**TODO LIST**

**Abstract :**

This project aims to develop a straightforward and efficient To-Do List application utilizing MongoDB, Express.js, React.js, and Node.js (MERN stack). The application provides users with a platform to organize their tasks effortlessly. Users can add tasks to the list, mark them as done upon completion, and also delete tasks as needed. The project leverages MongoDB, a NoSQL database, to store task data efficiently. Express.js, a minimalist web application framework for Node.js, facilitates the development of the server-side logic and APIs. React.js, a popular JavaScript library for building user interfaces, is utilized for the frontend, ensuring a responsive and intuitive user experience. Node.js, as the backend runtime environment, powers the server-side operations, handling requests and responses seamlessly. Through the integration of these technologies, the project provides a cohesive and robust solution for managing tasks, enabling users to stay organized and productive. This To-Do List project offers a user-friendly interface for adding, tracking, and managing tasks efficiently. By employing the MERN stack, it ensures scalability, flexibility, and performance, catering to the needs of users seeking a reliable task management solution.

**Key Features :**

* **User Registration/Login**  : Allow users to register for an account and securely log in to access their todo lists.
* **User-Friendly Interface:** Develop an intuitive and easy-to-navigate user interface for seamless interaction with the todo list.
* **Add Todo Item**  : Enable users to add new tasks to their todo list, specifying a title, description, and optionally priority.
* **View Todo List** : Display the user's todo list with all the added tasks, including their title, description and completion status.
* **Update Todo Item** : Provide users with the ability to update existing tasks, including modifying the title, description, or marking tasks as completed.
* **Delete Todo Item** : Allow users to delete unwanted tasks from their todo list, providing a smooth and intuitive deletion process.
* **Search Functionality** : Implement a search feature that allows users to search for specific tasks within their todo list based on keywords or criteria.
* **Filtering Options** : Offer filtering options to allow users to view tasks based on different criteria such as completion status or priority.
* **Sorting Functionality** : Enable users to sort their todo list based on various attributes such as priority, providing flexibility in task organization.
* **Interactive Task Completion:** Enhance task completion with interactive animations or effects to provide users with satisfying feedback upon marking tasks as done.
* **Export/Import** : Enable users to export their todo lists to various formats (e.g., CSV, JSON) and import lists from external sources, facilitating data transfer and backup.
* **Dark Mode:** Offer a dark mode option for users who prefer a different visual theme, providing flexibility and reducing eye strain, especially during nighttime usage.
* **Offline Access:** Provide offline access to todo lists, allowing users to view and modify tasks even without an internet connection, with changes automatically syncing once online.
* **Priority Levels:** Allow users to assign priority levels (e.g., high, medium, low) to their tasks, aiding in organizing and managing tasks based on their importance and urgency.