

Stepper Component

Framework

React

Goal

Use the TDD cycle (Red → Green → Refactor) to build a small, self-contained component that adjusts a counter by a custom step value.

Instructions

1. **Red:** Write a failing test for the initial counter value (0) and the increment behaviour.
2. Add a button that, when clicked, increases the counter by a default value (e.g. 1).
3. Add support for passing in a step prop (e.g. `step={5}`) and test the new value.
4. Write a test for a decrement button using `fireEvent.click`.
5. **Green:** Implement only enough code to pass the current failing test.
6. **Refactor:** Clean up state management and repeated logic after tests pass.

Tech & Tools

- `useState` for managing internal counter
- React Testing Library + Jest
- `fireEvent.click`, `getByText`, `getByRole`

What to Test

- Initial state is 0
- Clicking “+” button increases by step
- Clicking “-” button decreases by step
- Prop step correctly influences behaviour