

```
// src/App.js

import React from 'react';
import { BrowserRouter as Router, Routes, Route, Navigate } from 'react-router-dom';
import TodoList from './components/TodoList';
import CreateTodo from './components/CreateTodo';
import UpdateTodo from './components/UpdateTodo';
import Login from './components/Login';
import Signup from './components/Signup';

const App = () => {
  const isAuthenticated = !!localStorage.getItem('token');

  return (
    <Router>
      <Routes>
        <Route path="/login" element={<Login />} />
        <Route path="/signup" element={<Signup />} />
        <Route
          path="/todos"
          element={isAuthenticated ? <TodoList /> : <Navigate to="/login" />}
        />
        <Route
          path="/create"
          element={isAuthenticated ? <CreateTodo /> : <Navigate to="/login" />}
        />
        <Route
          path="/update/:id"
        />
      </Routes>
    </Router>
  );
}

export default App;
```

```
      element={isAuthenticated ? <UpdateTodo /> : <Navigate to="/login" />}

    />

    <Route path="/" element={<Navigate to="/login" />} />

  </Routes>

</Router>

);

};

export default App;
```

```
// src/components/UpdateTodo.js

import React, { useEffect, useState } from 'react';
import axios from 'axios';
import { Button, Form, Container } from 'react-bootstrap';
import { useParams, useNavigate } from 'react-router-dom';

const UpdateTodo = () => {

  const { id } = useParams();
  const [text, setText] = useState("");
  const navigate = useNavigate();

  useEffect(() => {

    const fetchTodo = async () => {

```

```
try {

  const token = localStorage.getItem('token');

  const response = await axios.get(`http://localhost:3000/api/v1/todo/getAllTodo`, {
    headers: { Authorization: `Bearer ${token}` },
  });

  const todo = response.data.todoInfo.find((t) => t._id === id);

  if (todo) setText(todo.text);

} catch (error) {

  console.error('Error fetching todo', error);

}

};

fetchTodo();

}, [id]);
```

```
const handleSubmit = async (e) => {

  e.preventDefault();

  try {

    const token = localStorage.getItem('token');

    await axios.put(
      `http://localhost:3000/api/v1/todo/editTodo/${id}`,
      { text },
      { headers: { Authorization: `Bearer ${token}` } }
    );

    navigate('/todos');

  } catch (error) {

    console.error('Error updating todo', error);

  }

}
```

```
};

return (
<Container>
<h2>Update Todo</h2>
<Form onSubmit={handleSubmit}>
<Form.Group className="mb-3">
<Form.Label>Todo Text</Form.Label>
<Form.Control
  type="text"
  value={text}
  onChange={(e) => setText(e.target.value)}
  required
/>
</Form.Group>
<Button type="submit">Update Todo</Button>
</Form>
</Container>
);

};

export default UpdateTodo;
```

```
// src/components/CreateTodo.js

import React, { useState } from 'react';
import axios from 'axios';
import { Button, Form, Container } from 'react-bootstrap';
import { useNavigate } from 'react-router-dom';

const CreateTodo = () => {
  const [text, setText] = useState('');
  const navigate = useNavigate();

  const handleSubmit = async (e) => {
    e.preventDefault();
    try {
      const token = localStorage.getItem('token');
      await axios.post(
        'http://localhost:3000/api/v1/todo/addTodo',
        { text },
        { headers: { Authorization: `Bearer ${token}` } }
      );
      navigate('/todos');
    } catch (error) {
      console.error('Error creating todo', error);
    }
  };
}
```

```
return (

<Container>

<h2>Create Todo</h2>

<Form onSubmit={handleSubmit}>

<Form.Group className="mb-3">

<Form.Label>Todo Text</Form.Label>

<Form.Control

  type="text"

  value={text}

  onChange={(e) => setText(e.target.value)}

  required

/>

</Form.Group>

<Button type="submit">Add Todo</Button>

</Form>

</Container>

);

};

export default CreateTodo;
```

```
import React, { useEffect, useState } from 'react';
import axios from 'axios';
import { Button, ListGroup, Container } from 'react-bootstrap';
import { useNavigate } from 'react-router-dom';

const TodoList = () => {
  const [todos, setTodos] = useState([]);
  const navigate = useNavigate();

  useEffect(() => {
    fetchTodos();
  }, []);

  const fetchTodos = async () => {
    try {
      const token = localStorage.getItem('token');
      const response = await axios.get('http://localhost:3000/api/v1/todo/getAllTodo', {
        headers: { Authorization: `Bearer ${token}` },
      });
      setTodos(response.data.todoInfo);
    } catch (error) {
      console.error('Error fetching todos', error);
      if (error.response?.status === 401) {
        navigate('/login');
      }
    }
  };
}
```

```
const deleteTodo = async (id) => {
  try {
    const token = localStorage.getItem('token');
    await axios.delete(`http://localhost:3000/api/v1/todo/deleteTodo/${id}`, {
      headers: { Authorization: `Bearer ${token}` },
    });
    fetchTodos(); // Refresh the list
  } catch (error) {
    console.error('Error deleting todo', error);
  }
};

return (
  <Container>
    <h2>Todo List</h2>
    <Button onClick={() => navigate('/create')}>Add Todo</Button>
    <ListGroup className="mt-3">
      {todos.map((todo) => (
        <ListGroup.Item key={todo._id}>
          {todo.text}
          <Button className="mx-2" onClick={() => navigate(`/update/${todo._id}`)}>Edit</Button>
          <Button variant="danger" onClick={() => deleteTodo(todo._id)}>Delete</Button>
        </ListGroup.Item>
      )));
    </ListGroup>
)
```

```
</Container>
);

};

export default TodoList;
```

```
// src/components/Signup.js

import React, { useState } from 'react';
import axios from 'axios';
import { Button, Form, Container, Card, Row, Col } from 'react-bootstrap';
import { useNavigate } from 'react-router-dom';

const Signup = () => {
```

```
const [formData, setFormData] = useState({  
  firstName: "",  
  lastName: "",  
  email: "",  
  password: "",  
});  
  
const navigate = useNavigate();  
  
  
const handleChange = (e) => {  
  const { name, value } = e.target;  
  setFormData({ ...formData, [name]: value });  
};  
  
  
const handleSubmit = async (e) => {  
  e.preventDefault();  
  try {  
    await axios.post('http://localhost:3000/api/v1/auth/signup', formData);  
    navigate('/login'); // Use navigate instead of history  
  } catch (error) {  
    console.error('Error signing up', error);  
  }  
};  
  
  
return (  
  <Container className="d-flex align-items-center justify-content-center" style={{ minHeight: '100vh' }}>  
    <Row className="w-100">  
      <Col md={{ span: 6, offset: 3 }}>
```

```
<Card className="p-4 shadow-sm">

<Card.Body>

  <h2 className="text-center mb-4">Signup</h2>

  <Form onSubmit={handleSubmit}>

    <Form.Group controlId="formBasicFirstName" className="mb-3">

      <Form.Label>First Name</Form.Label>

      <Form.Control

        type="text"

        name="firstName"

        value={formData.firstName}

        onChange={handleChange}

        placeholder="Enter first name"

        required

      />

    </Form.Group>

    <Form.Group controlId="formBasicLastName" className="mb-3">

      <Form.Label>Last Name</Form.Label>

      <Form.Control

        type="text"

        name="lastName"

        value={formData.lastName}

        onChange={handleChange}

        placeholder="Enter last name"

        required

      />

    </Form.Group>

    <Form.Group controlId="formBasicEmail" className="mb-3">
```

```
<Form.Label>Email</Form.Label>

<Form.Control

  type="email"
  name="email"
  value={formData.email}
  onChange={handleChange}
  placeholder="Enter email"
  required

/>

</Form.Group>

<Form.Group controlId="formBasicPassword" className="mb-3">

<Form.Label>Password</Form.Label>

<Form.Control

  type="password"
  name="password"
  value={formData.password}
  onChange={handleChange}
  placeholder="Password"
  required

/>

</Form.Group>

<Button variant="primary" type="submit" className="w-100">
  Signup
</Button>

<div className="text-center mt-3">
  <small>
    Already have an account? <a href="/login">Login</a>
  </small>
</div>
```

```
</small>

</div>

</Form>

</Card.Body>

</Card>

</Col>

</Row>

</Container>

};

};


```

```
export default Signup;
```

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

import axios from 'axios';

import { Button, Form, Container } from 'react-bootstrap';

import { useNavigate } from 'react-router-dom';

const Login = () => {

  const [credentials, setCredentials] = useState({ email: "", password: "" });

  const navigate = useNavigate();

  const handleChange = (e) => {
```

```
const { name, value } = e.target;

setCredentials({ ...credentials, [name]: value });

};

const handleSubmit = async (e) => {

e.preventDefault();

try {

const response = await axios.post('http://localhost:3000/api/v1/auth/login', credentials);

localStorage.setItem('token', response.data.token); // Store token in localStorage

navigate.push('/'); // Redirect to todos after login

} catch (error) {

console.error("Error logging in", error);

}

};

return (

<Container>

<h2>Login</h2>

<Form onSubmit={handleSubmit}>

<Form.Group controlId="formBasicEmail">

<Form.Label>Email</Form.Label>

<Form.Control

type="email"

name="email"

value={credentials.email}

onChange={handleChange}

placeholder="Enter email"


```

```
    required  
  />  
  
</Form.Group>  
  
<Form.Group controlId="formBasicPassword">  
  <Form.Label>Password</Form.Label>  
  <Form.Control  
    type="password"  
    name="password"  
    value={credentials.password}  
    onChange={handleChange}  
    placeholder="Password"  
    required  
  />  
  
</Form.Group>  
  
<Button variant="primary" type="submit">Login</Button>  
  
</Form>  
  
</Container>  
);  
};  
  
export default Login;
```

