# Develop Pagination React Component

## **Description:**

Create a React component named Pagination to display a pagination UI control. The component should receive the following props:

1. onSelectPage:
   1. Type: Function
   2. Description: A callback function to be called with the clicked page number when a user selects a new page.
2. currentPage:
   1. Type: Number
   2. Description: The current page number.
3. totalPages:
   1. Type: Number
   2. Description: The total number of pages.

This task ensures the creation of a reusable Pagination component that can be easily integrated into the application to provide a user-friendly pagination UI. The component's behavior is designed to handle click events and disable navigation for invalid pages.

## Acceptance Criteria:

1. Component Creation:
   1. Create a file named Pagination.tsx within the components folder.
   2. Develop the Pagination component using functional component syntax.
2. Props Validation:
3. Validate the incoming props to ensure that they have the correct types (onSelectPage is a function, currentPage and totalPages are numbers).
4. Pagination UI:
5. Display a set of pagination buttons based on the total number of pages.
6. Highlight the button corresponding to the current page.
7. Click Event Handling:
8. Implement click event handling for pagination buttons.
9. Call the onSelectPage callback with the clicked page number.
10. Disable Navigation for Invalid Pages:
11. Disable the "Previous" button if the current page is the first page.
12. Disable the "Next" button if the current page is the last page.
13. Unit Testing:
14. Write unit tests for the Pagination component, covering scenarios such as clicking on pagination buttons and validating UI changes based on different props.

## Definition of Done:

1. The Pagination.tsx file is created within the components folder.
2. The Pagination component is developed using functional component syntax.
3. Incoming props are validated to ensure correct types.
4. Pagination UI is displayed with correct button highlighting based on the current page.
5. Click event handling is implemented to call the onSelectPage callback with the clicked page number.
6. Navigation buttons are disabled appropriately for the first and last pages.
7. Unit tests for the Pagination component pass successfully, covering various scenarios.