



SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)



DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE CODE: DJS22ITL307

DATE: 05/11/2023

COURSE NAME: Web Programming Laboratory

CLASS:SY. BTech

DEPARTMENT OF INFORMATION TECHNOLOGY

NAME: Ayush Vinod Upadhyay
ROLL NO: I025
SAP ID: 60003220131
BRANCH: Information Technology
BATCH: 1

EXPERIMENT NO. 10

CO/LO: Develop web applications.

AIM / OBJECTIVE: Program based on inbuilt functions in Node.js.

BACKEND

Index.js

```
const express = require('express');
const Users = require('./models/users');
const cors = require('cors');

require('./models/config');
const app = express();
app.use(express.json());
app.use(cors());

app.post("/signup", async (req, res) => {
  let data = new Users(req.body);
  let result = await data.save();
  result = result.toObject();
  delete result.password;
  if (result) {
    if (err) {
      res.send({ result: "Something went wrong, Please tryagain later" })
    }
    res.send({ result, auth: token });
  }
});

app.post("/login", async (req, res) => {
```



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```
if (req.body.password && req.body.email) {
  let user = await Users.findOne(req.body).select("-password");
  if (user) {
    if (err) {
      res.send({ result: "Something went wrong, Please tryagain later" })
    }
    res.send({ user, auth: token });
  }
  else {
    res.send({ result: "No User found" })
  }
}
else {
  res.send({ result: "No User found" })
}
});

app.listen(3000);
```

models/config.js

```
const mongoose = require('mongoose');
mongoose.connect("mongodb+srv://gofood:mern123@cluster0.otuonrs.mongodb.net/gofoodmern?retryWrites=true&w=majority");
```

models/Users.js

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

const userSchema = new mongoose.Schema({
  name:String,
  email:String,
  password:String
});

module.exports= mongoose.model('users',userSchema);
```



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FRONTEND

\src\App.js

```
import './App.css';
import Nav from './Components/Nav';
import SignUp from './Components/SignUp';
import PrivateComponent from './Components/PrivateComponent';
import { BrowserRouter, Routes, Route } from 'react-router-dom';
import Login from './Components/Login';

function App() {
  return (
    <div className="App">
      <BrowserRouter>
        <Nav/>
        <Routes>
          <Route element={ <PrivateComponent /> } >
            <Route path="/" element={ <Home /> } />
          </Route>
          <Route path="/signup" element={ <SignUp /> } />
          <Route path="/login" element={ <Login /> } />
        </Routes>
      </BrowserRouter>
    </div>
  );
}

export default App;
```



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src\components\SignUp.js

```
import React,{useState, useEffect} from "react";
import { useNavigate } from "react-router-dom"; //used to redirect after signup

const SignUp = () =>{

  const navigate=useNavigate(); //imp to use with navigate
  useEffect(() => { //very imp to note
    const auth = JSON.parse(localStorage.getItem("user"));
    if (auth) {
      navigate("/");
    }
  }, []);

  const [name, setName]=useState("");
  const [email, setEmail]=useState("");
  const [password, setPassword]=useState("");

  const collectData =async () =>{
    console.warn(name,email,password);
    let result = await fetch("http://localhost:3000/signup",{
      method:'post',
      body:JSON.stringify({name,email,password}),
      headers:{
        'Content-Type':'application/json'
      }
    });
    result= await result.json();
    console.warn(result);
    localStorage.setItem("user",JSON.stringify(result)); //storing data locally in browser
    if(result)
    {
      navigate('/');
    }
  }

  return(
    <div className="registerContainer">
```



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```
<div className="register">
  <h1>REGISTER</h1>
  <input
    className="inputBox"
    value={name}
    onChange={(e) => setName(e.target.value)}
    type="text"
    placeholder="Enter name"
  />
  <input
    className="inputBox"
    value={email}
    onChange={(e) => setEmail(e.target.value)}
    type="text"
    placeholder="Enter email"
  />
  <input
    className="inputBox"
    value={password}
    onChange={(e) => setPassword(e.target.value)}
    type="password"
    placeholder="Enter password"
  />
  <button
    className="signupbutton"
    type="button"
    onClick={collectData}
  >
    SignUp
  </button>
</div>
</div>
)
}
export default SignUp;
```



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src\components\Login.js

```
import React, { useState, useEffect } from "react";
import { useNavigate } from "react-router-dom";

const Login = () => {
  const navigate = useNavigate();

  useEffect(() => {
    const auth = JSON.parse(localStorage.getItem("user"));
    if (auth) {
      navigate("/");
    }
  }, [navigate]);

  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");

  const handleLogin = async () => {
    console.warn(email, password);

    try {
      const response = await fetch("http://localhost:3000/login", {
        method: "post",
        body: JSON.stringify({ email, password }),
        headers: {
          "Content-Type": "application/json",
        },
      });

      if (!response.ok) {
        throw new Error("Login failed"); // Handle non-200 status codes
      }

      const result = await response.json();
      console.warn(result);

      if (result.name) {
        localStorage.setItem("user", JSON.stringify(result));
      }
    }
  };
}
```



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```
        navigate("/");
    } else {
        alert("Enter correct password/username");
    }
} catch (error) {
    console.error("Error during login:", error.message);
    alert("Login failed. Please try again later.");
}
};

return (
    <>
    <h1>LOGIN</h1>
    <div className="login">
        <input
            className="inputBox"
            type="text"
            value={email}
            onChange={(e) => setEmail(e.target.value)}
            placeholder="Enter Email"
        />
        <input
            className="inputBox"
            type="password" // Change the input type to 'password'
            value={password}
            onChange={(e) => setPassword(e.target.value)}
            placeholder="Enter Password"
        />
    </div>
    <button className="loginbutton" type="button" onClick={handleLogin}>
        LOGIN
    </button>
    </>
);
};

export default Login;
```



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ShopNest | [Login](#) | [Sign Up](#)

REGISTER

Enter name

Enter email

Enter password

SignUp

ShopNest | [Login](#) | [Sign Up](#)

LOGIN

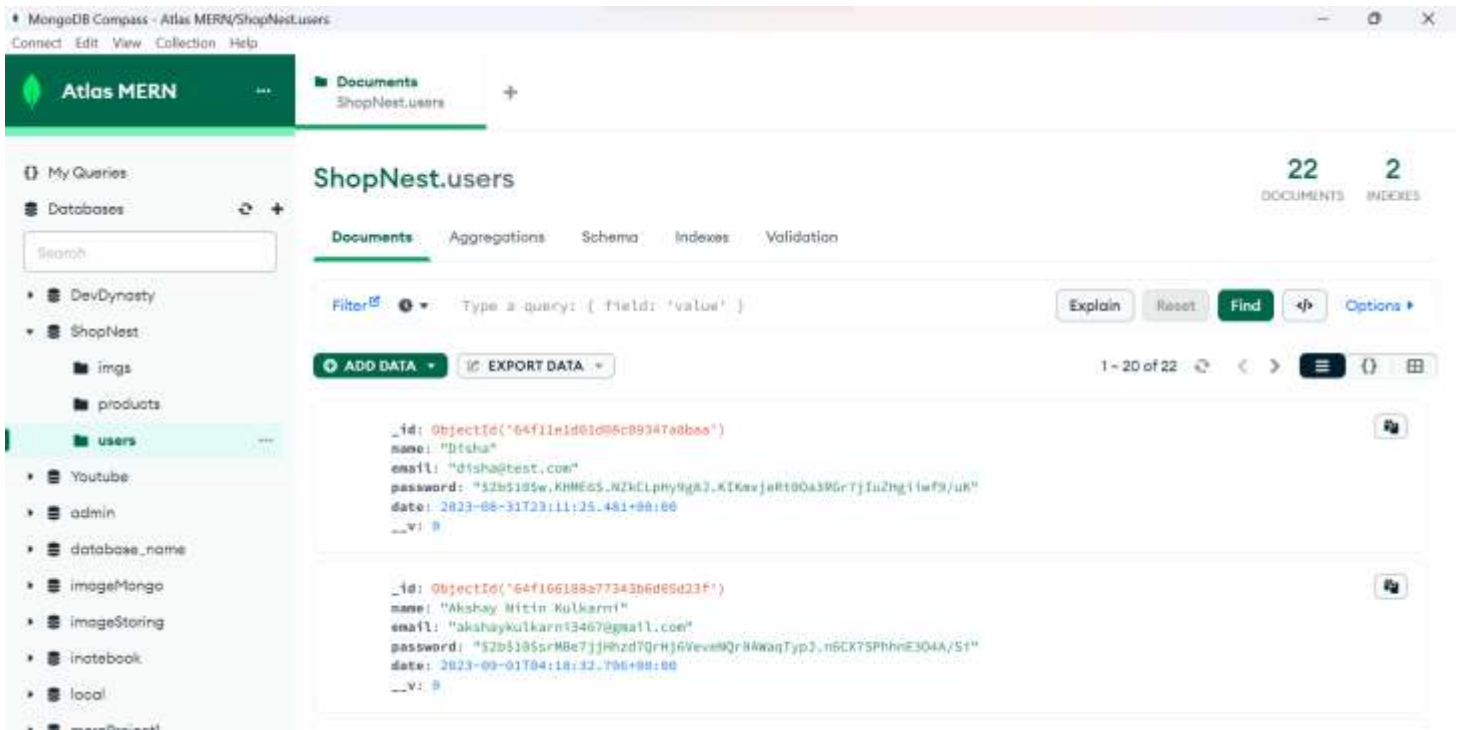
Enter Email

Enter Password

LOGIN UP



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**COURSE CODE: DJS22ITL307****DATE: 05/11/2023****COURSE NAME: Web Programming Laboratory****CLASS:SY. BTech****BOOKS AND WEB RESOURCES:**

1. Tailwind CSS From Scratch | Learn By Building Projects by Brad Traversy
2. Tailwind CSS: A Modern Way To Build Websites Using CSS

CONCLUSION: I learnt to integrate mongoDB with frontend and backend and successfully created and integrated sign up and login api.