

## **API Endpoints:**

1. Create a New Blog:
  - Method: POST
  - URL: /new/blog
  - Request Body: BlogModel
  - Description: Endpoint for creating a new blog post.
  - Response:json
2. Retrieve All Blogs:
  - Method: GET
  - URL: /all/blogs
  - Description: Endpoint for retrieving all blog posts.
  - Response:json
3. Retrieve a Single Blog:
  - Method: GET
  - URL: /blog/{\_id}
  - Description: Endpoint for retrieving a single blog post by its ID.
  - Response:json
4. Update a Blog:
  - Method: PATCH
  - URL: /update/{\_id}
  - Request Body: UpdateBlogModel
  - Description: Endpoint for updating an existing blog post.
  - Response:json
5. Delete a Blog:
  - Method: DELETE
  - URL: /delete/{\_id}
  - Description: Endpoint for deleting an existing blog post.
  - Response:json

## **Data Models:**

1. BlogModel:
  - Fields:
    - title (string): Title of the blog post.
    - sub\_title (string): Subtitle of the blog post.
    - content (string): Content of the blog post.
    - author (string): Author of the blog post.
    - tags (list): List of tags associated with the blog post.
2. UpdateBlogModel:
  - Fields:
    - title (string, optional): Updated title of the blog post.
    - sub\_title (string, optional): Updated subtitle of the blog post.
    - content (string, optional): Updated content of the blog post.
    - author (string, optional): Updated author of the blog post.
    - tags (list, optional): Updated list of tags associated with the blog post.

## STEPS

### 1. Creating a Virtual Environment and Activating It:

Create a Virtual Environment:

Open your terminal.

Navigate to your project directory (9ai) using the cd command.

Run the following command to create a virtual environment named venv:

```
python3 -m venv venv
```

Activate the Virtual Environment:

Run the following command to activate the virtual environment:

- On macOS/Linux:  
`source venv/bin/activate`
- On Windows:  
`venv\Scripts\activate`

### 2. Installing Required Packages:

With the virtual environment activated, install the required packages using pip:

```
pip install uvicorn pymongo fastapi
```

### 3. Setting Up Connection:

1. Navigate to 9ai-config-config.py
2. Modify line no.4
3. Enter the username (9ai) and password (12349ai) for your MongoDB database user.

```
uri = "mongodb+srv://<user>:<pass>app.7kssw1z.mongodb.net/?  
retryWrites=true&w=majority&appName=9aiapp"
```

### 4. Running the Application:

1. With the virtual environment activated and MongoDB cluster set up, run the following command to start your application:

css

```
uvicorn main:app --reload
```

2. Navigate to <http://127.0.0.1:8000/docs> to view API documentation

### 5. Working of the application

FastAPI0.1.0OAS 3.1

/openapi.json

default

GET / Apirunning

POST /new/blog Newblog

Parameters

Cancel

Reset

No parameters

Request body required

application/json

```
{
  "title": "9ai",
  "sub_title": "githubrepo",
  "content": "link for github repo",
  "author": "Thanks for considering my application",
  "tags": [
    "JS"
  ]
}
```



Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://127.0.0.1:8000/new/blog' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
```

```
-d '{
  "title": "9ai",
  "sub_title": "githubrepo",
  "content": "link for github repo",
  "author": "Thanks for considering my application",
  "tags": [
    "JS"
  ]
}'
```

Request URL

http://127.0.0.1:8000/new/blog

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{   "status": "ok",   "message": "Blog posted successfully",   "_id": "6640206371c3532a53f7e187" }</pre></div><div>Download</div></div> <div><div>Response headers</div><div><pre>content-length: 85 content-type: application/json date: Sun, 12 May 2024 01:50:26 GMT server: uvicorn</pre></div></div>

Responses

Code	Description	Links
200	<div>Successful Response</div> <div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div>"string"</div>	No links
422	<div>Validation Error</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><pre>{   "detail": [     {       "loc": [         "string", </pre></div>	No links

Code

Description

Links

```
0
],
"msg": "string",
"type": "string"
}
]
}
```

GET

/all/blogs Allblogs

^

Parameters

Cancel

No parameters

Execute

Clear

Responses

Curl

curl -X 'GET' \
'http://127.0.0.1:8000/all/blogs' \
-H 'accept: application/json'

Request URL

http://127.0.0.1:8000/all/blogs

Server response

Code

Details

200

Response body

{
"status": "ok",
"data": [
{
\_id": "66401fcb71c3532a53f7e186",
"title": "string",
"sub\_title": "string",
"content": "string",
"author": "itsreallyyash",
"date": "2024-05-12"
},
{
\_id": "6640206371c3532a53f7e187",
"title": "9ai",
"sub\_title": "githubrepo",
"content": "link for github repo",
"author": "Thanks for considering my application",
"date": "2024-05-12"
}
]
}

Code

Details

Download

```
}
]
}
```

Response headers

content-length: 337  
content-type: application/json  
date: Sun, 12 May 2024 01:50:33 GMT  
server: uvicorn

Responses

Code	Description	Links
200	Successful Response	No links

Media type

application/json

Controls Accept header.

Example Value Schema

"string"

GET

/blog/{\_id}

Getblog

Parameters

Try it out

Name	Description
<div><div><div><div><div>_id</div><div>* required</div></div><div>string</div><div>(path)</div></div></div><div>66401fcb71c3532a53f7e186</div></div>	

Responses

Curl

curl -X 'GET' \  
'http://127.0.0.1:8000/blog/66401fcb71c3532a53f7e186' \  
-H 'accept: application/json'

Request URL

http://127.0.0.1:8000/blog/66401fcb71c3532a53f7e186

Server response

Code

Details

200

Response body

```
{
  "status": "ok",
  "data": {
    "_id": "66401fcb71c3532a53f7e186",
    "title": "9ai",
    "sub_title": "application by yash shah",
    "content": "Hi i am a sw dev",
    "author": "Yash Shah",
    "date": "2024-05-12"
  }
}
```

Download

Response headers

```
content-length: 180
content-type: application/json
date: Sun,12 May 2024 01:48:34 GMT
server: uvicorn
```

Responses		
Code	Description	Links
200	<div>Successful Response</div> <div>Media type<div>application/json</div>Controls Accept header.</div> <div>Example Value Schema<div>"string"</div></div>	No links
422	<div>Validation Error</div> <div>Media type<div>application/json</div></div> <div>Example Value Schema<div><pre>{   "detail": [     {       "loc": [         "string",         0       ],       "msg": "string",       "type": "string"     }   ] }</pre></div></div>	No links

PATCH    /update/{\_id}    Updateblog    ^

Parameters

Try it outReset

Name	Description
<b>_id</b> <span>★ required</span> string (path)	<div>66401fcb71c3532a53f7e186</div>

Request body required

application/json

Example Value    Schema

```
{
  "title": "string",
  "sub_title": "string",
  "content": "string",
  "author": "itsreallyyash",
  "tags": [
    "string"
  ]
}
```

Responses

Curl

```
curl -X 'PATCH' \
  'http://127.0.0.1:8000/update/66401fcb71c3532a53f7e186' \
  -H 'accept: application/json' \
  -H 'Content-Type: application/json' \
  -d '{
    "title": "string",
    "sub_title": "string",
    "content": "string",
    "author": "itsreallyyash",
    "tags": [
      "string"
    ]
  }'
```

Request URL

http://127.0.0.1:8000/update/66401fcb71c3532a53f7e186

Server response



Code

Details

200

Response body

```
{
  "status": "ok",
  "message": "blog updated successfully"
}
```

Download

Response headers

```
content-length: 53
content-type: application/json
date: Sun, 12 May 2024 01:49:26 GMT
server: uvicorn
```

Responses		
Code	Description	Links
200	<div>Successful Response</div> <div>Media type<div>application/json</div>Controls Accept header.</div> <div>Example Value Schema</div> <div>"string"</div>	No links
422	<div>Validation Error</div> <div>Media type<div>application/json</div></div> <div>Example Value Schema</div> <div><pre>{   "detail": [     {       "loc": [         "string",         0       ],       "msg": "string",       "type": "string"     }   ] }</pre></div>	No links

DELETE /delete/{\_id} Deleteblog



Parameters

Cancel

NameDescription

**\_id** ★ required  
string  
(path)

66401fcb71c3532a53f7e186

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
  'http://127.0.0.1:8000/delete/66401fcb71c3532a53f7e186' \
  -H 'accept: application/json'
```

Request URL

http://127.0.0.1:8000/delete/66401fcb71c3532a53f7e186

Server response

CodeDetails

200

Response body

```
{
  "status": "ok",
  "message": "Blog deleted succesfully"
}
```

Download

Response headers

```
content-length: 52
content-type: application/json
date: Sun, 12 May 2024 01:50:50 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	No links
Media type		
application/json		
Controls Accept header.		
Example Value Schema		
"string"		

Code	Description	Links
422	<div>Validation Error</div> <div>Media type</div> <div>application/json</div> <div>Example Value   Schema</div> <div><pre>{  "detail": [    {      "loc": [        "string",        0      ],      "msg": "string",      "type": "string"    }  ]}</pre></div>	No links

Schemas ^

BlogModel > Expand all object

HTTPValidationError > Expand all object

UpdateBlogModel > Expand all object

ValidationError > Expand all object