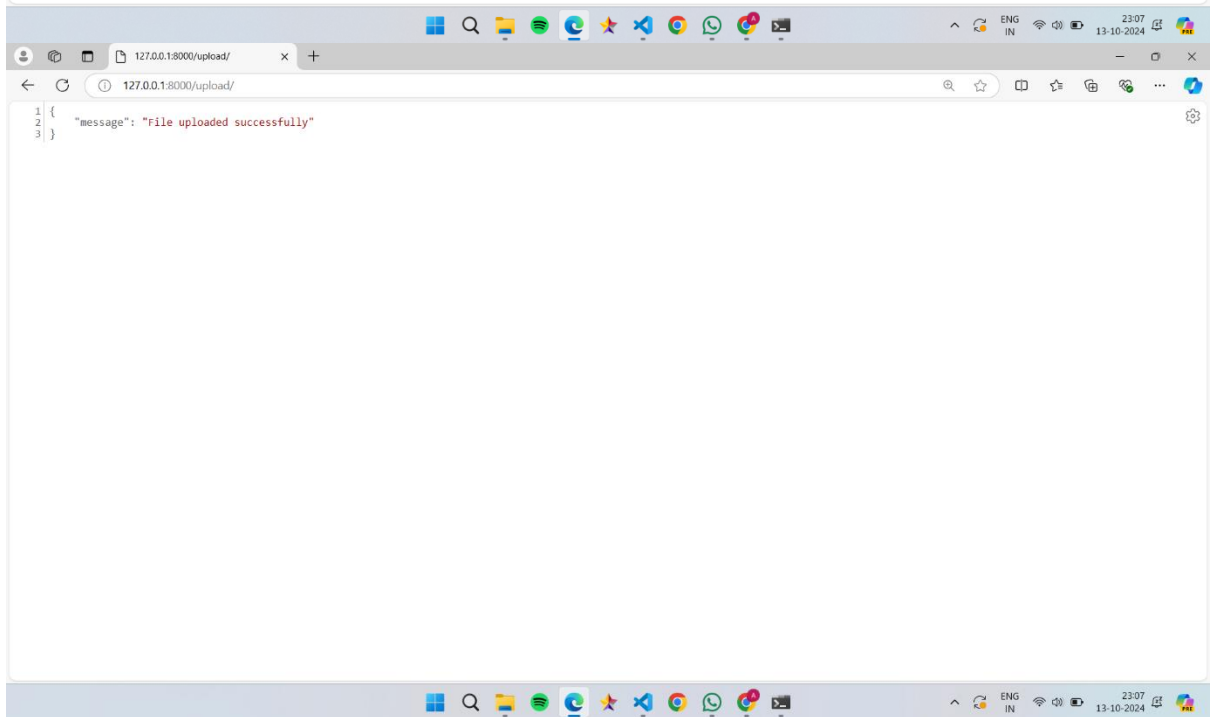
Choose a connection method

09:26 13-10-2024



5) CRUD Operations :

i) Inserting document :



DBNotion Data | Cloud: Mongo... ChatGPT

https://cloud.mongodb.com/v2/670bf1268a13b62155f6f977#/metrics/replicaSet/670bf21bfd968487bd97/ca3/explorer/DBNotion/crud/find

Atlas Asva's Org Access Manager Billing All Clusters Get Help Asva

Project 0 Data Services Charts

Overview

DEPLOYMENT

Database

SERVICES

Atlas Search

Atlas Vector Search

Stream Processing

Triggers

Migration

Data Federation

SECURITY

Quickstart

Backup

Database Access

Network Access

Advanced

+ Create Database

Search Namespaces

DBNotion

crud

fs.chunks

fs.files

sample_mflix

System Status: All Good

DBNotion.crud

STORAGE SIZE: 36KB LOGICAL DATA SIZE: 243B TOTAL DOCUMENTS: 2 INDEXES TOTAL SIZE: 36KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter Type a query: { field: 'value' } Reset Apply Options

```
{ "_id": ObjectId("670bf1268a13b62155f6f977"),  
  "file_id": ObjectId("670bf21bfd968487bd97"),  
  "filename": "Course.xlsx",  
  "description": "abc",  
  "uploaded_at": 2024-10-13T22:27:46.031+00:00  
}
```

```
{ "_id": ObjectId("670c954984e186f69e499738"),  
  "file_id": ObjectId("670c054884e186f69e49972e"),  
  "filename": "Inventory excel.xlsx",  
  "description": "Inventory excel",  
  "uploaded_at": 2024-10-13T23:07:13.558+00:00  
}
```

Document List

Filename	Description	Actions
Course.xlsx	abc	View Update Delete
Inventory excel.xlsx	Inventory excel	View Update Delete

[Upload New File](#) | [Insert New Document](#)

ii) Updating document :

Document List

127.0.0.1:8000/list/

Document List

Filename	Description	Actions
Course.xlsx	abc	View Update Delete
Inventory excel.xlsx	inventory excel	View Update Delete

[Upload New File](#) | [Insert New Document](#)

127.0.0.1:8000/update/670bfc0a4b20c292f7d387c5/

Update Document

127.0.0.1:8000/update/670bfc0a4b20c292f7d387c5/

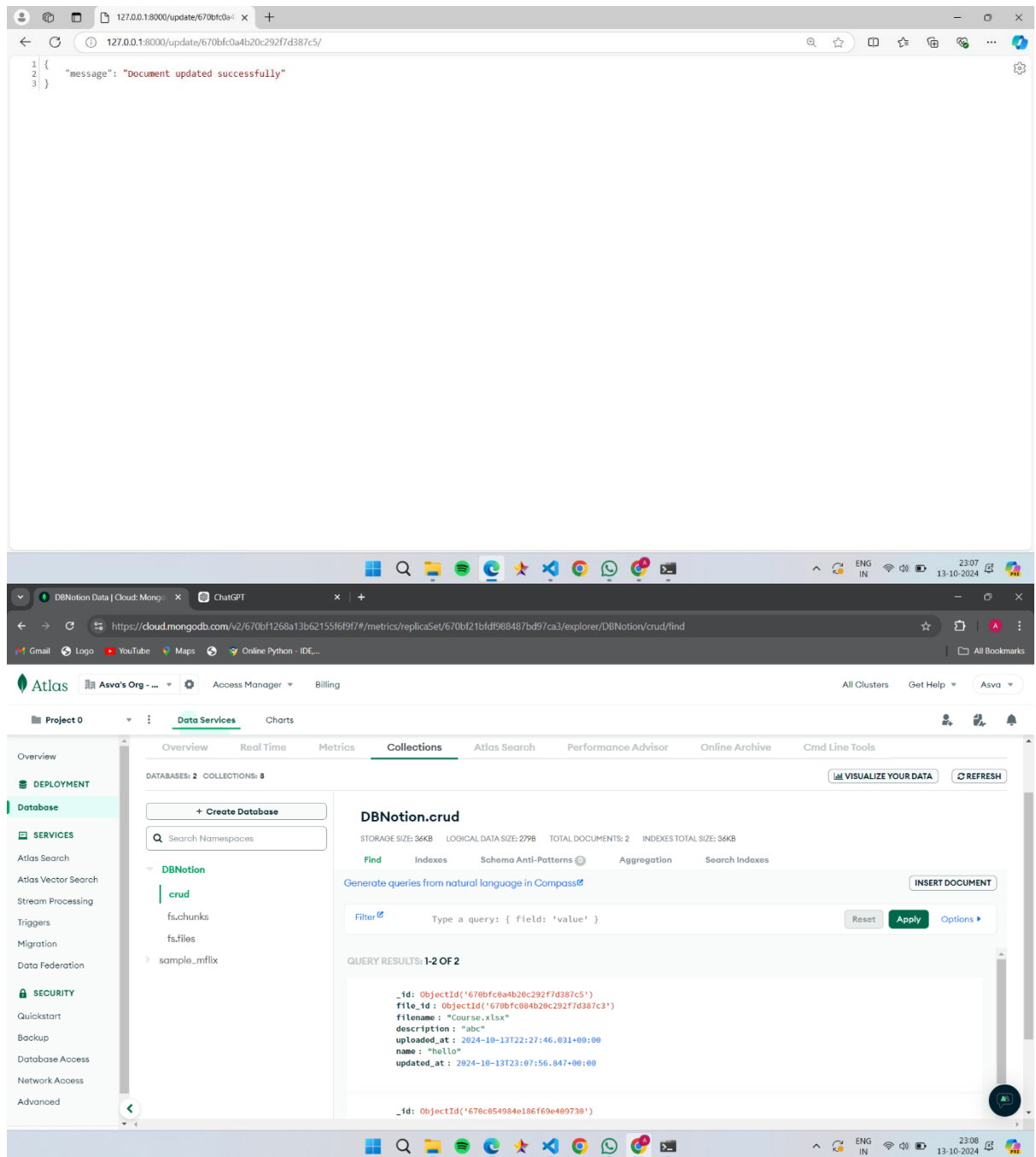
Update Document

Name:

abc

Description:

[Back to List](#)



iii) Deleting document :

Document List

127.0.0.1:8000/list/

Document List

Filename	Description	Actions
Course.xlsx	abc	View Update Delete

[Upload New File](#) | [Insert New Document](#)

127.0.0.1:8000/delete/670bfc0a4b20c292f7d387c5/

127.0.0.1:8000/delete/670bfc0a4b20c292f7d387c5/

```
1 {
2   "message": "Document deleted successfully"
3 }
```