

POSTMAN

<https://nextleap.app/online-compiler/reactjs-programming/r4rv5flc8>

COMPONENTS/BREADCRUMBS.JSX

```
import React from 'react';
import './Breadcrumb.css';

const Breadcrumb = ({ path, onNavigate }) => {
  return (
    <div className="breadcrumb__container">
      <span onClick={() => onNavigate(null)}>
        Root
      </span>
      {path.length > 0 ? (path.map((item, idx) => {
        return <span key={item.id} className="breadcrumb__item"
onClick={() => onNavigate(item.id)}>
          {item.name}
          {idx<path.length - 1 ? " > ": ""}
        </span>
      ))) : (
        null
      )}
    </div>
  );
}

export default Breadcrumb;
```

COMPONENTS/BREADCRUMBS.CSS

```
.breadcrumb__container{
  padding: 10px;
  background: red;
  margin-bottom: 10px;
}
```

```
.breadcrumb__item{
  cursor: pointer;
}
```

COMPONENTS/FILEEXPLORER.CSS

```
.fileexplorer__container{
  padding: 20px;
}
```

```
.fileexplorer__content{
```

```

    display: grid;
    grid-template-columns: repeat(4, 1fr);
    gap: 10px;
  }

  .fileexplorer__item{
    padding: 20px;
    text-align: center;
  }

```

COMPONENTS/FILEEXPLORER.JSX

```

import React, {useState} from 'react';
import {fileStructure} from '../data';
import Breadcrumb from './Breadcrumb';
import './FileExplorer.css';

const FileExplorer = () => {
  const [currentPath, setCurrentPath] = useState([]);

  const getCurrentFolderContent = () => {
    let content = fileStructure;

    for(const folder of currentPath){
      const found = content.find(item=> {return item.id ===
folder.id});

      if(found && found.type=="folder" && found.children){
        content = found.children;
      }
    }

    return content;
  };

  const handleNavigate = (item) => {
    if(item.type=="folder"){
      setCurrentPath([...currentPath, item]);
    }
  };

  const handleBreadcrumbClick = (id) => {
    if(id === null)
    {
      setCurrentPath([]);
    }
  }

```

```

        else{
            const index = currentPath.findIndex((item) => item.id ===
id);

            if(index !== -1)
                setCurrentPath(currentPath.slice(0, index+1));
        }
    }

    return (
        <div className="fileexplorer__container">
            <Breadcrumb path={currentPath}
onNavigate={handleBreadcrumbClick}/>

            <div className="fileexplorer__content">
                {getCurrentFolderContent().map((item) => (
                    <div key={item.id} className="fileexplorer__item"
                        style={{backgroundColor: item.type==="folder" ? "green"
: "grey", cursor: item.type==="folder" ? "pointer" : "default"}}
                        onClick={() => handleNavigate(item)}>
                            {item.name}
                        </div>
                ))}
            </div>
        </div>
    );
}

export default FileExplorer;

```

DATA.JS

```

// Folder Structure --> DONE

// JSON structure
export const fileStructure = [
    {
        id: "1",
        name: "Folder 1",
        type: "folder",
        children: [
            {
                id: "2",
                name: "Folder 2",
                type: "folder",
                children: [

```

```

        {
            id: "3",
            name: "File 1",
            type: "file",
        },
        {
            id: "4",
            name: "Folder 3",
            type: "folder",
            children: []
        }
    ],
},
{
    id: "5",
    name: "File 2",
    type: "file",
}
],
},
{
    id: "6",
    name: "Folder 4",
    type: "folder",
    children: [
        {
            id: "7",
            name: "File 3",
            type: "file",
        },
        {
            id: "8",
            name: "Folder 5",
            type: "folder",
            children: []
        }
    ]
}
];

```

APP.JSX

```

import React from 'react';
import FileExplorer from './components/FileExplorer';

```

```
// N-level nested folder structure  
// Breadcrumbs  
// Breadcrumbs are clickable
```

```
const App = () => {  
  return <div>  
    <FileExplorer/>  
  </div>  
}
```

```
export default App;
```