

# ■ Task Management API – Reference Documentation

**Base URL:** http://localhost:8080/api/tasks

**Content Type:** application/json

## Endpoints Overview

Method	Endpoint	Description
POST	/api/tasks	Create a new task
GET	/api/tasks	Get all tasks (optional filter by status)
GET	/api/tasks/{id}	Get a single task by ID
PUT	/api/tasks/{id}	Update an existing task
DELETE	/api/tasks/{id}	Delete a task

## POST /api/tasks – Create Task

Creates a new task.

**Example Request Body:**

```
{
  "title": "Finish Assignment",
  "description": "Build Spring Boot API",
  "status": "PENDING",
  "priority": "HIGH",
  "dueDate": "2025-08-20"
}
```

**Example Response:**

```
{
  "id": 1,
  "title": "Finish Assignment",
  "description": "Build Spring Boot API",
  "status": "PENDING",
  "priority": "HIGH",
  "dueDate": "2025-08-20",
  "createdAt": "2025-08-14T10:00:00Z",
  "updatedAt": "2025-08-14T10:00:00Z"
}
```

## GET /api/tasks – Get All Tasks

Fetches all tasks. Optional query parameter: status

**Example Response:**

```
[
  {
    "id": 1,
    "title": "Finish Assignment",
    "description": "Build Spring Boot API",
    "status": "PENDING",
    "priority": "HIGH",
    "dueDate": "2025-08-20",
    "createdAt": "2025-08-14T10:00:00Z",
    "updatedAt": "2025-08-14T10:00:00Z"
  }
]
```

## GET /api/tasks/{id} – Get Task by ID

Fetch a single task by its ID.

**Example Response:**

```
{
  "id": 1,
  "title": "Finish Assignment",
  "description": "Build Spring Boot API",
  "status": "PENDING",
  "priority": "HIGH",
  "dueDate": "2025-08-20",
  "createdAt": "2025-08-14T10:00:00Z",
  "updatedAt": "2025-08-14T10:00:00Z"
}
```

## PUT /api/tasks/{id} – Update Task

Updates an existing task.

### Example Request Body:

```
{
  "title": "Updated Task",
  "description": "New details here",
  "status": "IN_PROGRESS",
  "priority": "MEDIUM",
  "dueDate": "2025-08-25"
}
```

### Example Response:

```
{
  "id": 1,
  "title": "Updated Task",
  "description": "New details here",
  "status": "IN_PROGRESS",
  "priority": "MEDIUM",
  "dueDate": "2025-08-25",
  "createdAt": "2025-08-14T10:00:00Z",
  "updatedAt": "2025-08-14T10:15:00Z"
}
```

## DELETE /api/tasks/{id} – Delete Task

Deletes a task by ID.

### Example Response:

(No Content) Status 204