TASK MANAGEMENT SYSTEM

REST-API DOCUMENTATION

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About Project

- ► This project is implementation of REST APIs for the Task Management System.
- ▶ It includes creation, deletion, update of task.
- This project is coded in python language using Flask framework.
- ► This project provides the Create, Rename, Update and Delete operations of tasks.
- ► Each task consists of fields like: id, Title, Description, Due date, Created date, Updated date.
- ► This project has basic Authentication(username : admin, password : 1234) to access these APIs.
- ▶ In this project, I used json file("data.json") to store the task data.

Methods

- ▶ **GET** /tasks : to get all the tasks
- ▶ **GET** /tasks/{id} : to get the particular task
- ▶ **POST** /tasks : to create a new task
- PUT /tasks/{id}: to update the fields of an existing task
- ▶ **PATCH** /tasks/{id}/complete: to mark a task with that id as complete.
- ▶ **DELETE** /tasks/{id} : to delete an existing task. ■

GET /tasks

- This endpoint is used to get all the Tasks.
- ▶ It will return json array of Tasks with the fields id, status, title, description, due_date, created_date, updated _date
- ▶ **Filtering**: we can filter the data using fields like status, due_date, title.
- Ex: API to fetch only completed tasks.
 - ▶ GET /tasks?status=completed

GET /tasks/{id}

- This endpoint is used to get all fields of that particular id
- ▶ It will return json array of Task with the fields id, status, title, description, due_date, created_date, updated_date

POST /tasks

- ► This endpoint is used to create new Task.
- It requires all the field like id, status, title, description, due_date.
- created_at will be updated by the current datetime.
- ► Conditions:
 - ▶ **Id** must be unique.
 - due_date must be in future.
 - status must be in "pending" or "in_progress" or "completed".

PUT /tasks{id}

- ▶ This endpoint is used to update the existing task.
- ▶ It requires all the fields similar to above method.
- ▶ If the task is not exists, then it will create a new task.
- updated_at will be updated by the current datetime.

PATCH /tasks/{id}/complete

- ► This endpoint is used to mark a Task as completed
- ▶ It requires only id of that task.

DELETE /tasks{id}

- This endpoint is used to delete the existing task.
- It requires only id of that task.
- ► It will returns success on successful removal and returns error message if that task is not available.

THANK YOU

for your time...