```
const User = require("../model/UserModel");
exports.newUser = async (req, res) => {
  try {
    // Get user input
    const { name, password,country } = req.body;
    const params = {};
    if (name) {
      params.name = name;
    if (password) {
     params.password = password;
    if (!(params?.name && params?.password && params?.country)) {
     res.status(400).send({ message: "All input is required" });
    // Create user in our database
    const user = await User.create({
      name: params?.name,
     password: params?.password,
     country: params?.country,
    });
    user.save();
    res.status(201).json(user);
  } catch (err) {
    console.log(err);
};
exports.getAllUsers = async (req, res) => {
  try {
    // Validate if user exist in our database
    const user = await User.find({ });
    if (user) {
      res.status(200).json({
```

```
code: 2001,
    data: user,
    });
}
catch (err) {
    return res.status(500).json({
       code: 2002,
       message: "Something went wrong",
    });
}
```

./server/model/UserModel.js

```
const mongoose = require("mongoose");
//Object Data Modeling (ODM) library for MongoDB and Node.js.
//It manages relationships between data, provides schema validation,
//and is used to translate between objects in code and the representation
//of those objects in MongoDB.
const userSchema = new mongoose.Schema(
    name: {
      type: String,
      required: true,
    password: {
      type: string,
      required: true,
    country: {
      type: string,
      required: true,
    },
    timestamps: true,
    versionKey: false,
);
const User = mongoose.model("User", userSchema);
```

```
module.exports = User;
```

./server/routes/userRoute.js

```
const express = require("express");
const router = express.Router();
const userController = require("../controllers/UserController");

router.post("/new", userController.newUser);
router.get("/getAll", userController.getAllUsers);

module.exports = router;
```

./server/index.js

```
const express = require("express");
const app = express();
const cors = require("cors");
const mongoose = require("mongoose");
const userRoute = require("./routes/userRoute");
const connect = () => {
 mongoose.connect(`mongodb://127.0.0.1:27017/LabExam`, {
   useNewUrlParser: true,
   useUnifiedTopology: true,
 }).then(() => {
    console.log("Successfully connected to database");
 })
  .catch((error) => {
   console.log("database connection failed. exiting now...");
    console.error(error);
   process.exit(1);
 });
app.use(express.json());
```

```
app.use(cors());
app.use("/user", userRoute);
app.listen(8080, async () => {
  await connect();
  console.log(`Server is connected to port 8080`);
});
```

./src/pages/Form.js

```
import React from 'react'
import {Form, Button} from 'react-bootstrap';
import axios from 'axios';
import { useNavigate } from 'react-router-dom';
export default function FormComp() {
  const [name, setName] = React.useState("");
  const [password, setPassword] = React.useState("");
  const [country, setCountry] = React.useState("");
  const history = useNavigate();
  const submitForm = () => {
    axios.post('http://localhost:8080/user/new', {name: name, password: password,
country: country}).then((res) => {
      console.log('res', res);
      alert('User created successfully')
     history('/');
    })
  return (
   <div className='row container'>
    <Form className="col-md-8">
      <Form.Group className="mb-3" controlId="exampleForm.ControlInput1">
        <Form.Label>Name</Form.Label>
        <Form.Control value={name} onChange={(e) => setName(e.target.value)}
type="name" placeholder="Name" />
      </Form.Group>
      <Form.Group className="mb-3" controlId="exampleForm.ControlInput1">
        <Form.Label>Password/Form.Label>
        <Form.Control value={[password]} onChange={(e) =>
setPassword(e.target.value)} type = "password" placeholder='******* />
     </Form.Group>
```

./src/App.js

```
import './App.css';
import React from 'react';
import {
  BrowserRouter,
 Routes,
  Route,
} from "react-router-dom";
import Form from './pages/Form';
function App() {
  return (
     <BrowserRouter>
          <Route path="/" element={<Form />} />
        </Routes>
      </BrowserRouter>
  );
export default App;
```



