

# **Project:**

## useForm():

- ✓ useForm() is custom hook for managing forms easily. It takes optional arguments.
- √ we can easily validate the form by using useForm()
- ✓ we need to install react-hook-form by using below command

npm i react-hook-form

## Student.js

```
import { useForm } from "react-hook-form";
import { saveUser } from "../FakeDB/DBService";
const Student=()=>{
    const {register,handleSubmit}=useForm()
    function getRegisterStudent(studObj){
        console.log(studObj);
        axios.post("http://127.0.0.1:8090/student",studObj)
        reset()
  }
    return (<>
     <form onSubmit={handleSubmit(getRegisterStudent)}>
        <div className="row">
        <div className="col-md-3">
            <h1 className="text-primary text-center">Register Student</h1>
            <div class="mb-3">
                <input type="text" class="form-control" placeholder="Firstname"</pre>
{...register("firstname")}/>
            </div>
            <div class="mb-3">
                <input type="text" class="form-control" placeholder="Lastname"</pre>
{...register("lastname")}/>
            </div>
            <div class="mb-3">
                <input type="text" class="form-control" placeholder="Mobile"</pre>
{...register("mobile")}/>
            </div>
            <div class="mb-3">
                <input type="text" class="form-control" placeholder="Email"</pre>
{...register("email")}/>
            </div>
            <div class="mb-3 text-center">
                <input type="submit" class="btn btn-success"/>
            </div>
```



now, we need to store this Object, so we will create fake database by using JSON File.

step 1: create a FakeDB folder

step 2: create a db.json file in FakeDB folder

e.g: db.json

- ✓ We want to run this database on server, so we need to install json-server.
- ✓ To install json-server : npm i json-server
- ✓ After installation Configure ison server path with database file in package.json file :

"json-server": "json-server --watch src/FakeDB/db.json --host 127.0.0.1 --port 8088",

To Run JSON-Server: npm run json-server

To communicate with our fake database, we need to use axios Library.

- Axios is a JavaScript library that allows you to connect with the backend API and manage requests made via the HTTP protocol.
- ✓ To install axios library :npm install axios

#### Details.js



```
import axios from 'axios'
import React, { useEffect, useState } from 'react'
import { NavLink } from 'react-router-dom'
function Details() {
 useEffect(()=>{
  getAllStudentData()
 })
 const [students, setStudents] = useState([])
async function getAllStudentData(){
   const allStudents=await axios.get("http://127.0.0.1:8090/student")
   console.log(allStudents.data)
   setStudents(allStudents.data)
 }
 function deleteStudentById(sid){
  // alert(sid)
    axios.delete("http://127.0.0.1:8090/student/"+sid)
 }
 return (<>
  <h1 className='text-primary'>Student Details</h1>
  <thead>
  #
    Firstname
    Lastname
    Mobile
    Email
    Edit
    Delete
  </thead>
 students.map(stud=>{
    return (
     {stud.id}
       {stud.firstname}
       {stud.lastname}
```



```
{stud.mobile}
         {td>{stud.email}
         <NavLink to={`/editStudent/${stud.id}`}> {/* Step 1 */}
              <i class="bi bi-pencil-square text-primary"></i></i></or>
            </NavLink>
        <i class="bi bi-trash text-danger"</pre>
onClick={()=>{deleteStudentById(stud.id)}}></i>
       })
 </>)
export default Details
```

### EditStudent.js

```
import axios from 'axios'
import React, { useEffect, useState } from 'react'
import { useForm } from 'react-hook-form'
import { useNavigate, useParams } from 'react-router-dom'
function EditStudent() {
                                   //step 2 creating Edit Component
   const {sid}=useParams()
                               // Step 4
   useEffect(()=>{
       getStudentById()
                               //step 6
    })
    const [stud, setStudent] = useState({}) // step 8
    const {register,setValue,handleSubmit}=useForm() // step 10
   const navi=useNavigate()
   async function getStudentById(){
                                               //step 7 --> async await
   const student= await axios.get("http://127.0.0.1:8090/student/"+sid)//Step 5
      console.log(student.data)
      setStudent(student.data)
                                       // step 8
```



```
function getUpdatedData(studOBJ){
        //http://127.0.0.1:8090/student /2 , studOBJ
        axios.put("http://127.0.0.1:8090/student/"+studOBJ.id,studOBJ)
        console.log(studOBJ)
        navi("/details")
    }
  return (<>
        <div className='row'>
                                             {/* Step 9 Bootstrap Form */}
        <h3 className='text-primary mt-3'>Update Student
Profile</h3>
        <div className='col-md-3'>
          <form onSubmit={handleSubmit(getUpdatedData)}>
            <div>
              <input type="hidden" {...setValue("id",stud.id)}</pre>
{...register("id")} />
            </div>
          <div class="mb-3">
                                       {/* Step 11 */}
            <input type="text" class="form-control" placeholder="First_name"</pre>
{...setValue("firstname",stud.firstname)) {...register("firstname")}/>
          </div>
          <div class="mb-3">
            <input type="text" class="form-control" placeholder="Lastname"</pre>
{...setValue("lastname", stud.lastname)) {...register("lastname")}/>
          </div>
          <div class="mb-3">
            <input type="text" class="form-control" placeholder="Mobile"</pre>
{...setValue("mobile",stud.mobile)} {...register("mobile")}/>
          </div>
          <div class="mb-3">
            <input type="text" class="form-control" placeholder="Email"</pre>
{...setValue("email", stud.email)} {...register("email")}/>
          </div>
         <div class="mb-3 text-center">
          <input type="submit" class="btn btn-outline-success" value="Update"/>
         </div>
         </form>
        </div>
    </div>
   </>)
export default EditStudent
```



#### FormValidation:

**formState**: This object contains information about the entire form state. It helps you to keep on track with the user's interaction with your form application.

errors: is an object with errors field.

To read error message of field : {errors.fieldname?.message}

#### Student.js

```
import axios from 'axios';
import React from 'react'
import { useForm } from 'react-hook-form'
function Student() {
  const {register,handleSubmit,reset,formState:{errors}}=useForm()
 function getRegisterStudent(studObj){
        console.log(studObj);
        axios.post("http://127.0.0.1:8090/student",studObj)
        reset()
  }
  return (
    <div className='row'>
        <div className='col-md-3'>
          <h1 className='text-primary'>Register Student</h1>
          <form onSubmit={handleSubmit(getRegisterStudent)}>
          <div class="mb-3">
            <input type="text" class="form-control" placeholder="Firstname"</pre>
{...register("firstname",
            {required:"This field is Required!"}) } />
            <h6>{errors.firstname?.message}</h6>
          </div>
          <div class="mb-3">
            <input type="text" class="form-control" placeholder="Lastname"</pre>
{...register("lastname",
            {required:"This field is Required!" ,
              minLength:{
                  value:3,
                  message: " Min 3 chars Allowed!"
              },
              maxLength:{
                value:15,
                message: "Max 15 chars Allowed!"
              }
            })} />
            <h6>{errors.lastname?.message}</h6>
          </div>
          <div class="mb-3">
```



```
<input type="text" class="form-control"</pre>
placeholder="Mobile" {...register("mobile",
            {required:"This field is Required!",
              pattern:{
                  value:/^[6789]{1}[0-9]{9}$/,
                  message:"Invalid Mobile Number!"
              }
            } )} />
            <h6>{errors.mobile?.message}</h6>
          <div class="mb-3">
            <input type="text" class="form-control" placeholder="Email"</pre>
{...register("email")} />
          </div>
          <div class="mb-3 text-center">
            <input type="submit" class="btn btn-outline-success" />
          </div>
          </form>
        </div>
    </div>
export default Student
```

a distant