

# Accordion Component Documentation

## Overview :

The Accordion Component is a React-based UI element that displays a list of FAQs. Users can expand or collapse each item by clicking on it. Only one item can be open at a time.

## Features :

- Fetches FAQ data from a mock JSON file (faqs.json).
- Displays FAQ questions in a list.
- Clicking on a question expands its answer.
- Clicking on another question closes the previous one and opens the new one.
- If the open question is clicked again, it collapses.
- Uses useState to track the currently open FAQ ID.
- Uses conditional rendering ( ? :) to show/hide the answer.
- Ensures only one question can be open at a time.
- Styles with basic CSS for a clean UI.

## Requirements :

- React
- JavaScript
- CSS
- JSON

## Functionality Breakdown :

### FAQ Data Retrieval -

- The component retrieves FAQ data from a JSON file (`faqs.json`) or an API endpoint.
- The data is stored in a state variable (`faqs`) using the `useState` hook.

### FAQ List Rendering -

- The component renders a list of FAQs using the `map` function.

- Each FAQ item is rendered as a separate component (``) containing the question and answer.

### **Question-Answer Toggle -**

- When a user clicks on a question, the corresponding answer is toggled (expanded or collapsed).
- The toggle functionality is implemented using a state variable (``openId``) that tracks the currently open FAQ ID.

### **Single-Open FAQ Behavior -**

- Only one FAQ item can be open at a time.
- When a user clicks on a new question, the previously open answer is closed, and the new answer is opened.

### **Answer Display -**

- When an FAQ item is open, the corresponding answer is displayed below the question. The answer is hidden when the FAQ item is closed.

### **Data Fetching with useEffect -**

- The component uses the ``useEffect`` hook to fetch FAQ data from the JSON file or API endpoint when the component mounts.
- The ``useEffect`` hook is used to handle side effects, such as data fetching, in functional components.

### **Dependencies :**

**react:** uses the React library for building the component.

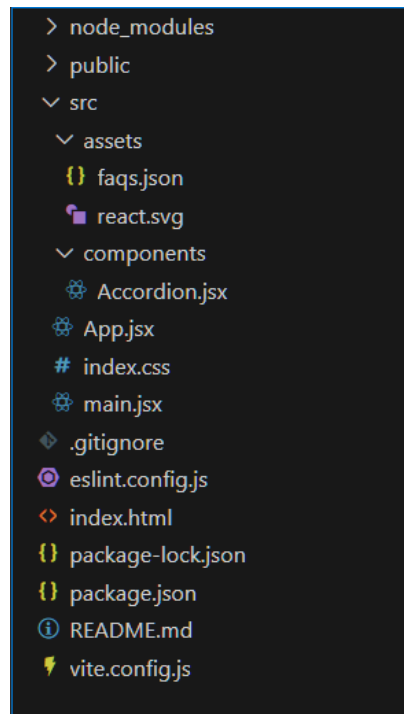
**useState:** uses the ``useState`` hook for managing state variables.

**useEffect:** uses the ``useEffect`` hook for handling side effects, such as data fetching.

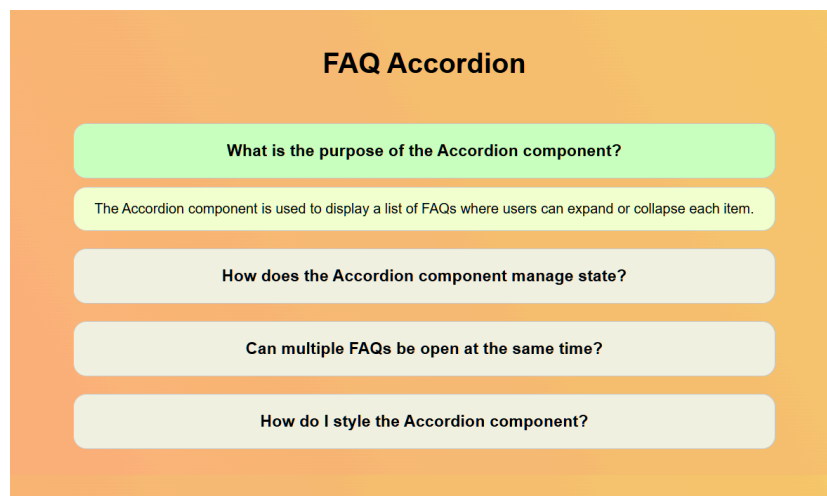
### **Event Handlers :**

**handleClick:** handles the click event on a question, toggling the corresponding answer.

## Project Structure :



## Output :



## Conclusion :

The Accordion Component is a dynamic and interactive UI element that displays a list of FAQs. The component is designed to provide a clear and consistent user experience, with features such as toggle functionality, single-open FAQ behavior, and accessibility. Throughout this documentation, we have outlined the component's functionality, expected behavior, and technical requirements. We have also provided code snippets and examples to demonstrate the component's implementation.