**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>

- [Frontend Repository] : <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/>