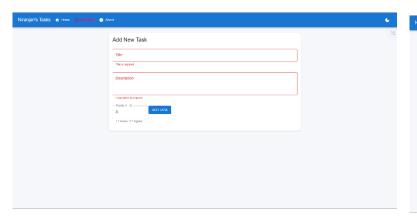
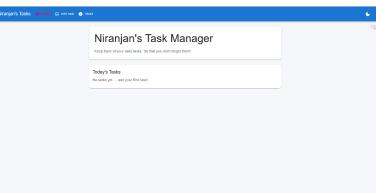
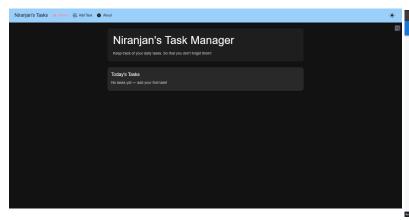
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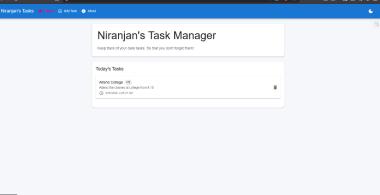
NIRANJAN C N Week2-Day4-Oct3

Add routing: Home, Add Task, About; navigation bar, Save tasks to localStorage; load on mount; polish UI; icons; theming









- Added a navbar for navigation around pages
- Added icons for each button
- Added a separate page for adding tasks
- A priority can be set for each task
- Task can be deleted and stored
- The task entered is stored locally and loaded on mount
- The ui is a bit polished with hover effects and buttons
- A toggle between dark and light theme is available
- The logic remains the same as previous day's task but the ui and the presentation has improved Questions

- 1. Describe how client-side routing works (history API or hash routing).
 - a. History API
 - i. React router uses browser history API for manipulating the url and search history
 - ii. URLs update without a page reload so that the forward and backward navigation takes place smoothly
 - b. Hash routing
 - i. Navigation occurs completely in client in hash routing
 - ii. Hash routing uses window.location.hash
- 2. What happens when you navigate: how React Router matches route and renders components.
 - a. When location changes of a particular component the react router needs a new url
 - b. It matches the url to the route specified and finds the correct path.
 - c. And after that it renders the corresponding react components
 - d. Nested routes are used to show both the parent and child components at the same time
- 3. How to pass params or query params; nested routes.
 - a. Path params- /task/:id, the param is available in the components through hooks like useParams.
 - b. Query params-/task?id=999, We can access them like useSearchParams
 - c. Nested routes are used to show both the parent and child components at the same time
- 4. What is the flow: writing to localStorage \rightarrow reading on app startup?
 - a. Writing- We use localStorage.setItem(key,value) after any state update
 - b. Reading- On app startup use localStorage.getItem(key) to read the data input
 - c. Initialize state- On startup state is obtained from local storage if existing else load defaults
- 5. How do you sync state with localStorage safely (e.g. updates, JSON parse/stringify)?
 - a. We can stringify objects/arrays before saving (JSON.stringify)
 - b. (JSON.parse) to read input and check for errors in input
 - c. Sync state on any updates using effects/hooks
- 6. What performance / size concerns with storing too much in localStorage?
 - a. Browsers usually allow a limit of 5Mb for storage
 - b. Too much data can lead to slow read and write operations
 - c. It might also lead to errors when the limit is reached
 - d. We should not store sensitive data and large data