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**ROLL NO:24**

**BATCH : B2**

**COURSE: AWT PRACTICAL**

**Assginment No. 7**

**Problem Statment :**

**Industry Suggested Assignment**

**The task management system aims to provide users, or organizations to complete tasks efficiently by organizing and prioritizing related tasks. The application can be built using NestJS, a Node.js framework, as the backend technology, a relational database (MySql/Postgres) for storing tasks and related data.**

**CODE:**

**Task.js**

export class Task {

    id: number;

    title: string;

    description: string;

    dueDate: Date;

    priority: string;

  }

**Service.js**

import { Injectable } from '@nestjs/common';

import { Task } from './task.model';

@Injectable()

export class TasksService {

  private tasks: Task[] = [];

  getAllTasks(): Task[] {

    return this.tasks;

  }

  getTaskById(id: number): Task {

    return this.tasks.find(task => task.id === id);

  }

  createTask(task: Task): Task {

    // Logic to save task to the database

    this.tasks.push(task);

    return task;

  }

  // Implement updateTask, deleteTask, etc.

}

**Controller.js**

import { Controller, Get, Post, Body } from '@nestjs/common';

import { Task } from './task.model';

import { TasksService } from './tasks.service';

@Controller('tasks')

export class TasksController {

  constructor(private readonly tasksService: TasksService) {}

  @Get()

  getAllTasks(): Task[] {

    return this.tasksService.getAllTasks();

  }

  @Post()

  createTask(@Body() task: Task): Task {

    return this.tasksService.createTask(task);

  }

  // Implement other endpoints (update, delete, get by id, etc.)

}

**Entity.js**

import { Entity, Column, PrimaryGeneratedColumn } from 'typeorm';

@Entity()

export class Task {

  @PrimaryGeneratedColumn()

  id: number;

  @Column()

  title: string;

  @Column()

  description: string;

  @Column({ type: 'timestamp', default: () => 'CURRENT\_TIMESTAMP' })

  dueDate: Date;

  @Column()

  priority: string;

}

**Index.js**

<!doctype html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

    <link rel="icon" type="image/svg+xml" href="/vite.svg" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Vite + React</title>

    <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css' rel='stylesheet'>

    <link rel="stylesheet" href="https://unicons.iconscout.com/release/v4.0.8/css/line.css">

  </head>

  <body>

    <div id="root"></div>

    <script type="module" src="/src/main.jsx"></script>

  </body>

</html>

**Module.js**

import { Entity, Column, PrimaryGeneratedColumn } from 'typeorm';

@Entity()

export class Task {

  @PrimaryGeneratedColumn()

  id: number;

  @Column()

  title: string;

  @Column()

  description: string;

  @Column({ type: 'timestamp', default: () => 'CURRENT\_TIMESTAMP' })

  dueDate: Date;

  @Column()

  priority: string;

}