## **Authentication**

#### 1. Create Custom Hooks for Authentication

You can create custom hooks to handle authentication logic, such as storing and retrieving user information from localStorage.

#### **Create a Custom Hook for Authentication**

Create a file named useAuth.js inside the hooks folder (you may need to create this folder if it doesn't exist):

```
javascript
                                                                               Copy code
// hooks/useAuth.js
import { useState, useEffect } from 'react';
export function useAuth() {
 const [user, setUser] = useState(null);
 useEffect(() => {
   const token = localStorage.getItem(AUTH_TOKEN_KEY);
   if (token) {
     // Assume the token contains user info or decode it to get user info
     // For example, you might use a library like jwt-decode here
      setUser({ token }); // You would set user details here
  }, []);
 const login = (token) => {
   localStorage.setItem(AUTH_TOKEN_KEY, token);
    setUser({ token });
  };
  const logout = () => {
   setUser(null);
  return { user, login, logout };
                                         (\downarrow)
```

#### 2. Implement Login and Logout Pages

Create simple login and logout pages that use this hook.

## **Login Page**

Create a file at pages/login.js:

```
// pages/login.js
import { useState } from 'react';
import { useAuth } from '../hooks/useAuth';
export default function LoginPage() {
 const [username, setUsername] = useState('');
const [password, setPassword] = useState('');
 const { login } = useAuth();
 const handleSubmit = async (e) => {
    e.preventDefault();
    // Replace this with your authentication logic
    const token = 'fake-jwt-token'; // This should be replaced with an actual token from y
   login(token);
    window.location.href = '/'; // Redirect after login
  };
  return (
    <form onSubmit={handleSubmit}>
      <label>
        Username:
        <input
          type="text"
          onChange={(e) => setUsername(e.target.value)}
        />
      </label>
      <label>
        Password:
        <input
          type="password"
          value={password}
          onChange={(e) => setPassword(e.target.value)}
      </label>
      <button type="submit">Login/button>
    </form>
  );
```

## **Logout Page**

Create a file at pages/logout.js:

```
javascript

// pages/logout.js
import { useEffect } from 'react';
import { useAuth } from '../hooks/useAuth';

export default function LogoutPage() {
  const { logout } = useAuth();

  useEffect(() => {
    logout();
    window.location.href = '/'; // Redirect after logout
  }, [logout]);

  return Logging out...;
}
```

## 3. Protect Routes

To protect routes, you can use the useAuth hook in your components to check if a user is logged in.

# Protected Page Srb IT Solution

Create a file at pages/protected.js:

Convert your ideas into Application

```
Copy code
// pages/protected.js
import { useAuth } from '../hooks/useAuth';
import { useEffect } from 'react';
export default function ProtectedPage() {
 const { user } = useAuth();
 useEffect(() => {
   if (!user) {
     window.location.href = '/login'; // Redirect to login if not authenticated
  }, [user]);
  if (!user) {
   return Loading...; // You might want to show a loading spinner or message here
   <div>
     <h1>Protected Page</h1>
     Welcome, you are logged in!
   </div>
  );
```

# 4. Add Authentication Check in \_app.js (Optionally)

To apply authentication checks across all pages, you can add logic to \_app.js.

## Modify \_app.js

## **Summary**

- 1. **Create a custom hook useAuth** to manage authentication with localStorage.
- 2. **Build login and logout pages** that utilize the useAuth hook.
- 3. **Protect routes** by checking authentication status using the useAuth hook.
- 4. Optionally, apply authentication logic globally in \_app.js if needed.



# Srb IT Solution

Convert your ideas into Application