

```
import React, { useState } from 'react';

import './App.css';

import List from './List';

function App() {

  const [isAuthenticated, setIsAuthenticated] = useState(false);

  const login = () => {

    setIsAuthenticated(true);

  };

  return (

    <div className="App">

      {!isAuthenticated ? (

        <div className="login">

          <h2>Login</h2>

          <input type="text" placeholder="Username" />

          <input type="password" placeholder="Password" />

          <button onClick={login}>Login</button>

        </div>

      ) : (

        <List />

      )}

    </div>

  );
```

```
}
```

```
export default App;
```

```
import React, { useState, useEffect } from 'react';
```

```
import './List.css';
```

```
import ListItem from './ListItem';
```

```
const List = () => {
```

```
  const [contacts, setContacts] = useState([]);
```

```
  const [visibleContacts, setVisibleContacts] = useState([]);
```

```
  const [isLoading, setIsLoading] = useState(false);
```

```
  useEffect(() => {
```

```
    fetch('https://randomuser.me/api/?results=500')
```

```
      .then((res) => res.json())
```

```
      .then((data) => {
```

```
        setContacts(data.results);
```

```
        setVisibleContacts(data.results.slice(0, 20));
```

```
      });
```

```
    }, []);
```

```
  const handleScroll = () => {
```

```
    const scrollTop = document.documentElement.scrollTop;
```

```
    const windowHeight = window.innerHeight;
```

```
    const fullHeight = document.documentElement.scrollHeight;
```

```

if (scrollTop + windowHeight === fullHeight && !isLoading) {
  setIsLoading(true);
  setTimeout(() => {
    setVisibleContacts((prevVisibleContacts) => [
      ...prevVisibleContacts,
      ...contacts.slice(
        prevVisibleContacts.length,
        prevVisibleContacts.length + 20
      ),
    ]);
    setIsLoading(false);
  }, 1000);
}
};

```

```

useEffect(() => {
  window.addEventListener('scroll', handleScroll);

  return () => window.removeEventListener('scroll', handleScroll);
}, []);

```

```

const handleLogout = () => {
  window.location.reload();
};

```

```

return (
  <div>
    <button className="logout" onClick={handleLogout}>
      Logout
    </button>
    <div className="list">
      {visibleContacts.map((contact, index) => (
        <ListItem key={index} contact={contact} />
      ))}
      {isLoading && <div className="loading">Loading...</div>}
    </div>
  </div>
);
};

```

```
export default List;
```

```
import React from 'react';
```

```

const ListItem = ({ contact }) => {
  return (
    <div className="list-item">
      <img src={contact.picture.large} alt={contact.name.first} />
      <div>
        <h2>{contact.name.first + ' ' + contact

```

