

React

1. React: Slideshow App

21m left

1. React: Slideshow App

Create a basic slideshow application, as shown below. Application requirements are given below, and the finished application must pass all of the unit tests.

Your task is to complete the implementation of `src/components/Slides.js` according to the following requirements:

- The `Slides` component takes an array of slides as a prop. Each element of this array denotes a single slide and is an object with 2 properties: `string title` and `string text`.
- On application launch, the first slide must be rendered.
- Clicking on the "Next" button shows the next slide. This button is disabled when the current slide is the last one.
- Clicking on the "Prev" button shows the previous slide. This button is disabled when the current slide is the first one.
- Clicking on the "Restart" button returns to the first slide. This button is disabled when the current slide is the first one.
- You can assume that the passed slides array contains at least one slide.

Initially, the file is filled with boilerplate code. Note the following:

```
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules/jest-haste-map/node_modules/fsevents):  
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"linux","arch":"x64"})  
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audited 2158 packages in 13.238s  
59 packages are looking for funding  
run 'npm fund' for details  
found 657 vulnerabilities (5 low, 303 moderate, 280 high, 69 critical)  
run 'npm audit fix' to fix them, or 'npm audit' for details  
> project@0.1.0 test /projects/challenge  
> cross-env CI=true ./node_modules/bin/react-scripts test --verbose --env=jsdom --testResultsProcessor ./node_modules/jest-junit  
PASS src/App.test.js  
✓ App renders correctly (40ms)  
✓ Switching between slides works as expected (59ms)  
Test Suites: 1 passed, 1 total  
Tests: 2 passed, 2 total  
Snapshots: 0 total  
Time: 3.054s, estimated 5s  
Ran all test suites.
```

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```

Please note that the component has the above `data-testid` attributes for test cases and certain classes and ids for rendering purposes. It is advised not to change them.

Software Instructions
The question(s) requires **Node 8 LTS or above**.

- [Download & Install Node.js](#)

Git Instructions
Use the following commands to work with this project

Web IDE

View Debug Terminal Run ▾

Explorer Projects Type Hierarchy

```
App.js Slides.js
```

```
challenge > src > components > Slides.js > ...
  3  function Slides({slides}) {
  4    const [activeStep, setActiveStep] = React.useState(0);
  5    let allSlides = slides;
  6
  7    const reset = () => {
  8      setActiveStep(0)
  9    }
 10   const next = () => {
 11     let step = activeStep;
 12     setActiveStep(++step)
 13   }
 14   const pre = () => {
 15     let step = activeStep;
 16     setActiveStep(--step)
 17   }
 18   const getContent = () => {
 19
 20     let data = allSlides[activeStep];
 21
 22
 23     return <div id="slide" className="card text-center">
 24       <h1 data-testid="title">{data.title}</h1>
 25       <p data-testid="text">{data.text}</p>
 26     </div>
 27   }
 28   return (

```

To create a production build, use `npm run build`.

Problems Terminal 0

Ln 33, Col 94 LF UTF-8 Spaces: 2 JavaScript

Test Results Help Run Tests Submit

HackerRank Question - React Slideshow App Sorting Articles hackerrank - GitHub Topics +

vm-3812f2f6-6069-4e06-8e45-28627830fc6e-8000.us-vmprovider.projects.hrcdn.net

Slideshow App

Restart Prev Next

Today's workout plan

We're gonna do 3 fundamental exercises.



Restart

Prev

Next

First, 10 push-ups

Do 10 reps. Remember about full range of motion. Don't rush.

Slideshow App

Next, 20 squats

Squats are important. Remember to keep your back straight.

Web IDE

View Debug Terminal Run ▾

challenge > src > components > Slides.js

```
17 }
18 const getContent = () => {
19
20   let data = allSlides[activeStep];
21
22
23   return <div id="slide" className="card text-center">
24     <h1 data-testid="title">{data.title}</h1>
25     <p data-testid="text">{data.text}</p>
26   </div>
27
28   return (
29     <div id="navigation" className="text-center">
30       <button onClick={() => reset()} data-testid="button-restart" className="small outlined" disabled={activeStep === 0} >Restart</button>
31       <button onClick={() => pre()} data-testid="button-prev" className="small" disabled={activeStep === 0} >Prev</button>
32       <button onClick={() => next()} data-testid="button-next" className="small" disabled={activeStep === allSlides.length - 1} >Next</button>
33     </div>
34     {getContent()}
35   </div>
36 );
37
38
39 }
40
41 export default Slides;
```

Problems Terminal 0

To create a production build, use `npm run build`.

Test Results Help

Run Tests Submit

2.React: Sorting Articles

2. React: Sorting Articles

Create a basic article sorting application, as shown below. Some core functionalities have already been implemented, but the application is not complete. Application requirements are given below, and the finished application must pass all of the unit tests.



The app has one component named Articles. The list of articles to be displayed is already provided in the app.

The app must have the following functionalities:

- The list of articles is passed to the App component as a prop in the form of an array of objects.
- Each article has the following three properties:
 - title*: The title of the article [STRING]
 - upvotes*: The number of upvotes for an article [NUMBER]

Web IDE

View Debug Terminal Run ▾

Explorer ... Projects Type Hierarchy

App.js Articles.js

challenge > src > components > Articles.js > ...

```
1 import React from 'react';
2
3 function Articles(props) {
4   const allArticles = props.articles;
5   return (
6     <div className="card w-50 mx-auto">
7       <table>
8         <thead>
9           <tr>
10             <th>Title</th>
11             <th>Upvotes</th>
12             <th>Date</th>
13           </tr>
14         </thead>
15         <tbody>
16           {
17             allArticles.map(a => {
18               return <tr data-testid="article" key={a.date}>
19                 <td data-testid="article-title">{a.title}</td>
20                 <td data-testid="article-upvotes">{a.upvotes}</td>
21                 <td data-testid="article-date">{a.date}</td>
22               </tr>
23             })
24           }
25         </tbody>
26       </table>
27     </div>
28   )
29 }
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```

The app has one component named Articles. The list of articles to be displayed is already provided in the app.

The app must have the following functionalities:

- The list of articles is passed to the App component as a prop in the form of an array of objects.
- Each article has the following three properties:
 - `title`: The title of the article [STRING]
 - `upvotes`: The number of upvotes for an article [NUMBER]
 - `date`: The publish date for the article in the format YYYY-MM-DD [STRING]
- By default, the articles should be displayed in the table ordered by the number of upvotes in descending order.
- Clicking on the "Most Upvoted" button should reorder and display the articles by the number of upvotes in descending order.
- Clicking on the "Most Recent" button should reorder and display the articles by date in descending order.
- You can assume that each article has a unique publish date and number of upvotes.

Your task is to complete the implementation of 'src/App.js' and 'src/components/Articles.js'.

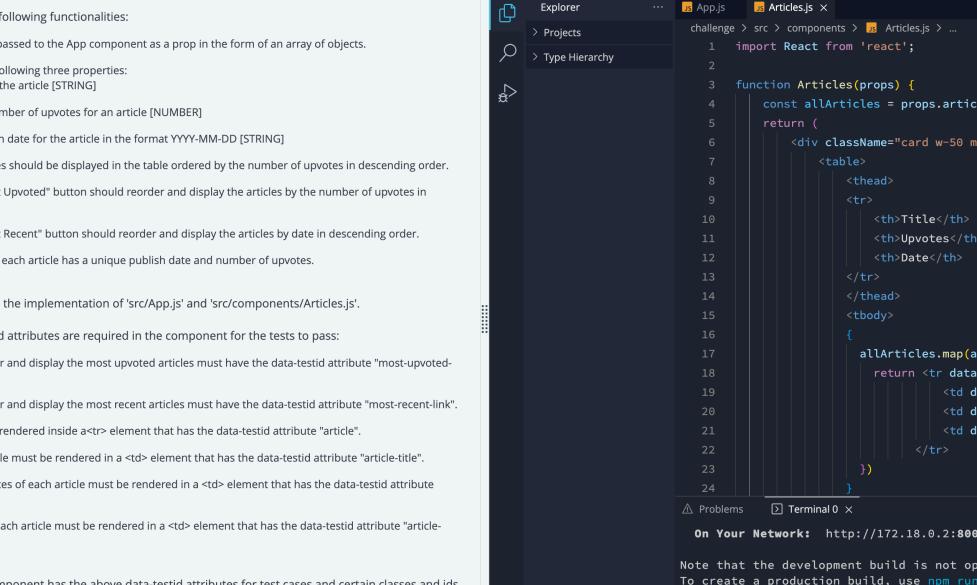
The following data-testid attributes are required in the component for the tests to pass:

- The button to reorder and display the most upvoted articles must have the data-testid attribute "most-upvoted-link".
- The button to reorder and display the most recent articles must have the data-testid attribute "most-recent-link".
- Each article must be rendered inside a `<tr>` element that has the data-testid attribute "article".
- The title of each article must be rendered in a `<td>` element that has the data-testid attribute "article-title".
- The number of upvotes of each article must be rendered in a `<td>` element that has the data-testid attribute "article-upvotes".
- The publish date of each article must be rendered in a `<td>` element that has the data-testid attribute "article-date".

Please note that the component has the above data-testid attributes for test cases and certain classes and ids for rendering purposes. It is advised not to change them.

Software Instructions

The question(s) requires **Node 8 LTS or above**.



The screenshot shows a web-based IDE interface. At the top, there's a header with a user icon and the text "@ Web IDE". Below it is a navigation bar with 'View', 'Debug', 'Terminal', 'Run', and a dropdown menu. The main area is a code editor with two tabs: 'App.js' and 'Articles.js'. The 'Articles.js' tab is active, displaying the following code:

```
import React from 'react';
function Articles(props) {
  const allArticles = props.articles;
  return (
    <div className="card w-50 mx-auto">
      <table>
        <thead>
          <tr>
            <th>Title</th>
            <th>Upvotes</th>
            <th>Date</th>
          </tr>
        </thead>
        <tbody>
          {allArticles.map(a => {
            return <tr data-testid="article">
              <td data-testid="article-title">{a.title}</td>
              <td data-testid="article-upvotes">{a.upvotes}</td>
              <td data-testid="article-date">{a.date}</td>
            </tr>
          })}
        </tbody>
      </table>
    </div>
  );
}
export default Articles;
```

Below the code editor is a 'Problems' panel and a 'Terminal' tab with the URL `http://172.18.0.2:8000`. The status bar at the bottom shows 'Ln 28, Col 7 LF UTF-8 Spaces: 2 JavaScript' and icons for Run Tests and Submit.

Web IDE

View Debug Terminal Run ▶

Install Articles.js ×

src > components > Articles.js > ...

ort React from 'react';

function Articles(props) {

const allArticles = props.articles;

return (

<div className="card w-50 mx-auto">

<table>

<thead>

<tr>

<th>Title</th>

<th>Upvotes</th>

<th>Date</th>

</tr>

</thead>

<tbody>

{

allArticles.map(a => {

return <tr data-testid="article" key={a.date}>

<td data-testid="article-title">{a.title}</td>

<td data-testid="article-upvotes">{a.upvotes}</td>

<td data-testid="article-date">{a.date}</td>

</tr>

})
 }

On Your Network: http://172.18.0.2:8000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

Problems Terminal 0

Ln 28, Col 7 LF UTF-8 Spaces: 2 JavaScript

Test Results Help Run Tests Submit

```
<div className="card w-50 mx-auto">
    <table>
        <thead>
            <tr>
                <th>Title</th>
                <th>Upvotes</th>
                <th>Date</th>
            </tr>
        </thead>
        <tbody>
            {allArticles.map(a => {
                return <tr data-testid="article" key={a.date}>
                    <td data-testid="article-title">{a.title}</td>
                    <td data-testid="article-upvotes">{a.upvotes}</td>
                    <td data-testid="article-date">{a.date}</td>
                </tr>
            })
        }
    </tbody>
</table>
</div>
```

Web IDE

View Debug Terminal Run

App.js Articles.js

```
challenge > src > components > Articles.js > ...
11   <th>Upvotes</th>
12   <th>Date</th>
13   </tr>
14   </thead>
15   <tbody>
16   {
17     allArticles.map(a => {
18       return <tr data-testid="article" key={a.date}>
19         <td data-testid="article-title">{a.title}</td>
20         <td data-testid="article-upvotes">{a.upvotes}</td>
21         <td data-testid="article-date">{a.date}</td>
22       </tr>
23     })
24   }
25   </tbody>
26 </div>
27 );
28 );
29
30 }
31
32 export default Articles;
33
```

Problems Terminal 0

On Your Network: http://172.18.0.2:8000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

Test Results Help

Web IDE

View Debug Terminal Run

App.js Articles.js

```
challenge > src > App.js > ...
1 import React from 'react';
2 import './App.css';
3 import 'h8k-components';
4
5 import Articles from './components/Articles';
6
7 const title = "Sorting Articles";
8
9 function App({articles}) {
10
11   const [state, setState] = React.useState("VOTE");
12
13   const setSortState = (state) => {
14     setState(state);
15   }
16
17   const getContent = () => {
18     let sortedArticles = articles;
19
20     if(state === "VOTE") {
21       sortedArticles.sort((a, b) => (a.upvotes < b.upvotes) ? 1 : -1);
22     } else {
23       sortedArticles.sort((a, b) => (a.date < b.date) ? 1 : -1);
24     }
25
26     return <Articles articles={sortedArticles}/>
27   }
28
29
30   return (
31     <div>
32       <h1>{title}</h1>
33       <button onClick={()=>setSortState("VOTE")}>Most Upvoted</button>
34       <button onClick={()=>setSortState("RECENT")}>Most Recent</button>
35       <table border="1">
36         <thead>
37           <tr>
38             <th>Title</th>
39             <th>Upvotes</th>
40             <th>Date</th>
41           </tr>
42         </thead>
43         <tbody>
44           {getContent()}
45         </tbody>
46       </table>
47     </div>
48   );
49 }
50
51
52 export default App;
```

Problems Terminal 0

On Your Network: http://172.18.0.2:8000

Note that the development build is not optimized.
To create a production build, use `npm run build`.

Test Results Help

The app has one component named Articles. The list of articles to be displayed is already provided in the app.

The app must have the following functionalities:

- The list of articles is passed to the App component as a prop in the form of an array of objects.
- Each article has the following three properties:
 - title**: The title of the article [STRING]
 - upvotes**: The number of upvotes for an article [NUMBER]
 - date**: The publish date for the article in the format YYYY-MM-DD [STRING]
- By default, the articles should be displayed in the table ordered by the number of upvotes in upvotes in descending order.
- Clicking on the "Most Upvoted" button should reorder and display the articles by the number of upvotes in descending order.
- Clicking on the "Most Recent" button should reorder and display the articles by date in descending order.
- You can assume that each article has a unique publish date and number of upvotes.

Your task is to complete the implementation of 'src/App.js'.

Web IDE

View Debug Terminal Run ▾

App.js × Articles.js

```

challenge > src > App.js > ...
19     if(state === "VOTE"){
20         sortedArticles.sort((a, b) => (a.upvotes < b.upvotes) ? 1: -1)
21     } else{
22         sortedArticles.sort((a, b) => (a.date < b.date) ? 1: -1)
23     }
24     return <Articles articles={sortedArticles}>
25   }
26   return (
27     <div className="App">
28       <h1>{header}</h1>
29       <div className="layout-row align-items-center justify-content-center my-20 navigation">
30         <label className="form-hint mb-0 text-uppercase font-weight-light">Sort By</label>
31         <button onClick = {() => setSortState("VOTE")} data-testid="most-upvoted-link" className="small">Most Upvoted</button>
32         <button onClick = {() => setSortState("DATE")} data-testid="most-recent-link" className="small">Most Recent</button>
33       </div>
34       {getContent()}
35     </div>
36   );
37
38 ]
39
40 export default App;
41

```

Problems Terminal 0 ×

On Your Network: http://172.18.0.2:8009

Note that the development build is not optimized.
To create a production build, use `npm run build`.

Ln 34, Col 27 LF UTF-8 Spaces: 2 JavaScript

Test Results Help Run Tests Submit

Sorting Articles

SORT BY Most Upvoted Most Recent

Title	Upvotes	Date
Scaling to 100k Users	72	2019-01-21
the Emu War	24	2019-10-21
Alphabet earnings	22	2019-11-23
A message to our customers	12	2020-01-24
Simple text editor has 15k monthly users	7	2010-12-31
Artificial Mountains	2	2019-11-22
What's SAP	1	2019-11-21

Sorting Articles			
Sort By		Most Upvoted	Most Recent
Title	Upvotes	Date	
A message to our customers	12	2020-01-24	
Alphabet earnings	22	2019-11-23	
Artificial Mountains	2	2019-11-22	
What's SAP	1	2019-11-21	
the Emu War	24	2019-10-21	
Scaling to 100k Users	72	2019-01-21	
Simple text editor has 15k monthly users	7	2010-12-31	

The screenshot shows a browser-based IDE interface for a React application. The top navigation bar includes 'View', 'Debug', 'Terminal', and 'Run'. The main area displays the file 'Articles.js' with the following code:

```
challenge > src > components > Articles.js > Articles > ...
17
18 allArticles.map(a => {
19   return <tr data-testid="article" key={a.date}>
20     <td data-testid="article-title">{a.title}</td>
21     <td data-testid="article-upvotes">{a.upvotes}</td>
22     <td data-testid="article-date">{a.date}</td>
23   </tr>
)
Problems Terminal 0
```

To create a production build, use `npm run build`.

The bottom right corner shows the status bar with 'Ln 7, Col 20 - LF - UTF-8 - Spaces: 2 - JavaScript' and icons for 'Run Tests' and 'Submit'.

Test Results

Title	Updates	Date
Solving ID bugs	3	2024-02-01
Fix the bug	3	2024-02-01
Upvote sorting	2	2024-02-01
Incorrect upvotes	1	2024-02-01
Stop user from clicking twice	1	2024-02-01
Initial renders	1	2024-02-01
Reset IP	1	2024-02-01

Help

npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules/watchpack-chokidar2/node_modules/fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"linux","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules/webpack-dev-server/node_modules/fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"any"} (current: {"os":"linux","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.1.2 (node_modules/fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.1.2: wanted {"os":"darwin","arch":"any"} (current: {"os":"linux","arch":"x64"})
audited 2105 packages in 17.917s
found 626 vulnerabilities (8 low, 293 moderate, 267 high, 58 critical)
run `npm audit fix` to fix them, or `npm audit` for details
> sorting-articles@0.1.0 test /projects/challenge
> cross-env CI=true ./node_modules/.bin/react-scripts test --verbose --env=jsdom --testResultsProcessor ./node_modules/jest-junit
PASS src/App.test.js
✓ Initial articles render correctly (64ms)
✓ Clicking on top renders expected articles (24ms)
✓ Clicking on newest renders expected articles (32ms)
✓ Sequence of navigation clicks renders expected articles (66ms)
Test Suites: 1 passed, 1 total
Tests: 4 passed, 4 total
Snapshots: 0 total
Time: 3.805s, estimated 4s
Run all test suites.