

Mvc – curd operation: prepared by Gowthaman

React File:

```
import { useState } from "react"
import axios from 'axios'
function App()
{
  const[rno,setRno]=useState("")
  const[sname,setSname]=useState("")
  const[mark,setMark]=useState("")
  const [oper,setOper]=useState("")
  const [list,setList]=useState(null)
  const dboperation=()=>>{
    if(oper==="Insert")
    {
      const url="http://localhost:9111"

      var
sobj={rno:rno,sname:sname,mark:mark}
      axios.get(url,{params:sobj}).then((res)=>
{
        console.log(res)
        setList(res.data)
      }).catch((err)=>{
        console.log(err)
        setList(err)
      });
    }
  }
```

```
    if(oper==="Delete")
    {

const url="http://localhost:9112"

var subj1={rno:rno}
    axios.get(url,{params:subj1}).then((res)=
>{
        console.log(res)
        setList(res.data)
    }).catch((err)=>{
        console.log(err)
        setList(err)
    });
}
    if(oper==="Search")
    {
        //-----search-----
-----
const url="http://localhost:9113"
var subj2={rno:rno}
    axios.get(url,{params:subj2}).then((res)=
>{
        console.log(res)
        setList(res.data)
    }).catch((err)=>{
        console.log(err)
        setList(err)
    });
}
```

```
    }  
  }  
  const dis=(event)=>{  
    if (event.target.id==="t1")  
      setRno(event.target.value)  
    if (event.target.id==="t2")  
      setSname(event.target.value)  
    if (event.target.id==="t3")  
      setMark(event.target.value)  
  
  }  
  const show=(e)=>{  
    setOper(e.target.id)  
    if (e.target.id==="Insert")  
    {  
      document.getElementById("t1").style.visibility="visible"  
      document.getElementById("t2").style.visibility="visible"  
      document.getElementById("t3").style.visibility="visible"  
    }  
    else if(e.target.id==="Delete" ||  
e.target.id==="Search")  
    {  
      document.getElementById("t1").style.visibility="visible"
```

```
        document.getElementById("t2").style.visibility="hidden"
        document.getElementById("t3").style.visibility="hidden"
    }
}
```

```
return(<>
    <input type="radio" name="dboper"
id="Insert"
onChange={(e)=>show(e)}></input>Insert
    <input type="radio" name="dboper"
id="Delete"
onChange={(e)=>show(e)}></input>Delete
    <input type="radio" name="dboper"
id="Search"
onChange={(e)=>show(e)}></input>Search
    <br></br>

    <input type="text"  onChange={(e)=>dis(e)}
value={rno}  id="t1"
placeholder="Rno"></input><br></br>
    <input type="text"  onChange={(e)=>dis(e)}
value={sname} id="t2"
placeholder="Sname"></input><br></br>
    <input type="text"  onChange={(e)=>dis(e)}
value={mark} id="t3"
placeholder="Mark"></input><br></br>
```

```

    <input type="button" onClick={dboperation}
value="Submit"></input>
    <br></br>
    {(oper!==" " && "Database Work :"+oper) ||
    "Nothing Selected"}
    <br></br>
    {list!==null && oper==="Insert" &&
list.acknowledged===true &&
    <div id="sres">
    Successfully Inserted:{list.insertedId}
    </div>}
    <br></br>
    {list!==null && oper==="Delete" &&
list.acknowledged===true &&
    <div id="sres">
    {list.deletedCount>0 ? "Successfully
Deleted" : " Not Found" }
    </div>}
<br></br>
    {list!==null && oper==="Search" &&
    <div id="sres">
    Student Name:{list.sname}
    <br></br>
    Student Mark:{list.mark}
    </div>}

</>)
}
export default App

```

Node File: mvc.js (insert)

```
var http=require("http")
var url=require("url")
var mydb=require("./mvcdb")

http.createServer(async (req,res)=>{

res.setHeader('Access-Control-Allow-Origin',
'*'); /* @dev First, read about security */
res.setHeader('Access-Control-Allow-Methods',
'OPTIONS,GET');
res.setHeader('Access-Control-Max-Age',
2592000); // 30 days


    var path=url.parse(req.url,true)
    console.log(path)
    var ans1=path.query
    console.log(ans1)
    var
final=JSON.parse(JSON.stringify(ans1))
    console.log(final)

    try
    {
        res.writeHead(200,{ 'Content-
Type': 'application/json'})
        var result=await mydb.insfun(final)
```

```

        console.log("model to
controller:",result)
        var
finres=JSON.parse(JSON.stringify(result))
        res.write(finres) // controller to
view
    }
    catch{
        console.log("error")
    }
    finally{
        res.end() // must give,otherwise
donot move contr...to view
    }

}).listen(9111)
console.log("port listending at
9111.....")

```

model file: mvcdb.js (databae)

```

var {MongoClient}=require("mongodb")
var client=new
MongoClient("mongodb://127.0.0.1:27017/")

async function insfun(inpdata)
{
    console.log("model:",inpdata)
}

```

```

    try{
const dataset=await
client.db("student").collection("details").insertOne(inpdata)
console.log("model dataset:",dataset)
return JSON.stringify(dataset) //send to controller
    }
    catch{
        console.log("model error")
        await client.close()
    }
}
module.exports={insfun}

```

mvc1.js (delete)

```

var http=require("http")
var url=require("url")
var mydb=require("./mvcdb1")

http.createServer(async (req,res)=>{

res.setHeader('Access-Control-Allow-Origin',
'*'); /* @dev First, read about security */
res.setHeader('Access-Control-Allow-Methods',
'OPTIONS,GET');

```



```
res.setHeader('Access-Control-Max-Age',
2592000); // 30 days

    var path=url.parse(req.url,true)
    console.log(path)
    var ans1=path.query
    console.log(ans1)
    var
final=JSON.parse(JSON.stringify(ans1))
    console.log(final)

    try
    {
        res.writeHead(200,{ 'Content-
Type': 'application/json'})
        var result=await mydb.delfun(final)
        console.log("model to
controller:",result)
        var
finres=JSON.parse(JSON.stringify(result))
        res.write(finres) // controller to
view
    }
    catch{
        console.log("error")
    }
    finally{
```

```

        res.end() // must give, otherwise
donot move contr...to view
    }

}).listen(9112)
console.log("port listending at
9112.....")

```

mvcdb1.js

```

var {MongoClient}=require("mongodb")
var client=new
MongoClient("mongodb://127.0.0.1:27017/")

async function delfun(inpdata)
{
    console.log("model:",inpdata)
    try{
const dataset=await
client.db("student").collection("details").de
leteOne(inpdata)
console.log("model dataset:",dataset)
return JSON.stringify(dataset) //send to
controller
    }
    catch{
        console.log("model error")
        await client.close()
    }
}

```

```
    }  
  }  
  module.exports={delFun}
```

mvc2.js

```
var http=require("http")  
var url=require("url")  
var mydb=require("./mvcdb2")  
  
http.createServer(async (req,res)=>{  
  
  res.setHeader('Access-Control-Allow-Origin',  
    '*'); /* @dev First, read about security */  
  res.setHeader('Access-Control-Allow-Methods',  
    'OPTIONS,GET');  
  res.setHeader('Access-Control-Max-Age',  
    2592000); // 30 days  
  
    var path=url.parse(req.url,true)  
    console.log(path)  
    var ans1=path.query  
    console.log(ans1)  
    var  
final=JSON.parse(JSON.stringify(ans1))  
    console.log(final)
```

```

    try
    {
        res.writeHead(200,{ 'Content-
Type': 'application/json'})
        var result=await mydb.serfun(final)
        console.log("model to
controller:",result)
        var
finres=JSON.parse(JSON.stringify(result))
        res.write(finres) // controller to
view
    }
    catch{
        console.log("error")
    }
    finally{
        res.end() // must give,otherwise
donot move contr...to view
    }

}).listen(9113)
console.log("port listending at
9113.....")

```

mvcdb2.js

```

var {MongoClient}=require("mongodb")

```

```
var client=new
MongoClient("mongodb://127.0.0.1:27017/")

async function serfun(inpdata)
{
    console.log("model:",inpdata)
    try{
const dataset=await
client.db("student").collection("details").fi
ndOne(inpdata)
console.log("model dataset:",dataset)
return JSON.stringify(dataset) //send to
controller
    }
    catch{
        console.log("model error")
        await client.close()
    }
}

module.exports={serfun}
```