AeroAspire -SDE Intern Training

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Week2-Day 5-Oct4

Add search/filter UI; theme toggle (light/dark) if possible; polish

Questions:

1. Explain the full data flow: user action → state → props → UI update.
   a. The user gives input and triggers the event handlers
   b. Event handlers update the states using useState
   c. When the state changes the react app re-renders
   d. The data is sent from parent to child through props
   e. This is finally rendered and updated in the UI
2. What are common anti-patterns in React you noticed or want to avoid?
   a. We should always treat strings as mutable objects
   b. If we put all states in one component the app slows down
   c. Check routing properly as it is a bit different
   d. Hooks must be called at the beginning of the a component's code
3. If this app grows big, what architectural patterns would you use (e.g. component separation, state management tool)?
   a. If this app is developed further I would Improve the UI and components
   b. Add authorization for deployment and user level usage
   c. Would add multiple pages for each option for the webpage
   d. Storing the data locally for offline access
   e. Test the webapp and check for improvements