# Exercise 8 - NodeJS

Registration Number: 18BCE0503

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Note: Performed Activity using MEAN Stack

#### **Node Code**

```
var express = require("express");
var validator = require('validator');
app = express();
app.use(express.json());
bodyparser = require("body-parser");
mongoose = require("mongoose");
var cors = require('cors')
app.use(cors())
mongoose.connect("mongodb://localhost:27017/mydb", {
 useNewUrlParser: true,
 useCreateIndex: true,
 useUnifiedTopology: true
});
const schema = mongoose.Schema({
  email: {
    type: String,
    unique: true,
    required: true,
    trim: true,
    lowercase: true,
    validate(value) {
      if (!validator.isEmail(value)) {
        throw new Error("Email is invalid!");
   },
  },
  password: {
    type: String,
    required: true,
   minlength: 7,
    trim: true,
    validate(value) {
      if (value.toLowerCase().includes("password")) {
        throw new Error('Password cannot contain "password"');
```

```
});
const User = mongoose.model("User", schema);
app.post("/login", (req, res) => {
  res.header("Access-Control-Allow-Origin", "*");
  const _id = req.body.email;
  console.log(req.body);
    .findOne({ email: _id })
    .then((user) => {
      console.log(user);
      if (user.password != req.body.password) {
        return res.status(405).send();
      res.status(200).send(user);
    })
    .catch((e) => {
      res.status(404).send();
    });
});
app.post("/register", (req, res) => {
  res.header("Access-Control-Allow-Origin", "*");
  console.log(req);
  const user = new User(req.body);
    .save(req.body)
    .then(() => {
      res.status(201);
      res.send(user);
    })
    .catch((e) => {
      res.status(400);
      res.send(e);
    // console.log(e)
    });
});
app.listen(3000, "localhost", function () {
 console.log("Hello World!");
});
```

# **Auth Service (used for API Calls)**

#### auth.service.ts

```
import { HttpClient } from '@angular/common/http';
import { Injectable } from '@angular/core';

@Injectable({
   providedIn: 'root'
})
   export class AuthService {
      constructor(private http: HttpClient) {
      }
      login(model){
        return this.http.post('http://localhost:3000/login', model);
      }
    register(model){
      return this.http.post('http://localhost:3000/register', model);
    }
}
```

# **Login Component**

### login.component.html

### login.component.css

```
form{
    display: block;
}

.form-signin{
    width: 100%;
    max-width: 330px;
    padding: 15px;
    margin: auto;
}

.vertically-center{
    margin: 0;
    position: absolute;
    top: 50%;
    -ms-transform: translateY(-50%);
    transform: translateY(-50%);
}

mb-4, .my-4 {
    margin-bottom: 1.5rem!important;
}
```

### Login.component.ts

```
import { Component, OnInit } from '@angular/core';
import { Router } from '@angular/router';
import { AuthService } from '../auth.service';
@Component({
  selector: 'app-login',
 templateUrl: './login.component.html',
  styleUrls: ['./login.component.css']
})
export class LoginComponent implements OnInit {
 model: any = {};
  emailPattern = "^[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,4}$"
  passwordPattern="^(?=.*[a-z])(?=.*[A-Z])(?=.*\\d)[a-zA-Z\\d\\W]{8,63}$";
  constructor(private route: Router, private authService: AuthService) { }
 ngOnInit(): void {
  login(){
    console.log(this.model);
    this.authService.login(this.model).subscribe((next: any) => {
      console.log(next);
```

```
this.route.navigate(['/welcome']);
}, error => {
   console.log(error);
   alert('Incorrect Username/Password');
});
}

register(){
   this.route.navigate(['register']);
}
```

## **Register Component**

#### register.component.html

### register.component.css

```
form{
    display: block;
}

.form-signin{
    width: 100%;
    max-width: 330px;
    padding: 15px;
    margin: auto;
}

.vertically-center{
    margin: 0;
```

```
position: absolute;
  top: 50%;
  -ms-transform: translateY(-50%);
  transform: translateY(-50%);
}
mb-4, .my-4 {
  margin-bottom: 1.5rem!important;
}
```

#### register.component.ts

```
import { Component, OnInit } from '@angular/core';
import { Router } from '@angular/router';
import { AuthService } from '../auth.service';
@Component({
  selector: 'app-register',
  templateUrl: './register.component.html',
  styleUrls: ['./register.component.css']
})
export class RegisterComponent implements OnInit {
 model: any = {};
  emailPattern = '^[a-z0-9. \%+-]+@[a-z0-9.-]+\.[a-z]{2,4}$';
  constructor(private route: Router, private authService: AuthService) { }
  login(){
    this.route.navigate(['login']);
  register(){
   this.authService.register(this.model).subscribe((next: any) => {
      console.log(next);
      this.route.navigate(['/welcome']);
   }, error => {
      console.log(error);
      alert('Could not register.');
    });
  ngOnInit(): void {
```

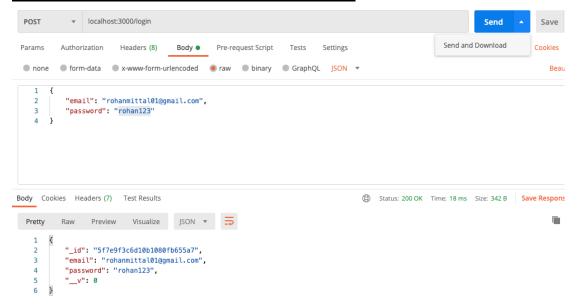
# **Welcome Component**

### welcome.component.html

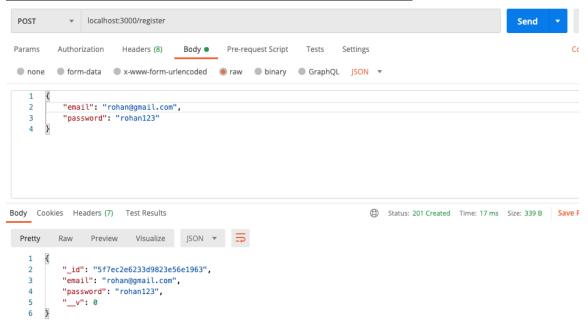
<h1 style="text-align: center">Welcome User!</h1>

# **POSTMAN Screenshots**

### Login testing should give status code 200 OK



### Register Testing should give status code 201 Created

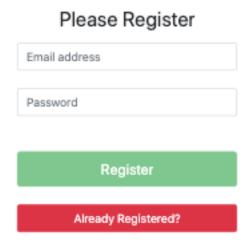


# **Output Screenshots:**

### **Initial Database State**



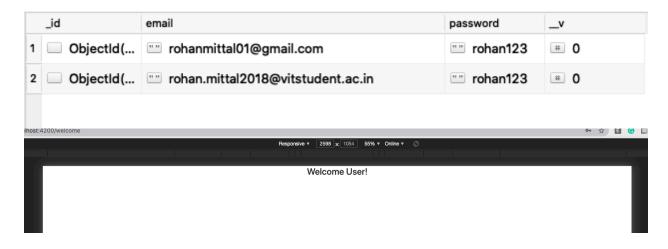
### **Register Page**



## **Database State and Next Page after registering**

email: rohan.mittal2018@vitstudent.ac.in

password: rohan123



### **Login Page**



### **After Logging In:**

