

# REPORT

## **\*\*Task Management Application\*\***

### **\*\*Objective:\*\***

Develop a basic task management application with a FastAPI backend and React frontend.

### **\*\*Backend:\*\***

- **\*\*Technologies Used:\*\*** Node.js, Express.js, PostgreSQL, Sequelize ORM
- **\*\*Endpoints:\*\***
  - `GET /api/tasks`: Retrieve all tasks.
  - `POST /api/tasks`: Create a new task.
  - `PUT /api/tasks/{task\_id}`: Update a task's status.
  - `DELETE /api/tasks/{task\_id}`: Delete a task.
- **\*\*Database Model:\*\*** `Task` with fields `id`, `title`, `description`, `status`, `created\_at`.

### **\*\*Frontend:\*\***

- **\*\*Technologies Used:\*\*** ReactJS
- **\*\*Components:\*\***
  - `TaskList`: Displays all tasks.
  - `TaskForm`: Adds a new task.
  - `TaskItem`: Shows individual task details with options to update status or delete.
- **\*\*Enhancements:\*\***
  - Error boundary for catching and displaying errors.
  - Suspense fallback with loaders for handling asynchronous operations.
  - Basic form validation and client-side sorting/filtering.

### **\*\*Repositories:\*\***

- [Backend Repository] : [https://github.com/anupam-singh88/predixionAi\\_notes\\_backend](https://github.com/anupam-singh88/predixionAi_notes_backend)
- [Frontend Repository] : [https://github.com/anupam-singh88/predixionAi\\_frontend](https://github.com/anupam-singh88/predixionAi_frontend)

### **\*\*Live Demo:\*\***

- [Backend Demo URL] : <https://predixionai-notes-backend.onrender.com/api/tasks>
- [Frontend Demo URL] : <https://predixion-ai-frontend-one.vercel.app/>

