**Details**

Web API Name: Task Management System (TMS)

Database Name: TaskDatabase

Swagger page: <https://localhost:5001/swagger/index.html>

Framework: .NET Core 3.1

**Overview**

This is a microservice for a simple Task Management System. TMS contains information about tasks. A task can contain one or more subtasks. TMS connects to the TaskDatabase included in the zip file. TMS can retrieve a report with list of all tasks (filtered by StartDate and FinishDate), a single task (filtered by ID), add a new task, update an existing task and delete a task. TMS has a swagger implementation.

On updating a task, the state of a task is set to InProgress, Completed or Planned depending on the State of a Task’s Subtask. If a task has subtasks, then its state is calculated by the following rules:

a. Completed, if all subtasks have state Completed

b. inProgress, if there is at least one subtask with state inProgress

c. Planned in all other cases

The database contains two tables, with the Task entity having a one to many relationship with the SubTask entity.

Please ask if there are any issues running the application.