Task Management API

API documentation for the Task Management System
Version: 1.0.0

1. Overview

Base URL: http://localhost:3000/api
This API allows you to manage tasks, comments, files, and users. All requests must be made over HTTPS in production.

2. Authentication

This API uses Bearer Token authentication (JWT).
To authenticate, include the following header in your requests:

```
Authorization: Bearer
```

3. Rate Limits & Usage Policies

To ensure service stability, rate limiting is enforced:
- **100 requests per 15 minutes** per IP address.
Exceeding this limit will result in a 429 Too Many Requests response.

4. Error Handling

The API uses standard HTTP status codes to indicate the success or failure of an API request.

Code	Description	Possible Cause
200	OK	Request succeeded.
201	Created	Resource created successfully.
400	Bad Request	Invalid input parameters or validation failure.
401	Unauthorized	Missing or invalid authentication token.
403	Forbidden	User does not have permission to access the resource.
404	Not Found	The requested resource does not exist.
429	Too Many Requests	Rate limit exceeded.
500	Internal Server Error	An error occurred on the server side.

5. Endpoints & Methods

Endpoint: /auth/register

POST /auth/register

Summary: Register a new user

Request Body:

Field	Type	Required	Description
email	string	True	-
password	string	True	-
name	string	True	-

Example Request (cURL):

```
curl -X POST "http://localhost:3000/api/auth/register" \n -H "Authorization: Bearer "
\n -H "Content-Type: application/json" \n -d '{...}'
```

Endpoint: /auth/login

POST /auth/login

Summary: Login user

Request Body:

Field	Type	Required	Description
email	string	True	-
password	string	True	-

Example Request (cURL):

```
curl -X POST "http://localhost:3000/api/auth/login" \n -H "Authorization: Bearer " \n
-H "Content-Type: application/json" \n -d '{...}'
```

Endpoint: /tasks

GET /tasks

Summary: Get all tasks

Parameters:

Name	In	Type	Required	Description

page	query	integer	False	-
limit	query	integer	False	-
status	query	string	False	-
priority	query	string	False	-

Example Request (cURL):

```
curl -X GET "http://localhost:3000/api/tasks" \n -H "Authorization: Bearer " \n -H "Content-Type: application/json"
```

POST /tasks

Summary: Create a new task

Request Body:

Field	Type	Required	Description
title	string	True	-
description	string	False	-
status	string	False	-
priority	string	False	-
dueDate	string	False	-
tags	array[string]	False	-
assignedToId	string	False	-

Example Request (cURL):

```
curl -X POST "http://localhost:3000/api/tasks" \n -H "Authorization: Bearer " \n -H "Content-Type: application/json" \n -d '{...}'
```

Endpoint: /tasks/bulk

POST /tasks/bulk

Summary: Bulk create tasks

Request Body:

Example Request (cURL):

```
curl -X POST "http://localhost:3000/api/tasks/bulk" \n -H "Authorization: Bearer " \n -H "Content-Type: application/json" \n -d '{...}'
```

Endpoint: /tasks/{id}

GET /tasks/{id}

Summary: Get a specific task

Parameters:

Name	In	Type	Required	Description
id	path	string	True	-

Example Request (cURL):

```
curl -X GET "http://localhost:3000/api/tasks/{id}" \n -H "Authorization: Bearer " \n -H
"Content-Type: application/json"
```

PUT /tasks/{id}

Summary: Update a task

Parameters:

Name	In	Type	Required	Description
id	path	string	True	-

Request Body:

Field	Type	Required	Description
title	string	False	-
description	string	False	-
status	string	False	-
priority	string	False	-
dueDate	string	False	-

Example Request (cURL):

```
curl -X PUT "http://localhost:3000/api/tasks/{id}" \n -H "Authorization: Bearer " \n -H
"Content-Type: application/json" \n -d '{...}'
```

DELETE /tasks/{id}

Summary: Delete a task

Parameters:

Name	In	Type	Required	Description
id	path	string	True	-

Example Request (cURL):

```
curl -X DELETE "http://localhost:3000/api/tasks/{id}" \n -H "Authorization: Bearer " \n
-H "Content-Type: application/json"
```

Endpoint: /comments

POST /comments

Summary: Create a comment

Request Body:

Field	Type	Required	Description
content	string	True	-
taskId	string	True	-

Example Request (cURL):

```
curl -X POST "http://localhost:3000/api/comments" \n -H "Authorization: Bearer " \n -H
"Content-Type: application/json" \n -d '{...}'
```

Endpoint: /comments/task/{taskId}

GET /comments/task/{taskId}

Summary: Get comments for a task

Parameters:

Name	In	Type	Required	Description
taskId	path	string	True	-

Example Request (cURL):

```
curl -X GET "http://localhost:3000/api/comments/task/{taskId}" \n -H "Authorization:
Bearer " \n -H "Content-Type: application/json"
```

Endpoint: /comments/{id}

PUT /comments/{id}

Summary: Update a comment

Parameters:

Name	In	Type	Required	Description
id	path	string	True	-

Request Body:

Field	Type	Required	Description
content	string	True	-

Example Request (cURL):

```
curl -X PUT "http://localhost:3000/api/comments/{id}" \n -H "Authorization: Bearer " \n
-H "Content-Type: application/json" \n -d '{...}'
```

DELETE /comments/{id}

Summary: Delete a comment

Parameters:

Name	In	Type	Required	Description
id	path	string	True	-

Example Request (cURL):

```
curl -X DELETE "http://localhost:3000/api/comments/{id}" \n -H "Authorization: Bearer "
\n -H "Content-Type: application/json"
```

Endpoint: /files/upload

POST /files/upload

Summary: Upload files

Request Body:

Field	Type	Required	Description
taskId	string	False	-
files	array[string]	False	-

Example Request (cURL):

```
curl -X POST "http://localhost:3000/api/files/upload" \n -H "Authorization: Bearer " \n
-H "Content-Type: application/json" \n -d '{...}'
```

Endpoint: /files/{id}

DELETE /files/{id}

Summary: Delete a file

Parameters:

Name	In	Type	Required	Description
id	path	string	True	-

Example Request (cURL):

```
curl -X DELETE "http://localhost:3000/api/files/{id}" \n -H "Authorization: Bearer " \n -H "Content-Type: application/json"
```

Endpoint: /files/{id}/download

GET /files/{id}/download

Summary: Download a file

Parameters:

Name	In	Type	Required	Description
id	path	string	True	-

Example Request (cURL):

```
curl -X GET "http://localhost:3000/api/files/{id}/download" \n -H "Authorization: Bearer " \n -H "Content-Type: application/json"
```

Endpoint: /analytics/stats

GET /analytics/stats

Summary: Get task statistics

Example Request (cURL):

```
curl -X GET "http://localhost:3000/api/analytics/stats" \n -H "Authorization: Bearer " \n -H "Content-Type: application/json"
```

Endpoint: /analytics/trends

GET /analytics/trends

Summary: Get task trends

Example Request (cURL):

```
curl -X GET "http://localhost:3000/api/analytics/trends" \n -H "Authorization: Bearer " \n -H "Content-Type: application/json"
```

6. Changelog

Date	Version	Description
2026-02-12	1.0.0	Initial release of the Task Management API.