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React native pagination example

React-native-snap-carousel pagination example. React native flatlist pagination example. React native swiper render pagination example.

In today's world, most web applications can not show all the data they need to show their users once and there are good reasons not to show all the data in the couple once. Of important reasons are: more easy applications NavigationUser ExperienceWeb that needs to show some data in the form of a list generally implementing a resource known as a pagination that allows them to show the data in a pages. This sequence Allows applications to provide better user experience and allows users to navigate through data easily. Pagment also helps applications to avoid requesting all the server data at the same time that could have a lot of time - depending on the amount of requested pagination data are mainly carried out in coordination With the server-side code that allows client applications to request data in the form of groups. For example, a client can ask the server to get a list of the first 20 products on the front-end, the applications need to indicate to the user that the data is pagged and can be viewed in a seq. this tutorial, you will not write any server-side code, but we will know how we can implement a front-end application and how we can show the data to the user in a Sequence of pages, where the user can navigate to later. To implement the page, let's create a reusable component that will show the data of a pagged form. The following image shows the page that we will implement without using any third-party library for pagination .We will create a simple application that react will show the list of posts for the User.POSTs will be obtained from the JsonPlaceholder API using the following URL: <https://jsonplaceholder.typicode.com/Posts> Although API JsonPlaceholder does not allow us to request data in a pagged way, we can fetch all the messages and then instead of showing all messages to the user at once, we will show 10 places in one Page. You can configure a reaction project by using Create-Application-Application or use any online editor such as stackblitz or codesandbox. Lets write the code in the App component, which will request Messages from the JsonPlaceholder API and save it to your State.

```
import React, {useState, useeffect} 'react';
const url = 'Standard function of exportation app () {const (messages, setposts) = usestate ({});
const (Error, SETERROR) = USESTATE ('');
Useeffect (() => {FETCH (URL) .then (response) => {if (Response.ok) return response.json ();
Throw New Error ('Something wrong when ordering messages')}});
Then ((messages) => setPosts (messages) .catch ((error) => SETERROR (error.message));
}, []);
IF (error) return {error} ;
Return ; }
Naps Save (two things in the state: PostSan error to show if requesting fails)
Messages that we use the useeffect hook for API request messages. The request is done using the FETCH API. Once the answer is received, we will check if the answer response is a successful response with a status code in the range of 200 to 299. If the success success is received, response.json () is called and The result (the promise) is returned. If messages are successfully sought, they are saved in state. If do not receive a successful answer as a result of our request, we have thused an error indicating that messages that seek fault. This error is caught by block .catch () and is saved in state. Now, let's create a post component, which will present a single post. function post (props) {const {id, title, body} = props.
Data: return ( {ID: {title} {body} ); }
This component will receive an object as a support called data and we will defructure 3 properties of that Data: The Post Idthe Paps Titlete ContentAfter Destructuration The required properties, let's make them as part of our JSX Code. for Cause of completeness, here is the CSS I used for the Component style P6s: .post {display: Flex; Flex-sense: column; column; Center; align-articles: center; Shadow box: 0 3px rgba (0, 0, 0, 0.3); max-width: 400 p; Margin: Auto 20px; PADDING: 15px 10px; Background: #FFF; } {Small margin: 2px solid # 777; Ray border: 7px; PADDING: 5px 12px; Color: # 777; }
After configuring the reacting project, we are now in conditions to implement the page in our application. There different types of page that can be seen in many web applications. Some only show "next" and the "previous" buttons to go to the next or previous page. Some also show the number of the current page, the page number of the next and former page page and also total number of pages. We will show 5 pages of country at a time and also M Show "Next" and "Previous" buttons to go to the next or previous page. we will also allow the user to click on any number of the page to go for that pace. For example, if we have total 100 messages and we want to show 10 posts per page, then we will have a total of 10 pages and we will show only 5 pages at a time and if the user is currently on the pan Gina 5, click the next button will show pages from 6 to 10. If it is not clear, it will be once you deploy the pagination function page ({data, renderComponent, tortuum, pagelimit, datalimit}) {const (pages) = usestate (Math.Round (data .length / datalimit));
Const (Currentpage, SetCurrentPage) = Usestate (1);
GotOnextPage () {function has not yet been implemented}
gotopreviouspage () {function not yet implemented}
changePage (event) {function still do not Implemented}
Const GetPaginatedData = () => {function Not yet implemented};
Const getpaginationgroup = () => {function Not yet implemented};
Returns ( ... ); }
Shows the code above the structure of the page component that we will use to implement the page in our Application. This Component receives 5 props:
Data: A data array that should be shown in FormRenderComponent Paginated: Component to which should be used to show the pagged data. In our case, this will be the Post component that we create Earlier.
Title: This is the title that should describe the data content is concerned. In our case, the postsdatalimit will be: the number of messages to be shown on each page. In our case, it will be 10.
pagelimit: the number of pages to be shown on the page. In our case, this will be 5 pages per time. We will save 2 things in our state:
pages: the total number of pages. This will be calculated by dividing the length of the data vector that will be transmitted to this component as a support, the datalimit that is the number of positions that are shown in each page. We also need to round the result of this division.
CurrentPage: This is the current page that the user is visiting. The initial value will be 1. After this, we have 5 functions that will be explained after they have been implemented. Once we have implemented these functions, we will complete the JSX code that will be returned from the component. now page allows you to implement each function. gotonextpage will increase the current page calling setCurrentPage. function gotonextpage () {setCurrentPage ((page) => Page + 1); }
The GotopreviousPage function will decrease the current page by calling SetCurrentPage. function GotopreviousPage () {SetCurrentPage ((page) => Page - 1); }
The changePage function will be called when the user clicks on any number of the page and it will change the current page for the page number that was clicked by ChangePage User. function (Event) {const pagenumber = number (event.target.textContent);
SetCurrentPage (Numpag); }
Using Event.Target, we extract the page number from the Pagination item The user clicked. Then, after converting it to a number, we call the SetCurrentPage. The GetPaginatedData function when called, will return the message number equal to the datalimit (10 posts in our case), which will be displayed to user. const getpaginateddata = () => {const = currentpage * datalimit - datalimit;
Const Inexinal = indexnial + datalimit;
return data.slice (interncinial, investignal); }
To decide which 10 10 To show, the GetPaginatedData function calculates initiated and final investments. The innkeeper is calculated using CurrentPage and the datalimit and the final index is calculated by adding the inex start and the datalimit. once, we have the beginnings of beginning and end, we cut the array data and return the stained array. This cropped array will be used to display the posts on the current page. The getpagatationgroup functions is used to show the group of page numbers on the page. In our case, as we define Pagelimit to 5, then we will show 5 pages of page at a time for the user. const getpagatationgroup = () => {Let Start = Math.Floor ((Currentpage - 1) / Pagelimit ) * pagelimit;
Return the new matrix (pagelimit) .fill (). Map ((, IDX) => Start + IDX + 1); };
This function calculates the starting point that will be used to show the subsequent page numbers. For example, if the beginning is 0, this function will return a matrix that appears: [1, 2, 3, 4, 5]; and if the beginning is 5, the matrix returned by this function will be: [6, 7, 8, 9, 10]; these numbers represent the page numbers that will be shown to the user in groups of 5. It will be clearer if you see it in action, then let's continue and complete the component of PAGE. Now that we have implemented the functions, the only thing that left in our page component is the JSX code that will be returned by this component. Return ( {title} {function Show posts, 10 posts at a time * * } {getPagenedData () .Map ((D, IDX) => ({})) {function Show the pagean consisting of buttons then and arranged along with page numbers, in our case, 5 page numbers at a time * / } {function Buton Previous * / }
```

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