**TASK-TRACKER**

1. **Purpose**:
   * The Task Tracker app is designed to help users manage and track tasks effectively.
2. **Features**:
   * Task listing with details like title, description, status, assignee, priority, and start/end dates.
   * Sorting tasks by priority and start/end dates.
   * Filtering tasks based on assignee, priority, and date range.
   * Multiple filter combinations support, such as filtering tasks assigned to a specific user with a specific priority.
   * Displaying tasks in categorized columns based on their status (Pending, In Progress, Completed, Deployed, Deferred).
   * Clearing filters option.
   * Navigation back to All Tasks page.
3. **Technologies Used**:
   * React.js for the frontend user interface.
   * Material-UI for styling components.
   * JavaScript and JSX for coding logic and UI rendering.
   * React Router for client-side routing.
   * useState and useEffect hooks for managing state and performing side effects.
   * Custom utility function for filtering tasks based on criteria.
   * Responsive design using Grid layout from Material-UI.
4. **Development Process**:
   * Created components such as TaskSortFilter, AllTasks, EditTaskModal for different functionalities.
   * Implemented filtering and sorting logic using useState and useEffect hooks.
   * Utilized Material-UI components for building a responsive and visually appealing UI.
   * Integrated React Router for navigation between pages.
   * Designed task columns with categorized tasks using conditional rendering and mapping filtered tasks.
   * Handled user interactions like filter changes and clearing filters with event handlers.
   * Used utility function getFilteredTasks for filtering tasks based on criteria.
   * Styled components using inline styles and Material-UI styles.
5. **Running the App**:
   * Ensure you have Node.js and npm (Node Package Manager) installed on your system.
   * Clone the project repository or download the source code.
   * Navigate to the project directory in your terminal.
   * Run **npm install** to install project dependencies.
   * Run **npm start** to start the development server.
   * The app should open automatically in your default web browser at <http://localhost:3000/> or a similar address.
   * You can interact with the Task Tracker app by filtering tasks, sorting, and navigating between pages.