

Feature Planning Document - React Calculator

Feature 1: History Log of Calculations

User Story: As a user, I want to see the history of my past calculations, so I can review and reuse them.

Technical Requirements:

- Add a component to display past expressions and results.
- Store history in component state (or localStorage).
- Add a clear history button.

Files Likely to Modify:

- App.js
- Calculator.js
- Possibly new History.js component

Potential Challenges:

- Managing state without cluttering logic.
- Displaying long histories neatly.

Feature 2: Keyboard Support

User Story: As a user, I want to use my keyboard for input so the calculator feels faster and more intuitive.

Technical Requirements:

- Listen to keypress events (0-9, +, -, *, /, =, etc.)
- Map keys to button actions.

Files Likely to Modify:

- App.js or the main component handling input

Potential Challenges:

- Handling edge cases like Shift + * or Enter for =.

Feature 3: Dark Mode Toggle

User Story: As a user, I want to toggle between light and dark mode for better accessibility.

Technical Requirements:

- Add toggle button.
- Apply different themes via CSS classes or inline styles.

Files Likely to Modify:

- App.js
- App.css or theme-specific CSS

Potential Challenges:

- CSS structure consistency.
- Ensuring accessibility in both themes.