



Algo Root

Overview

As a Full-Stack Developer Intern, your objective is to design and implement a **Task Management**, a web application that enables users to manage tasks. This task is expected to be completed within 2 days, demonstrating your ability to develop both frontend and backend components efficiently while following best practices.

Key Features

1. Task Management :

- **Task Management:** Implement functionality to create, edit, delete, and mark tasks as completed.

2. Backend API Development:

- **Tech Stack:** Utilize Node.js with Express or any other backend framework of your choice.
- **API Endpoints:**
 - **GET /tasks:** Retrieve all tasks.
 - **POST /tasks:** Create a new task.
 - **PUT /tasks/:id:** Update an existing task (e.g., mark as completed or modify details).
 - **DELETE /tasks/:id:** Remove a task.
- **Error Handling:** Implement proper HTTP status codes and messages for common issues (e.g., validation failures, missing resources).

3. Data Persistence:

- **Storage Options:** Choose an appropriate data storage mechanism, such as an in-memory store, file-based JSON storage, SQLite, or another database.

Data Model Details

Below is a suggested schema for task and activity management:

- **Task Model:**
 - **id:** Unique identifier (string or number).
 - **title:** Brief description of the task.
 - **description:** (Optional) Detailed information about the task.
 - **completed:** Boolean flag indicating task status.

Implementation Guidelines

- **Frontend Development:** You have full flexibility in designing the UI using any frontend framework (React/ Next js). The focus should be on functionality, not aesthetics.
- **Code Quality:** Follow best practices for modularity, readability, and maintainability. Ensure adequate documentation within your code.
- **API Documentation:** Include a README file detailing:
 - Installation steps and setup instructions.
 - API endpoints with request/response formats.
 - Instructions for testing the API using Postman, curl, or any other tool.
 - **Screenshots** showcasing the UI.

This assignment serves as a practical demonstration of your full-stack development capabilities, problem-solving skills, and ability to implement a structured and efficient solution. Focus on delivering a functional, well-documented, and maintainable application within the given timeframe.

Important Note:

Submit the Github url and using the Google Form provided below (Make sure your live url is present in your github repo):

https://docs.google.com/forms/d/1wygUvF5IRxvS3R4XTmofuEwjAx_oYqbCUtTvQ2R5KWc/viewform?edit_requested=true