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DEPARTMENT OF COMPUTER STUDIES
ITEC 116 – IT ELECTIVE 4 (SYSTEM INTEGRATION AND ARCHITECTURE 2)

ACTIVITY NO. 1 TO-DO LIST API + UI

Title of Activity

ConVINCE Task Manager

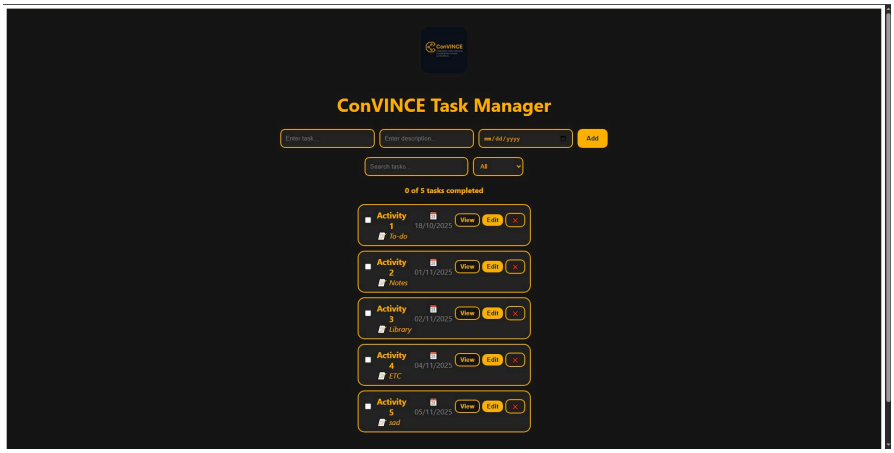
Short Description(What the app does)

The **ConVINCE Task Manager** is a full-stack To-Do List web application that helps users organize and track their daily tasks. It allows users to **add**, **view**, **edit**, **delete**, **search**, and **filter tasks** with deadlines and completion tracking. The **frontend** is developed using **React.js (Vite)**, while the **backend** is powered by **NestJS**, providing a structured **REST API** for **task management** and integrated **Swagger documentation** for **API visualization.**

Screenshot(s) of working system (UI and API example)

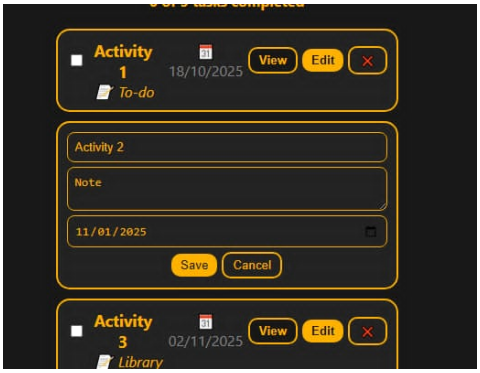
User Interface (Frontend):

- **Task List (Main UI)**

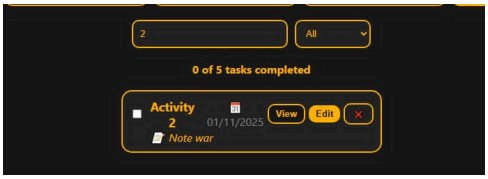


- **Task View (Modal Popup)**

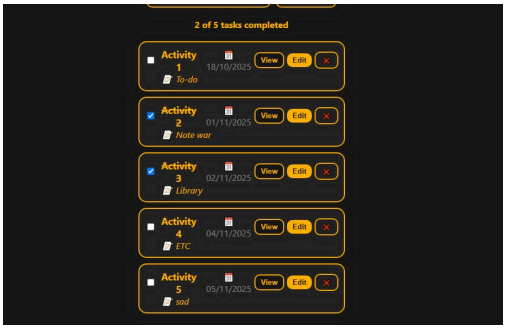
- **Task Edit Form**



- **Search and Filter Section**

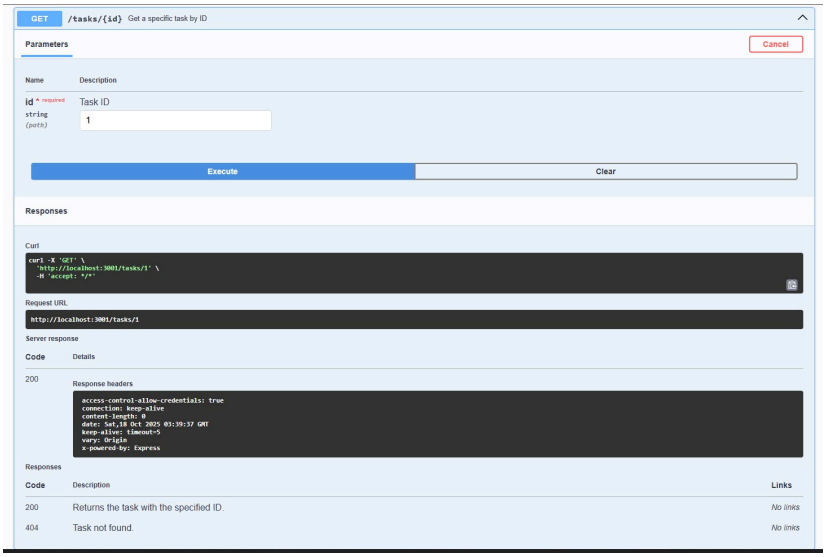


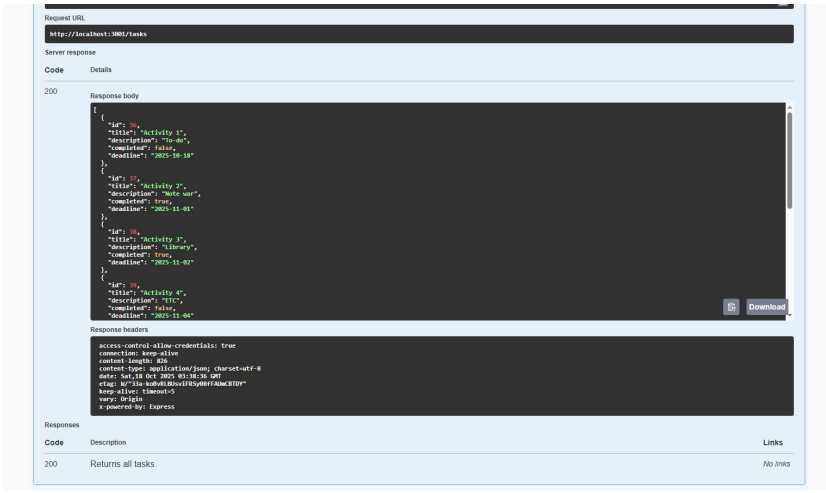
- **Progress Tracker**



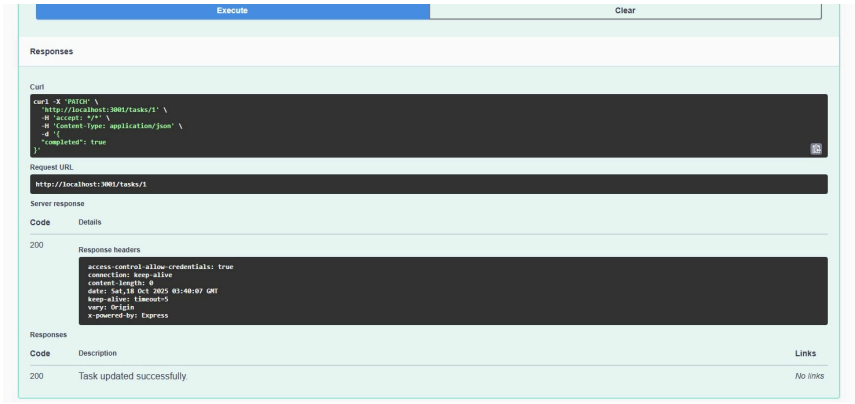
API Backend:

- **API Endpoint (GET /api/tasks)**

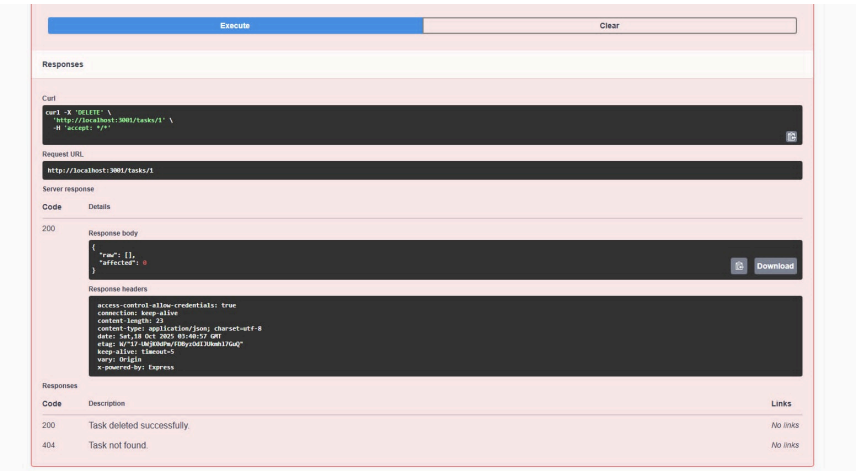




- **PATCH /tasks/{id}**



- **DELETE /tasks/{id}**



Instruction on how to run the project

Requirements

- Node.js
- npm (comes with Node.js)
- Web Browser (Google Chrome, Edge, Firefox, etc.)
- Visual Studio Code
- NestJS
- React.js (Vite)
- TypeORM
- Swagger UI
- Git / GitHub

Steps to run the Project

1. Clone or download the project from GitHub.
2. Open the project folder in Visual Studio Code. (VScode)
3. Open a terminal and go to the backend folder:

```
cd backend

npm install

npm run start:dev
```

→ **Runs the backend (NestJS) at http://localhost:3000/**

→ **Swagger UI: http://localhost:3000/api**

4. Open another terminal and go to the frontend folder:

   cd frontend

   npm install

   npm run dev

→ **Runs the frontend (React + Vite) at http://localhost:5173/**

5. Open the browser and go to the frontend URL to use the system**.**