**API Documentation**

**Base URL**

http://localhost:3000/api

**Authentication**

All task-related endpoints require the userId to be included in the header of the request.

userId: <user\_id>

**Endpoints**

**1. User Endpoints**

**1.1 Create User**

* **Endpoint:** /users
* **Method**: POST
* **Description**: Creates a new user.
* **Request Body**:

{

    "name" : "Anoop Kapoor",

    "email" : "anoop@gmail.com"

}

* **Response:**

{

    "name": "Anoop Kapoor",

    "email": "anoop@gmail.com",

    "tasks": [],

    "\_id": "6666853ba98f3f75623ddb17",

    "\_\_v": 0

}

**2. Task Endpoints**

**2.1 List All Tasks**

* **Endpoint**: /tasks
* **Method**: GET
* **Description**: Retrieves all tasks and their subtasks for the authenticated user.
* **Headers**:

userId: <userId>

* **Response**:

[

    {

        "subject": "Task X",

        "deadline": "2024-06-17T18:30:00.000Z",

        "status": "Completed",

        "isDeleted": **false**,

        "subtasks": [],

        "\_id": "66668606a98f3f75623ddb24"

    }

]

**2.2 Create Task**

* **Endpoint**: /tasks
* **Method**: POST
* **Description**: Creates a new task for the authenticated user.
* **Headers**:

userId: <userId>

* **Request Body:**

{

    "subject" : "Task Y",

    "deadline" : "06-28-2024",

    "status" : "Completed",

    "isDeleted" : "false"

}

* **Response**:

{

    "newTask": {

        "subject": "Task Y",

        "deadline": "06-28-2024",

        "status": "Completed",

        "isDeleted": "false",

        "subtasks": []

    }

}

**2.3 Update Task**

* **Endpoint**: /tasks/:taskId
* **Method**: PUT
* **Description**: Updates a task identified by taskId.
* **Headers**:

userId: <userId>

* **Request Body:**

{

    "subject" : "Task Z",

    "deadline" : "10-09-2024",

    "status" : "Pending"

}

* **Response**:

{

    "data": {

        "subject": "Task Z",

        "deadline": "2024-10-08T18:30:00.000Z",

        "status": "Pending",

        "isDeleted": **false**,

        "subtasks": [],

        "\_id": "6666899ca98f3f75623ddb39"

    }

}

**2.4 Delete Task**

* **Endpoint**: /tasks/:taskId
* **Method**: DELETE
* **Description**: Marks a task identified by taskId as deleted.
* **Headers**:

userId: <userId>

**3. Subtask Endpoints**

**3.1 List Subtasks for a Task**

* **Endpoint**: /tasks/:taskId/subtasks
* **Method**: GET
* **Description**: Retrieves all non-deleted subtasks for a specific task identified by taskId.
* **Headers**:

userId: <userId>

* **Response**:

[

    {

        "subject": "subtask 1",

        "deadline": "2024-06-18T18:30:00.000Z",

        "status": "Completed",

        "isDeleted": **false**,

        "\_id": "66668c06a98f3f75623ddb65"

    },

    {

        "subject": "subtask 2",

        "deadline": "2024-06-18T18:30:00.000Z",

        "status": "Pending",

        "isDeleted": **false**,

        "\_id": "66668c06a98f3f75623ddb66"

    }

]

**3.2 Update Subtasks for a Task**

* **Endpoint**: /tasks/:taskId/subtasks
* **Method**: PUT
* **Description**: Updates the list of subtasks for a specific task identified by taskId.
* **Headers**:

userId: <userId>

* **Request Body:**

{

    "subtask" : [

        {

            "subject" : "subtask 1",

            "deadline" : "06-19-2024",

            "status" : "Completed"

        },

        {

            "subject" : "subtask 2",

            "deadline" : "06-19-2024",

            "status" : "Pending"

        },

        {

            "subject" : "subtask 3",

            "deadline" : "06-19-2024",

            "status" : "done",

            "isDeleted" : **true**

        }

    ]

}

* **Response**:

[

    {

        "subject": "subtask 1",

        "deadline": "2024-06-18T18:30:00.000Z",

        "status": "Completed",

        "isDeleted": **false**,

        "\_id": "66668c06a98f3f75623ddb65"

    },

    {

        "subject": "subtask 2",

        "deadline": "2024-06-18T18:30:00.000Z",

        "status": "Pending",

        "isDeleted": **false**,

        "\_id": "66668c06a98f3f75623ddb66"

    }

]