Note-Taking API Documentation

Base URL

http://localhost:3000 (replace with your actual server URL)

Authentication

Basic Authentication is required for all endpoints. Use the following credentials:

- Username: admin

- Password: Password123

Endpoints

1. Create Note

- **URL: /notes**

- **Method: POST**

- **Request Body Format:**

json

```
{

        "title": "string",

        "content": "string"

}
```

- **Response Format:**

json

```
{

    "_id": "string",

    "title": "string",

    "content": "string",

    "createdAt": "timestamp",

    "updatedAt": "timestamp"

}
```

- **Status Codes:**

    - **201 Created**: Note successfully created.

    - **400 Bad Request**: Missing or invalid parameters in the request.

    - **401 Unauthorized**: Authentication failed.

2. Retrieve All Notes

- **URL: /notes**
- **Method: GET**
- **Response Format:**

json

```
[
    {
        "_id": "string",
        "title": "string",
        "content": "string",
        "createdAt": "timestamp",
        "updatedAt": "timestamp"
    }
]
```

- **Status Codes:**
  - **200 OK**: Notes successfully retrieved.
  - **401 Unauthorized**: Authentication failed.

3. Retrieve Single Note

- **URL: /notes/:id**
- **Method: GET**
- **Response Format:**

json

```
{
    "_id": "string",
    "title": "string",
    "content": "string",
    "createdAt": "timestamp",
    "updatedAt": "timestamp"
}
```

- **Status Codes:**
  - **200 OK**: Note successfully retrieved.
  - **404 Not Found**: Note with the specified ID not found.
  - **401 Unauthorized**: Authentication failed.

4. Update Note

- **URL: /notes/:id**
- **Method: PUT**
- **Request Body Format:**

json

{

    "title": "string",

    "content": "string"

}

- **Response Format:**

json

{

    "_id": "string",

    "title": "string",

    "content": "string",

    "createdAt": "timestamp",

    "updatedAt": "timestamp"

}

- **Status Codes:**
  - **200 OK**: Note successfully updated.
  - **400 Bad Request**: Missing or invalid parameters in the request.
  - **404 Not Found**: Note with the specified ID not found.
  - **401 Unauthorized**: Authentication failed.

5. Delete Note

- **URL: /notes/:id**
- **Method: DELETE**
- **Status Codes:**

- **204 No Content**: Note successfully deleted.

- **404 Not Found**: Note with the specified ID not found.

- **401 Unauthorized**: Authentication failed.

Error Handling

- **400 Bad Request**: Missing or invalid parameters in the request.

- **401 Unauthorized**: Authentication failed.

- **404 Not Found**: Resource not found.

- **500 Internal Server Error**: Internal server error.

Testing

Basic tests have been implemented to ensure API functionality using a testing framework Jest (**npm test**). Ensure your server is running and MongoDB connection is established before running tests.