

Simple MERN STACK APP

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DB schema

JS user.js X

back-end > db > JS user.js > [🔗] UserSchema > 🔑 password

```
1  const mongoose = require('mongoose');
2
3  const UserSchema = new mongoose.Schema({
4    username:{
5      type:String,
6      required:true,
7      unique:true
8    },
9    password:{
10     type:String,
11     required:true,
12   }
13 });
14
15 const User = mongoose.model('User',UserSchema);
16
17 module.exports = User;
```

Db connection

JS dbConnection.js X

back-end > db > JS dbConnection.js > ...

```
1  const mongoose = require('mongoose');
2  const connectDB = async() => {
3      try{
4          await mongoose.connect('mongodb://127.0.0.1:27017/mydatabase');
5          console.log('Connected to MongoDB');
6      }
7      catch(error){
8          console.log(error);
9      }
10 }
11
12 module.exports = connectDB;
```

Server

```
//Login
✓ app.post('/login', async(req,res)=>{
  ✓ try{
    const {username,password} = req.body;
    const user = await User.findOne({username});

    ✓ if(!user){
      return res.status(401).json({error:'Invalid username or Password'}});
    }

    ✓ if(user.password !== password){
      return res.status(401).json({error:'Invalid username or password'}});
    }
    res.status(200).json({message:'Login successful'})
  }
  ✓ catch(error){
    res.status(500).json({error:'Login failed'})
  }
})
```

```
//Registration
app.post('/register', async (req, res) => {
  try{
    const {username,password} = req.body;
    console.log(req.body)
    const user = new User({username,password});
    await user.save();
    res.status(201).json({message:'Registration Successful'});
  }
  catch(error){
    res.status(500).json({error:'Registration failed'});
  }
})
```

App.js

src / App.js / ...

```
import React from 'react';
import {BrowserRouter,Routes,Route} from 'react-router-dom';
import LoginPage from './LoginPage'
import RegistrationPage from './RegistrationPage';

const App = () => {
  return (
    <BrowserRouter>
      <Routes>
        <Route path='/login' element={<LoginPage/>}/>
        <Route path='/registration' element={<RegistrationPage/>}/>
      </Routes>
    </BrowserRouter>
  )
}

export default App
```

id / src / ... index.js / ...

```
import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App';

const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <React.StrictMode>
    <App />
  </React.StrictMode>
);
```

Login page

```
return (  
  <div>  
    <h1>Login Page</h1>  
    <form onSubmit={handleLoginSubmit}>  
      <input  
        type='text'  
        name='username'  
        placeholder='Username'  
        value={loginData.username}  
        onChange={handleLoginChange}  
        required  
      />  
      <input  
        type='password'  
        name='password'  
        placeholder='Password'  
        value={loginData.password}  
        onChange={handleLoginChange}  
        required  
      />  
      <button type='submit'>Login</button>  
      <p>  
        Not registered yet? <Link to ='/registration'>Register Here</Link>  
      </p>  
    </form>  
  </div>  
)
```


Handle login

```
const handleLoginChange = (e) => {  
  const {name,value} = e.target;  
  setLoginData((prevData) => ({  
    ...prevData,  
    [name]:value  
  })))  
}
```

```
//submit function  
const handleLoginSubmit = async(e) => {  
  e.preventDefault();  
  
  try{  
    const response = await axios.post('http://localhost:8000/login',loginData);  
    const {success,message} = response.data;  
  
    if(success){  
      console.log('Login Successfully')  
    }  
    else{  
      console.log(message);  
    }  
  }  
  catch(error){  
    console.error('Login error',error)  
  }  
  setLoginData({  
    username:'',  
    password:''  
  })  
}
```

Register form

```
return (  
  <div>  
    <h1>Registration Form</h1>  
    <form onSubmit={handleRegistrationSubmit}>  
      <input  
        type='text'  
        name='username'  
        placeholder='Username'  
        value={registrationData.username}  
        onChange={handleRegistrationChange}  
        required  
      />  
  
      <input  
        type='password'  
        name='password'  
        placeholder='Password'  
        value={registrationData.password}  
        onChange={handleRegistrationChange}  
        required  
      />  
  
      <button type='submit'>Register</button>  
  
      <p>  
        Already registered? <Link to="/login">Login Here</Link>  
      </p>  
    </form>  
  </div>  
)
```

Handle register

```
const handleRegistrationSubmit = async(e) => {  
  e.preventDefault();  
  try{  
    const response = await axios.post('http://localhost:8000/register',registrationData);  
    console.log(response.data);  
  }  
  catch(error){  
    console.log(error)  
  }  
  setRegistrationData({  
    username:'',  
    password:'',  
  })  
}
```

```
const RegistrationPage = () => {  
  const [registrationData,setRegistrationData] = useState({  
    username:'',  
    password:''  
  })  
  
  const handleRegistrationChange = (e) => {  
    const {name,value} = e.target;  
  
    setRegistrationData((prevData) => ({  
      ...prevData,  
      [name] : value,  
    })))  
}
```

index.html

index.html X

front-end > public > index.html > html > head > meta

```
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <meta charset="utf-8" />
5      <meta name="viewport" content="width=device-width, initial-scale=1" />
6      <meta name="theme-color" content="#000000" />
7      <meta
8        name="description"
9        content="Web site created using create-react-app"
10     />
11    <title>React App</title>
12  </head>
13  <body>
14    <noscript>You need to enable JavaScript to run this app.</noscript>
15    <div id="root"></div>
16  </body>
17 </html>
```

Thank you