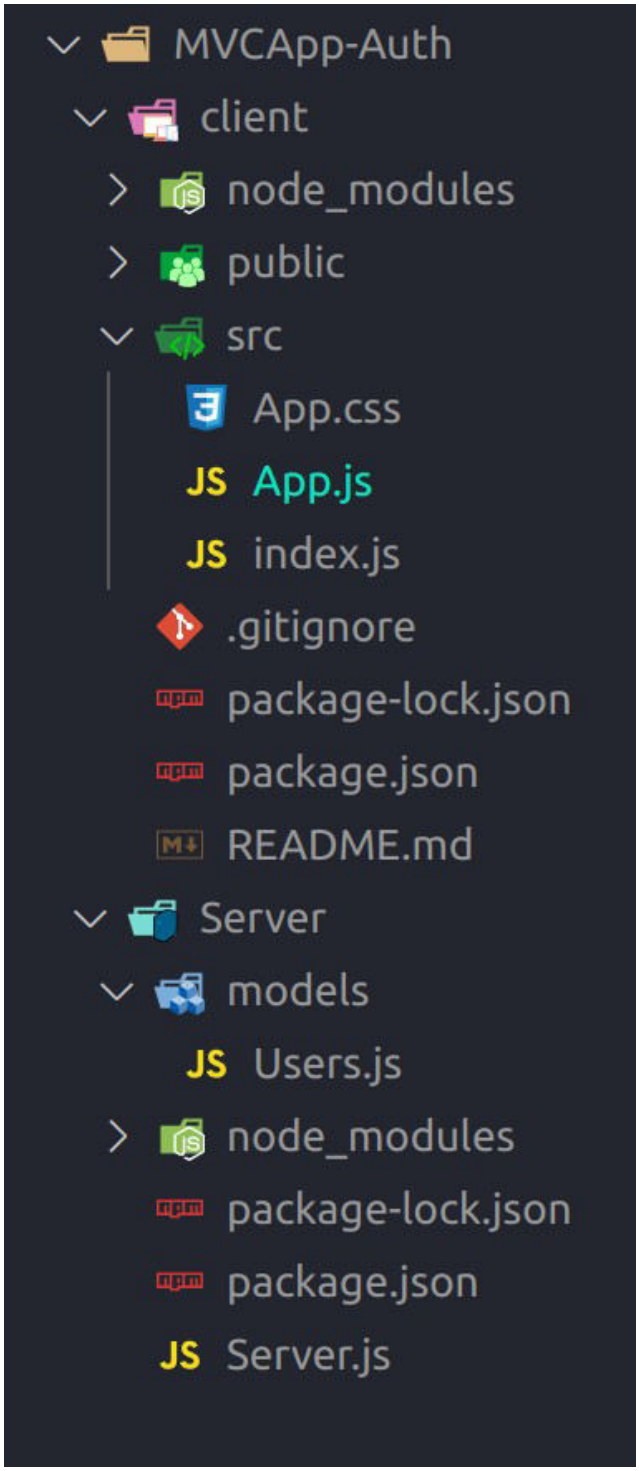
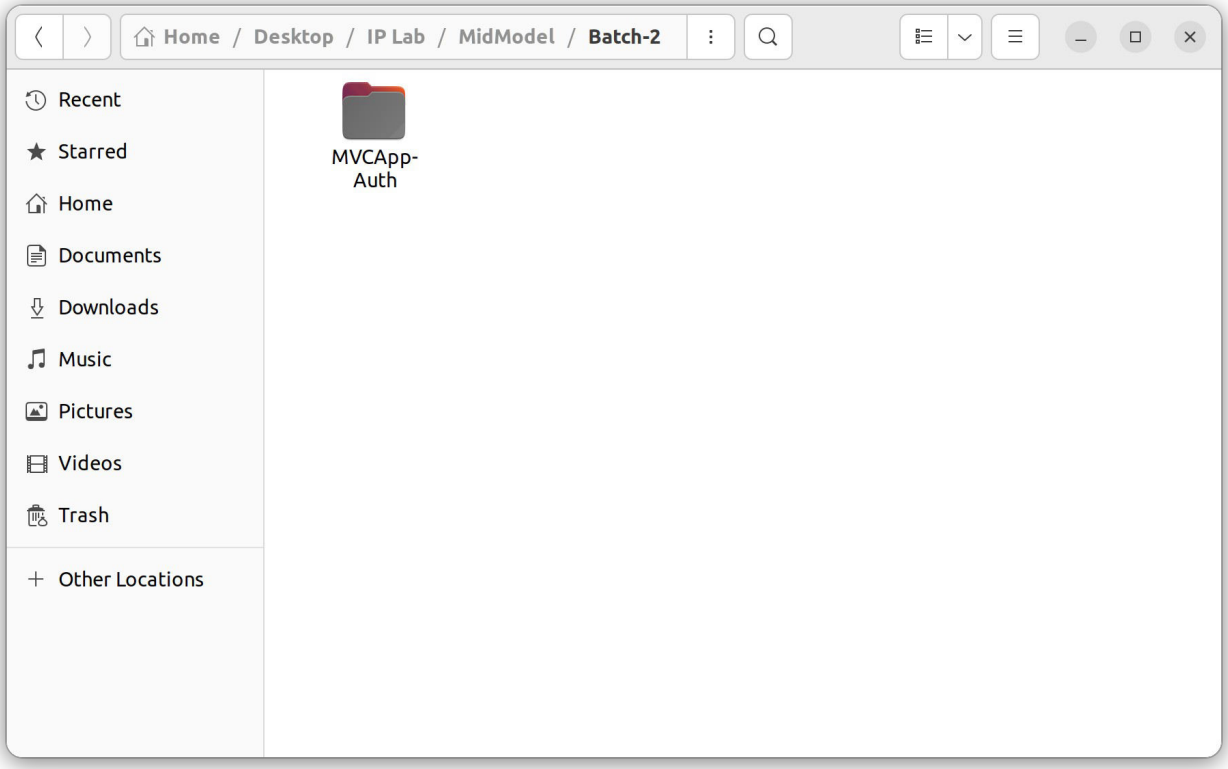
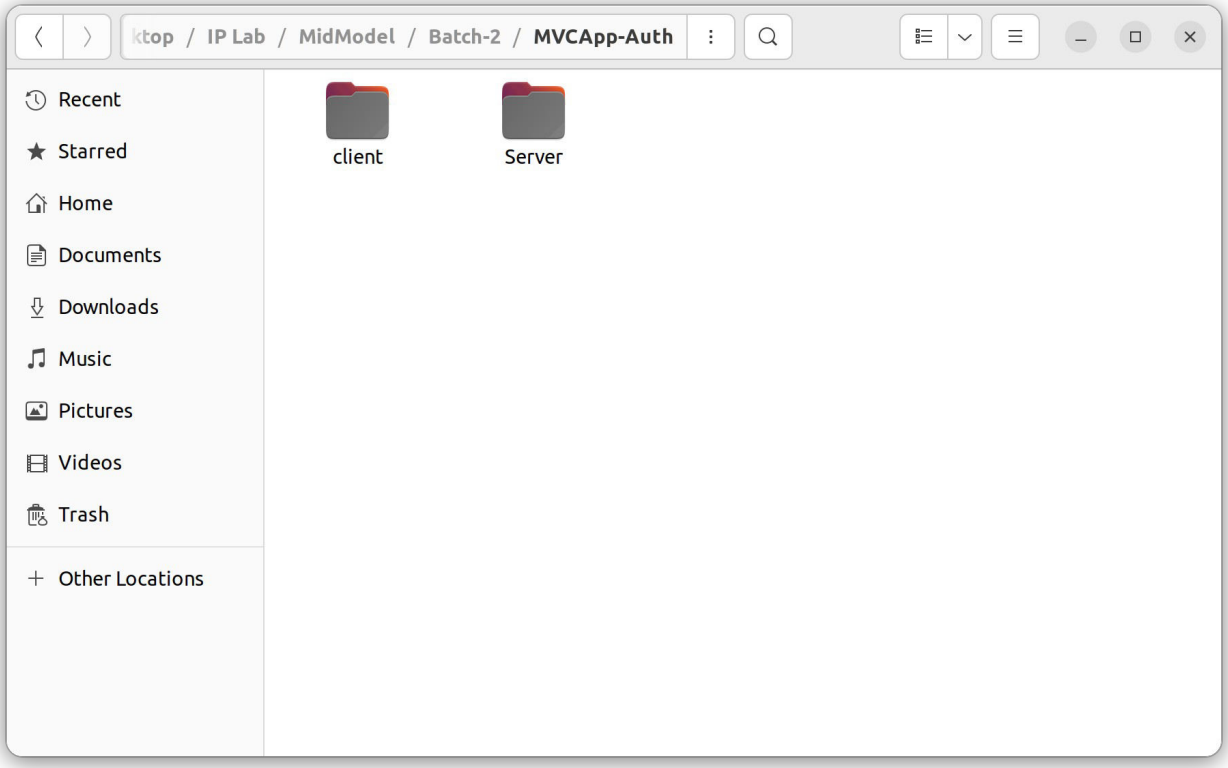
Mid Model Exam
MVC Architecture

Structure:




Home / Desktop / IP Lab / MidModel / Batch-2
Recent
Starred
Home
Documents
Downloads
Music
Pictures
Videos
Trash
Other Locations
MVCApp-Auth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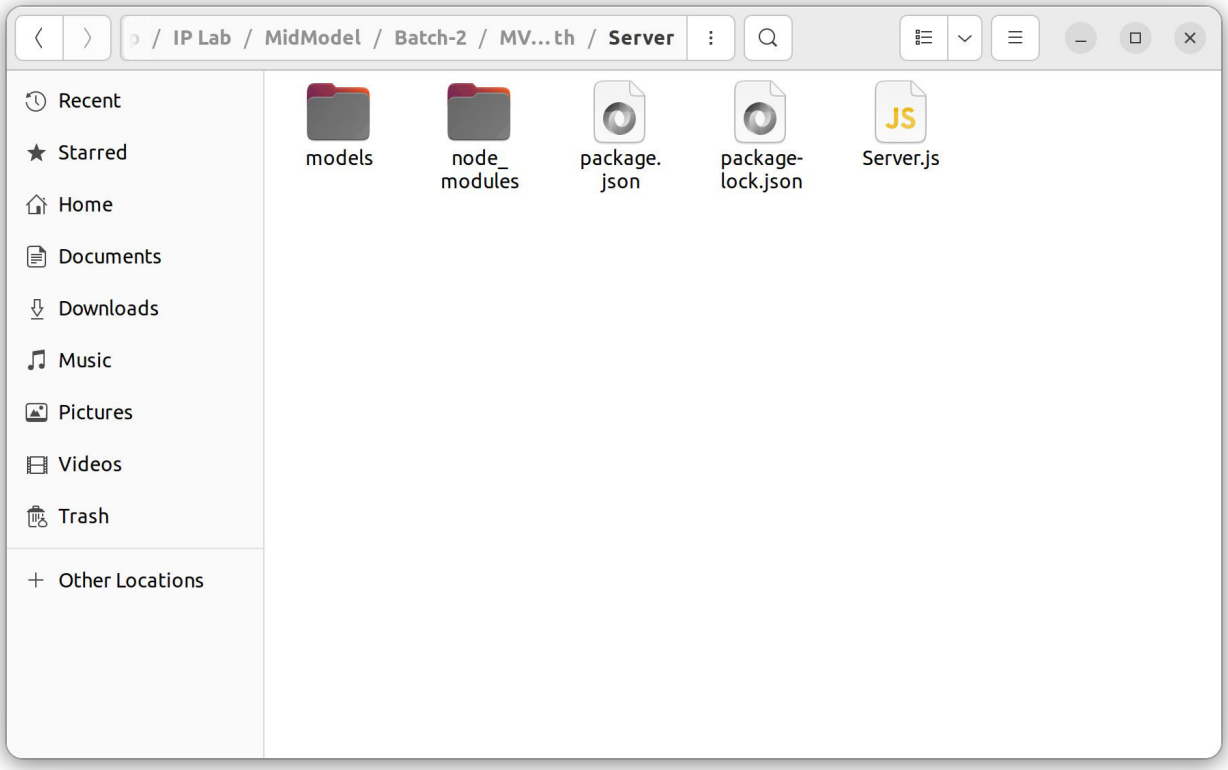
Videos
Trash
Other Locations
client
Server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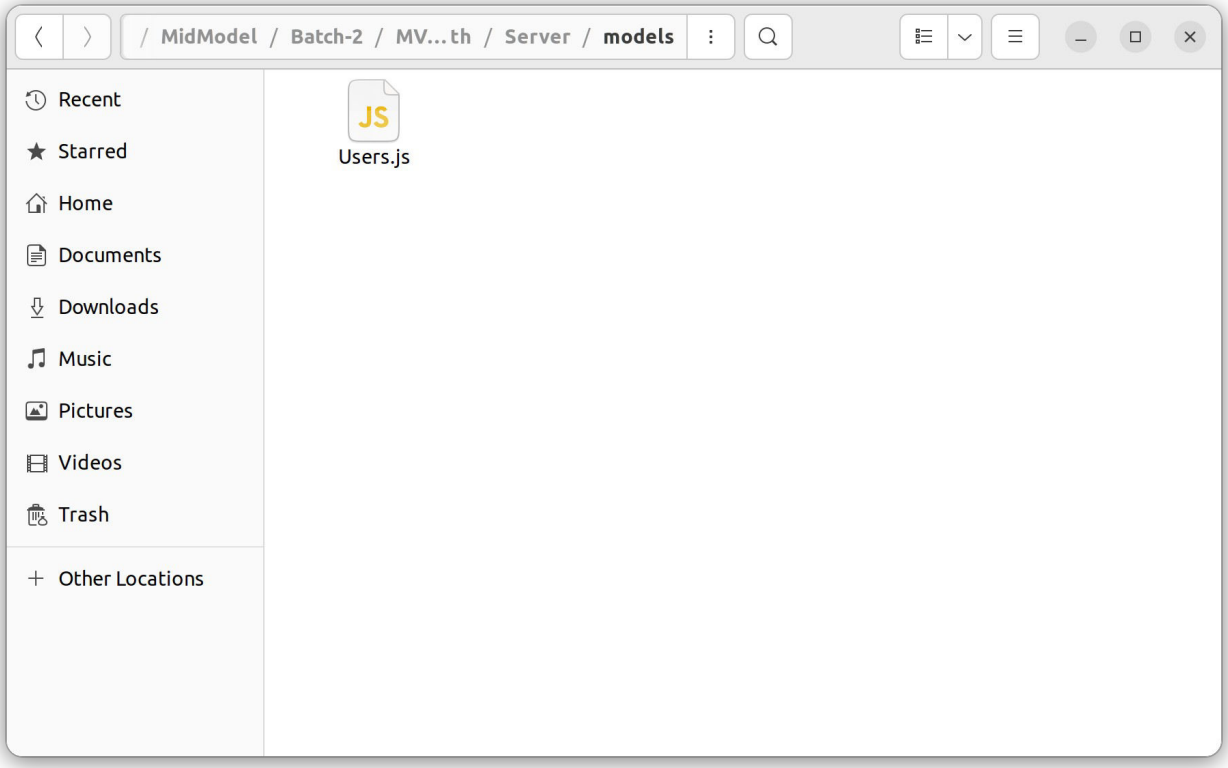
Trash
Other Locations
models
node_ modules
package. json
package- lock.json
JS
Server.js


/ MidModel / Batch-2 / MV...th / Server / models
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Home
Documents
Downloads
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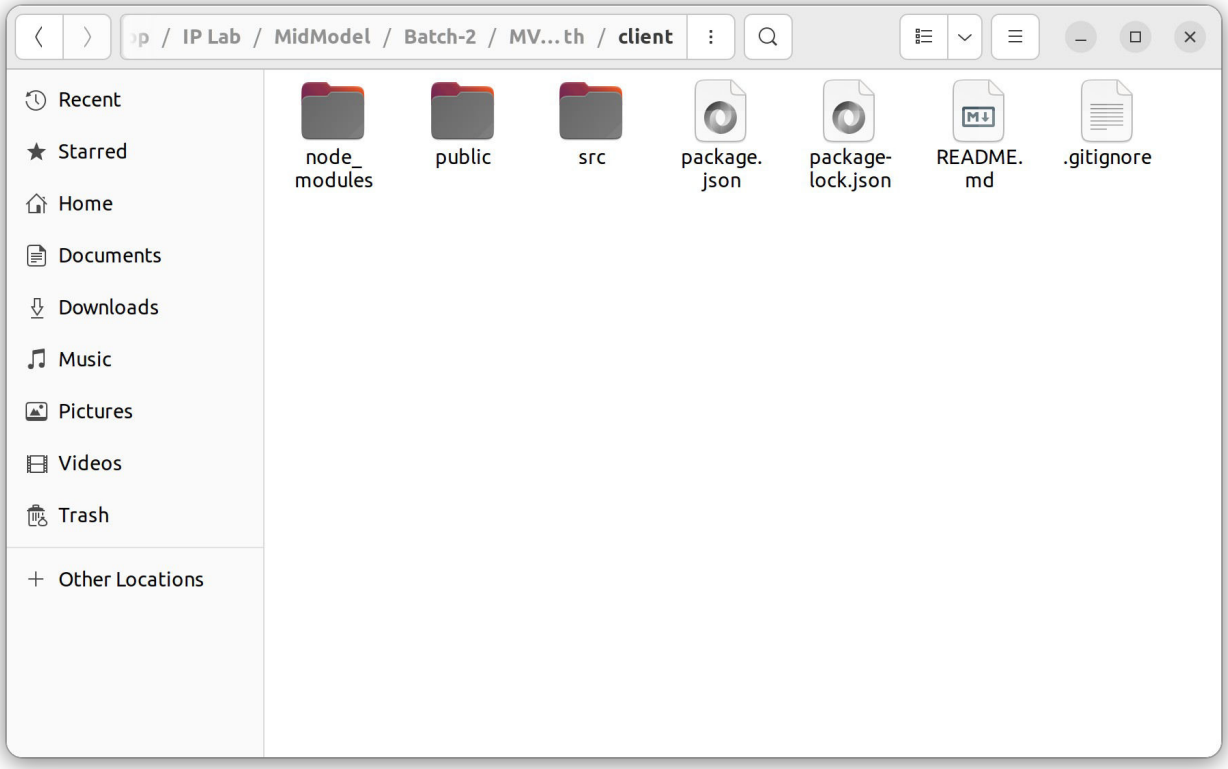
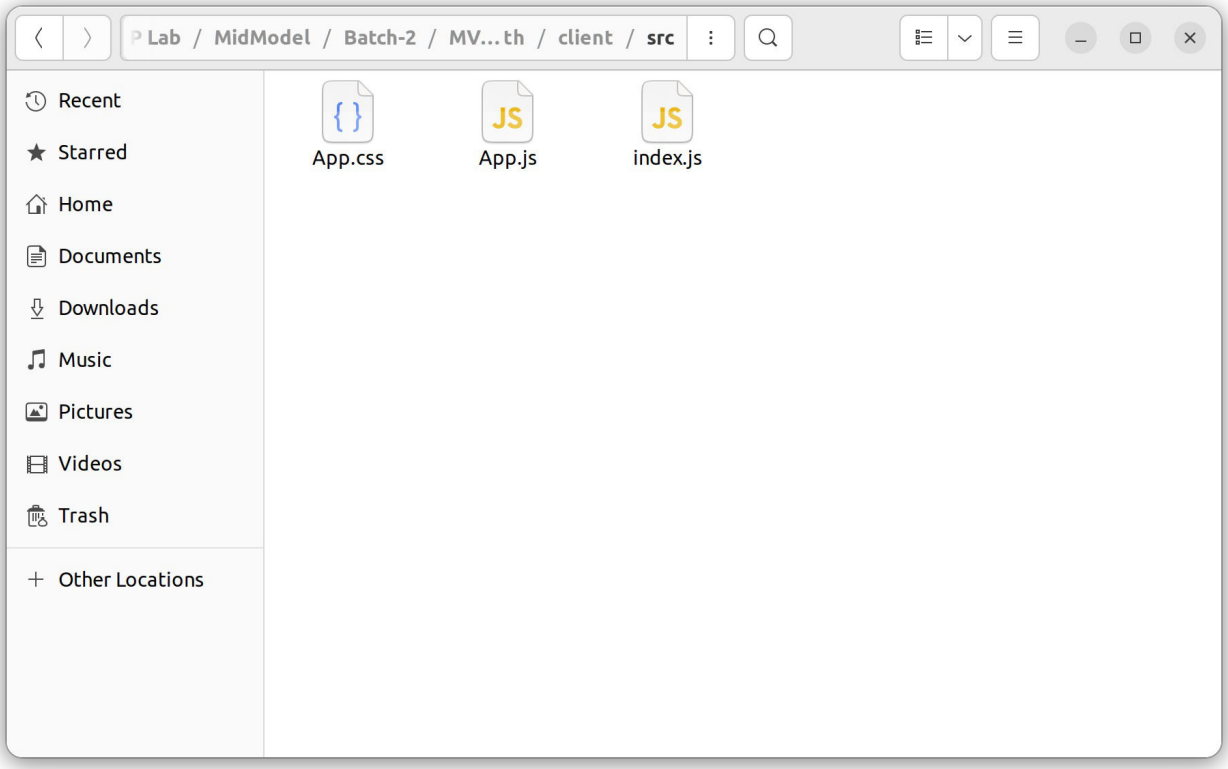
Pictures
Videos
Trash
Other Locations
JS
Users.js


p / IP Lab / MidModel / Batch-2 / MV...th / client
Recent
Starred
Home
Documents
Downloads
Music
Pictures
Videos
Trash
Other Locations
node_modules
public
src
package.json
package-lock.json
README.md
.gitignore


Lab / MidModel / Batch-2 / MV...th / client / src
Recent
Starred
Home
Documents
Downloads
Music
Pictures
Videos
Trash
Other Locations
App.css
App.js
index.js

Program code:

Users.js

```
const mongoose = require("mongoose");

const UserSchema = new mongoose.Schema({
   username: String
});

const UserModel = mongoose.model("users",UserSchema);
module.exports = UserModel;
```

Server.js

```
const mongoose = require("mongoose");
const express = require("express");
const cors = require("cors");
const UserModel = require("./models/Users.js");

const app = express();
app.use(cors());
app.use(express.json());


mongoose.connect("mongodb://localhost:27017/info");


app.post("/send", (req, res) => {
   const data = req.body.username;
   console.log(data);
   UserModel.findOne({ username: data })
      .then(result => res.json(result))
      .catch(err => console.log(err))
})

app.post("/insert", (req, res) => {
   const data = req.body.username;
   console.log(data);
   UserModel.create({ username: data })
      .then(result => {
         console.log(result)
         res.json(result)
      })
      .catch(err => console.log(err))
})


app.post("/delete", (req, res) => {
   const data = req.body.username;
   console.log(data);
```

```
    UserModel.deleteOne({ username: data })
        .then(result => {
            console.log(result)
            res.json(result)
        })
        .catch(err => console.log(err))
})


app.listen(3001, () => {
    console.log("Server listening on PORT 3001");
})
```

App.js

```
import { useState } from 'react';
import axios from 'axios';
import "./App.css"

export default function App(){
    let [name,setName] = useState("");
    let [display,setDisplay] = useState("");

    function sendData(){
        console.log("Sending Data....");
        axios.post("http://127.0.0.1:3001/send",{username:name})
        .then(res => (setDisplay(res.data?.username || "Not Found")))
        .catch(err => console.log(err))
    }

    function insertData(){
        console.log("Inserting Data....");
        axios.post("http://127.0.0.1:3001/insert",{username:name})
        .then(res => console.log(res))
        .catch(err => console.log(err))
    }

    function deleteData(){
        console.log("Deleting Data....");
        axios.post("http://127.0.0.1:3001/delete",{username:name})
        .then(res => console.log(res))
        .catch(err => console.log(err))
    }

    return(
        <div className='App'>
            <h1>MVC Architecture</h1>
            <input type='text' placeholder='Enter Name' onChange={(e) => setName(e.target.value)}
style={{display:"block",margin:"auto"}}></input>
            <button onClick={sendData} style={{margin:"15px"}}>Search</button>
            <button onClick={insertData} style={{margin:"15px"}} >Insert</button>
            <button onClick={deleteData} style={{margin:"15px"}} >Delete</button>
```

```
            <h2>{display !== "Not Found" ? display + " is Present " : "User not found"}</h2>
        </div>
    )

}
```

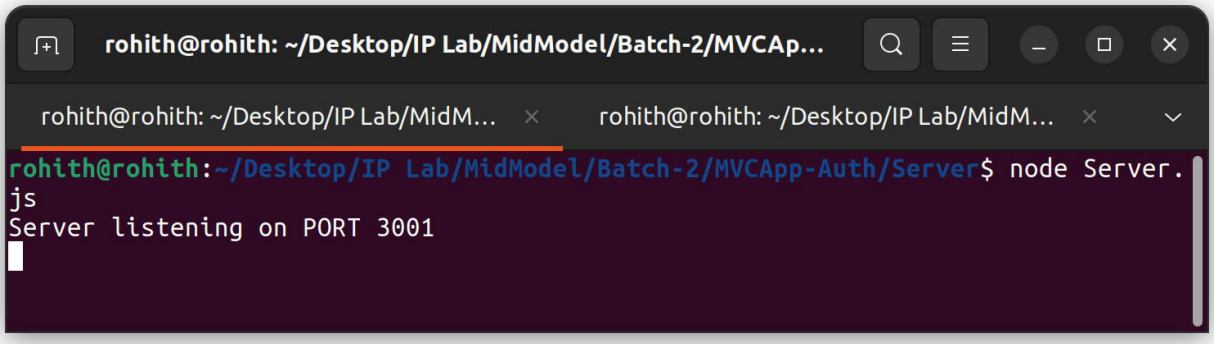
App.css

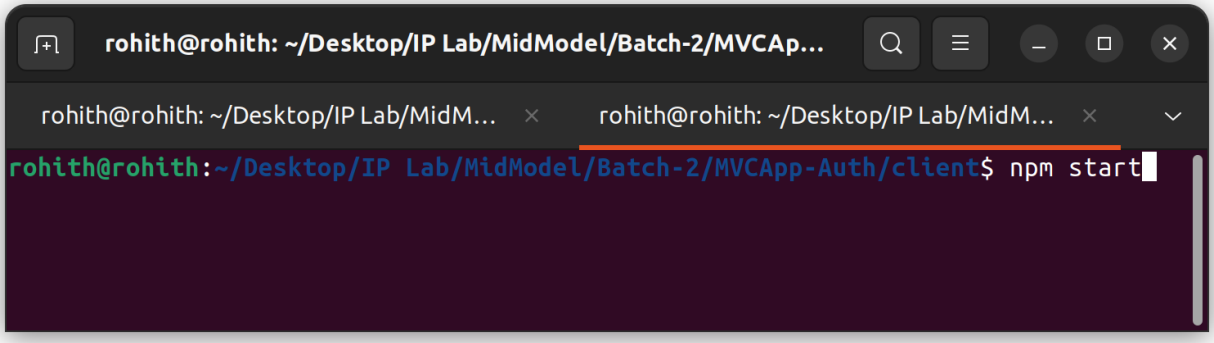
```
.App {
  text-align: center;
}
```

index.js

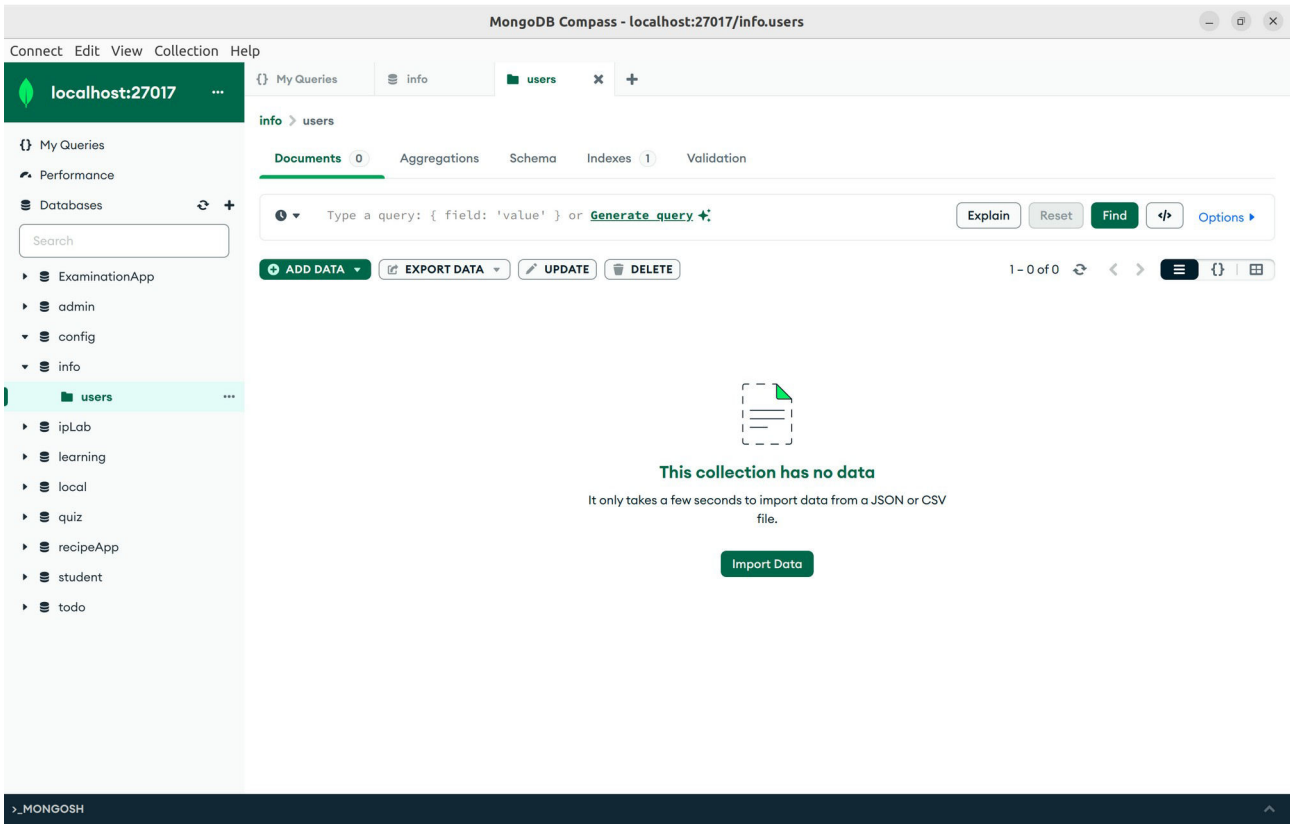
```
import React from 'react';
import ReactDOM from 'react-dom/client';
import App from './App';

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

Output:

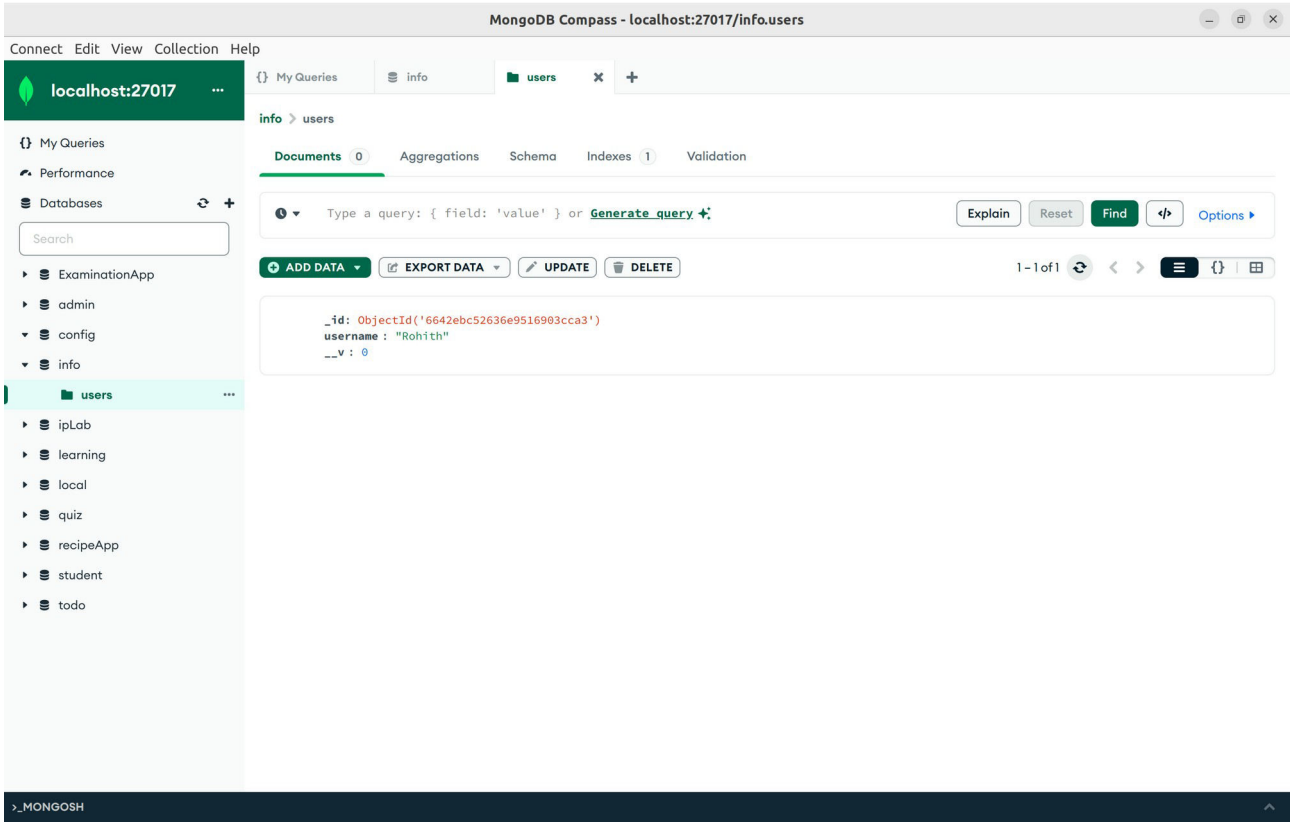




React App
localhost:3000
MVC Architecture
Enter Name
Search
Insert
Delete
is Present


MongoDB Compass - localhost:27017/info.users
Connect Edit View Collection Help
localhost:27017
My Queries
Performance
Databases
Search
ExaminationApp
admin
config
info
users
ipLab
learning
local
quiz
recipeApp
student
todo
My Queries
info
users
info > users
Documents 0
Aggregations
Schema
Indexes 1
Validation
Type a query: { field: 'value' } or Generate query
Explain
Reset
Find
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
1 - 0 of 0
This collection has no data
It only takes a few seconds to import data from a JSON or CSV file.
Import Data
>_MONGOSH

React App
localhost:3000
MVC Architecture
Rohith
Search
Insert
Delete
is Present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Documents 0
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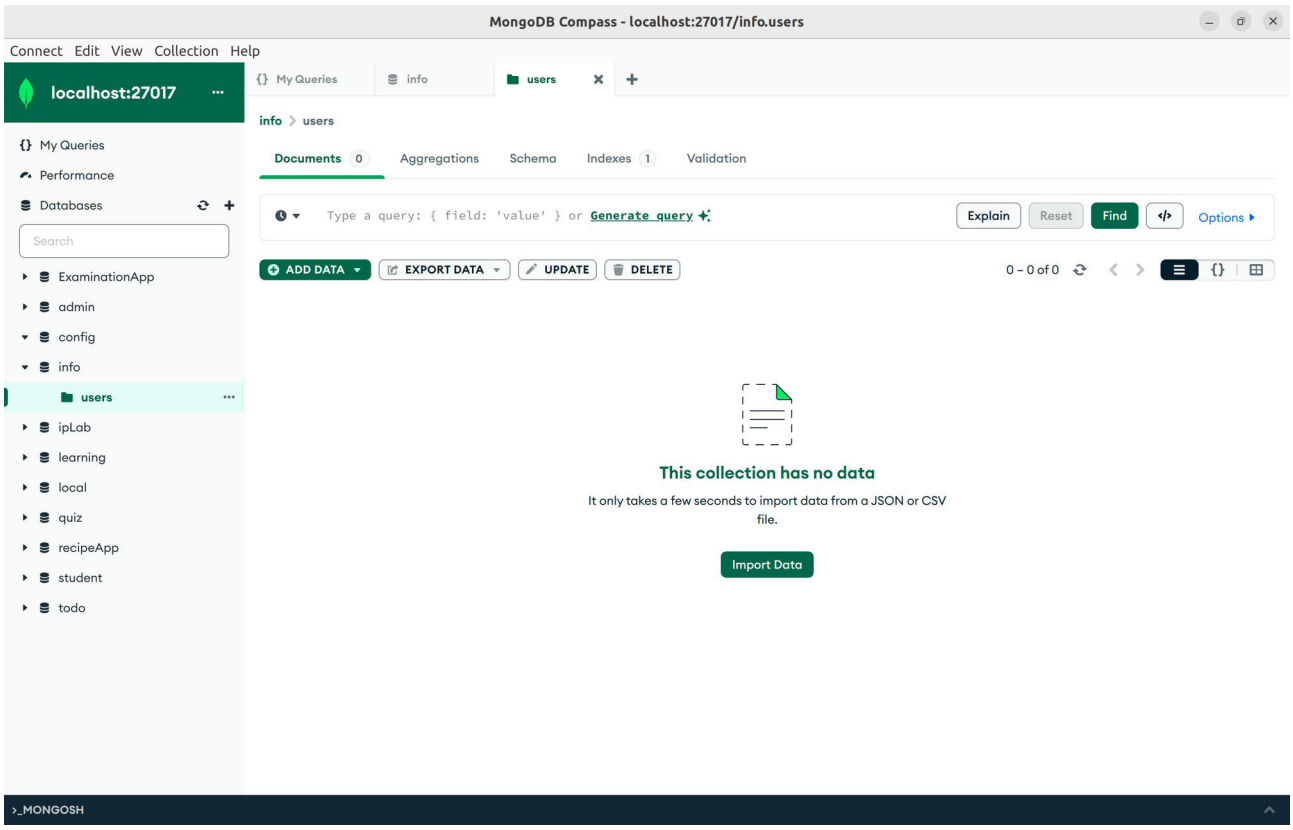
Options
ADD DATA
EXPORT DATA
UPDATE
DELETE
1 - 1 of 1
_id: ObjectId('6642ebc52636e9516903cca3')
username : "Rohith"
__v : 0
>_MONGOSH

React App
localhost:3000
MVC Architecture
Rohith
Search
Insert
Delete
Rohith is Present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React App
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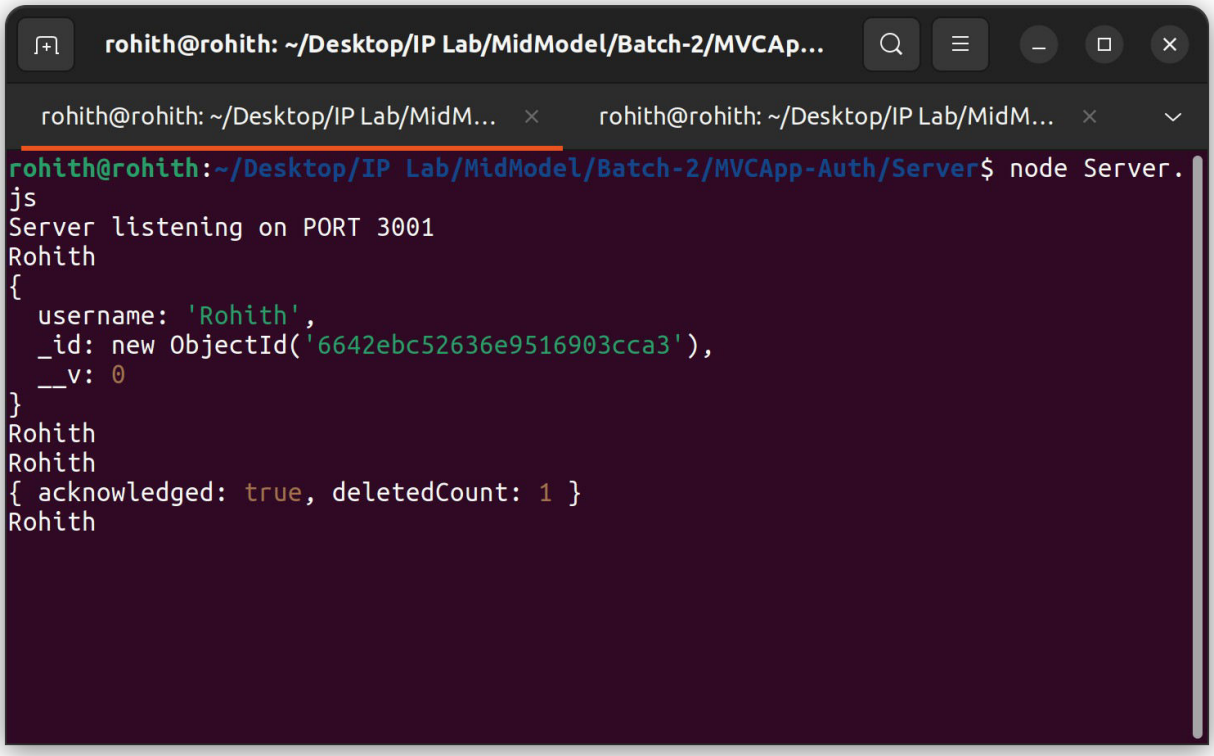
MVC Architecture
Rohith
Search
Insert
Delete
User not found


rohith@rohith: ~/Desktop/IP Lab/MidModel/Batch-2/MVCAp...
rohith@rohith: ~/Desktop/IP Lab/MidM...
rohith@rohith: ~/Desktop/IP Lab/MidM...
rohith@rohith:~/Desktop/IP Lab/MidModel/Batch-2/MVCApp-Auth/Server$ node Server.
js
Server listening on PORT 3001
Rohith
{
username: 'Rohith',
_id: new ObjectId('6642ebc52636e9516903cca3'),
__v: 0
}
Rohith
Rohith
{ acknowledged: true, deletedCount: 1 }
Rohith