SE3040 – Application Frameworks

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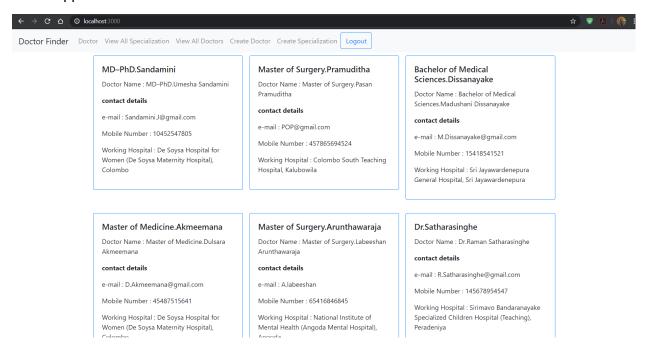
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Health

The decision to look for a new doctor may be one you've recently decided to make because of a number of different factors. In that type of situation people must change their family doctor or find a new doctor. So, people has to find trustworthy, qualified, respected and matching specialization for your need

Doctor finder is a web app that can find doctor details and specialization, education level and trusted data about doctors. So after knowing about details patient can always be comfortable around doctors.
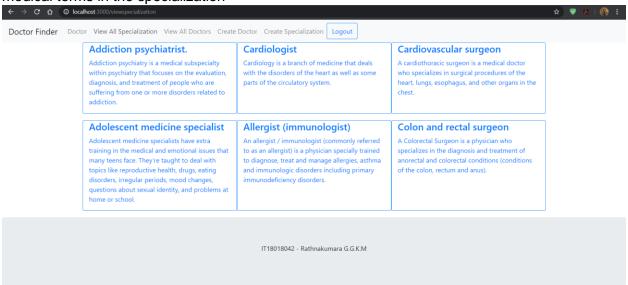
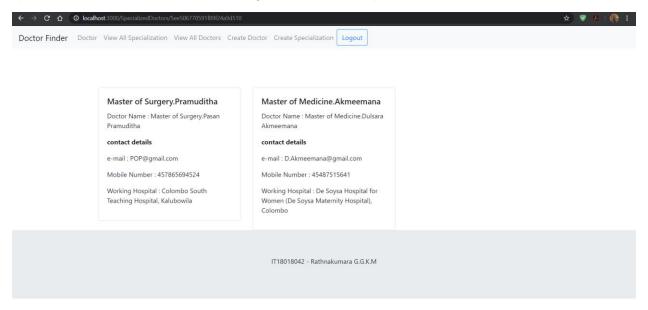In this application users can view doctor details

With full details user can understand what kind of doctor user need.

Most of the time users are not familier with medical terms so using doctor finder user can study about specializations of the doctor and with brief explanation will helpful to understanding of the

medical terms in the specialization

If user need to find the doctors according to their specialization users can click on the specialization and view doctors belong to the selected specialization

In doctor finder only the logged in user can add new data to the system. Logged in users can ADD, DELETE, UPDATE, VIEW (CRUD) operation in the system. For that users can simply logged in

Doctor View Delete

DoctorUpdate

Doctor create

Specialization create delete View

Specialization Update

Register

Login

Access control guest user Navigation Bar

Logged In user Navigation bar

Implementation of main three functions

Doctor

Doctor.route

```javascript
const router= require("express").Router();
const Doctor = require('../models/Doctor');

router.route('/').get(function(req, res) {
    Doctor.find(function(err, doctor) {
        if (err) {
            console.log(err);
        } else {
            res.json(doctor);
        }
    });
});

router.route('/:id').get(function(req, res) {
    let id = req.params.id;
    Doctor.findById(id, function(err, doctor) {
        res.json(doctor);
    });
})
router.route('/update/:id').post(function(req, res) {
    Doctor.findById(req.params.id, function(err, doctor) {
        if (!doctor)
            res.status(404).send("data is not found");
        else

        doctor.FirstName = req.body.FirstName;
        doctor.LastName = req.body.LastName;
        doctor.doctorType = req.body.doctorType;
        doctor.specialization = req.body.specialization;
        doctor.gender = req.body.gender;
        doctor.email = req.body.email;
        doctor.contactNo = req.body.contactNo;
```

```
        doctor.address = req.body.address;
        doctor.hospital = req.body.hospital;

        doctor.save().then(doctor => {
            res.json('user updated!');
        })
            .catch(err => {
                res.status(400).send("Update not possible");
            });
    });
});

router.route('/add').post(function(req, res) {
    let doctor = new Doctor(req.body);
    doctor.save()
        .then(doctor => {
            res.status(200).json({'user': 'user added successfully'});
        })
        .catch(err => {
            res.status(400).send('adding new user failed');
        });
});


router.route('/delete/:id').get(function (req, res) {
    Doctor.findByIdAndRemove({_id: req.params.id}, function(err, doctor){
        if(err) res.json(err);
        else res.json('Successfully removed');
    });
});

router.get("/specDoctor/doctor_by_id", (req, res) => {
    let type = req.query.type;
    let specializationIds = req.query.id;

    console.log(specializationIds)
    if (type === "array") {
        let ids = req.query.id.split(',');
        specializationIds = [];
        specializationIds = ids.map(item => {
            return item
        })
    }

    //we need to find the product information that belong to product Id
    Doctor.find({ 'specialization': { $in: specializationIds } })
        .populate('writer')
        .exec((err, product) => {
            if(err) return req.status(400).send(err)
            return res.status(200).send(product)
        })
});

module.exports = router;
```

doctor.model

```javascript
const mongoose = require('mongoose');
const Schema =  mongoose.Schema;

const DoctorShema =  new Schema({

    FirstName:{
        type:String
    },
    LastName:{
        type: String
    },
    doctorType:{
        type: String
    },
    specialization   :{
        type:String
    },
    gender: {
        type: String
    },
    email:{
        type: String
    },
    contactNo:{
        type: String
    },
    address :{
        type: String
    },
    hospital:{
        type: String
    }

});

module.exports = mongoose.model('Doctor', DoctorShema);
```

createdoctor

```javascript
import React,{Component} from "react";
import axios from 'axios';


export default class createdoctor extends Component{
    constructor(props) {
        super(props);

        this.onChangeFirstName = this.onChangeFirstName.bind(this);
        this.onChangeLastName = this.onChangeLastName.bind(this);
        this.onChangedoctorType = this.onChangedoctorType.bind(this);
        this.onChangespecialization = this.onChangespecialization.bind(this);
        this.onChangegender = this.onChangegender.bind(this);
```

```javascript
        this.onChangeemail = this.onChangeemail.bind(this);
        this.onChangecontactNo = this.onChangecontactNo.bind(this);
        this.onChangeaddress = this.onChangeaddress.bind(this);
        this.onChangehospital = this.onChangehospital.bind(this);
        this.onSubmit = this.onSubmit.bind(this);

        this.state = {
            FirstName:'',
            LastName:'',
            doctorType:'',
            specialization:'',
            gender:'',
            email:'',
            contactNo:'',
            address:'',
            hospital:'',
            specializations:[]
        }
    }

    componentDidMount() {
        axios.get('http://localhost:5000/specialization/').then(res =>{
            this.setState({
                specializations:res.data.map(specialization => specialization),
                specialization:res.data[0]
            });
            console.log(res.data)
        })
            .catch((err) => {
                console.log(err);
            })
        setInterval(this.setMessage,5000)
    }

    onChangeFirstName(e){
        this.setState({
            FirstName:e.target.value
        });
    }

    onChangeLastName(e){
        this.setState({
            LastName:e.target.value
        });
    }

    onChangedoctorType(e){
        this.setState({
            doctorType: e.target.value
        });
    }

    onChangespecialization(e){
        this.setState({
            specialization: e.target.value
```

```
        });
    }

    onChangegender(e){
        this.setState({
            gender: e.target.value
        });
    }

    onChangeemail(e){
        this.setState({
            email: e.target.value
        });
    }

    onChangecontactNo(e){
        this.setState({
            contactNo: e.target.value
        });
    }

    onChangeaddress(e){
        this.setState({
            address: e.target.value
        });
    }

    onChangehospital(e){
        this.setState({
            hospital: e.target.value
        });
    }

    onSubmit(e){
        e.preventDefault();
        console.log('Submitted');

        const newDoctor = {

            FirstName: this.state.FirstName,
            LastName: this.state.LastName,
            doctorType: this.state.doctorType,
            specialization: this.state.specialization,
            gender: this.state.gender,
            email: this.state.email,
            contactNo: this.state.contactNo,
            address: this.state.address,
            hospital: this.state.hospital

        };

        axios.post('http://localhost:5000/doctor/add', newDoctor)
            .then(res => console.log(res.data));

        this.setState({
```

```jsx
                FirstName:'',
                LastName:'',
                doctorType:'',
                specialization:'',
                gender:'',
                email:'',
                contactNo:'',
                address:'',
                hospital:''
        })
    }


    render() {
        return (
            <>
            <div className='container'>
                <div style={{marginTop: 10}}>
                    <h3>Create new Doctor</h3>
                    <form onSubmit={this.onSubmit}>
                        <div className="form-group">
                            <label>First Name : </label>
                            <input  type="text"
                                    className="form-control"
                                    value={this.state.FirstName}
                                    onChange={this.onChangeFirstName}
                            />
                        </div>
                        <div className="form-group">
                            <label>Last Name: </label>
                            <input
                                type="text"
                                className="form-control"
                                value={this.state.LastName}
                                onChange={this.onChangeLastName}
                            />
                        </div>
                        <div className="form-group">
                            <label>Doctor Type : </label>
                            <input  type="text"
                                    className="form-control"
                                    value={this.state.doctorType}
                                    onChange={this.onChangedoctorType}
                            />
                        </div>
                        <div className="form-group">
                            <label  className="bmd-label-floating">User Name</label>
                            <select ref="userInput"
                                    className="form-control rounded"
                                    value={this.state.specializations._id}
                                    onChange={this.onChangespecialization}>
                                {
this.state.specializations.map(function(specialization) {
                                    return <option
```

```jsx
                                    key={specialization}
value={specialization._id}>{specialization.specialization}
                                </option>;
                            })
                        }
                    </select>
                </div>

                <div className="form-group">
                    <label className="form-check-label">Gender</label>
                    <br/>
                    <div className="form-check form-check-inline">
                        <input   className="form-check-input"
                                type="radio"
                                name="Gender"
                                id="GenderMale"
                                value="Male"
                                checked={this.state.gender==='Male'}
                                onChange={this.onChangegender}
                        />
                        <label className="form-check-label">Male</label>
                    </div>
                    <div className="form-check form-check-inline">
                        <input   className="form-check-input"
                                type="radio"
                                name="Gender"
                                id="GenderFemale"
                                value="Female"
                                checked={this.state.gender==='Female'}
                                onChange={this.onChangegender}
                        />
                        <label className="form-check-label">Female</label>
                    </div>
                </div>
                <div className="form-group">
                    <label>e-mail : </label>
                    <input  type="text"
                            className="form-control"
                            value={this.state.email}
                            onChange={this.onChangeemail}
                    />
                </div>
                <div className="form-group">
                    <label>Contact Number : </label>
                    <input  type="text"
                            className="form-control"
                            value={this.state.contactNo}
                            onChange={this.onChangecontactNo}
                    />
                </div>
                <div className="form-group">
                    <label>Address : </label>
                    <input  type="text"
                            className="form-control"
```

```
                                        value={this.state.address}
                                        onChange={this.onChangeaddress}
                                    />
                            </div>
                            <div className="form-group">
                                <label>Working Hospital : </label>
                                <input   type="text"
                                        className="form-control"
                                        value={this.state.hospital}
                                        onChange={this.onChangehospital}
                                    />
                            </div>
                            <div className="form-group">
                                <input type="submit" value="Create Doctor" className="btn
btn-primary" />
                            </div>
                        </form>
                    </div>
                </div>
            </ />
        );
    }
}
```

update doctor

```
import React,{Component} from "react";
import axios from 'axios';


export default class updatedoctor extends Component{
    constructor(props){
        super(props);

        this.onChangeFirstName = this.onChangeFirstName.bind(this);
        this.onChangeLastName = this.onChangeLastName.bind(this);
        this.onChangedoctorType = this.onChangedoctorType.bind(this);
        this.onChangespecialization = this.onChangespecialization.bind(this);
        this.onChangegender = this.onChangegender.bind(this);
        this.onChangeemail = this.onChangeemail.bind(this);
        this.onChangecontactNo = this.onChangecontactNo.bind(this);
        this.onChangeaddress = this.onChangeaddress.bind(this);
        this.onChangehospital = this.onChangehospital.bind(this);
        this.onSubmit = this.onSubmit.bind(this);

        this.state = {
            FirstName:'',
            LastName:'',
            doctorType:'',
            specialization:'',
            gender:'',
            email:'',
            contactNo:'',
            address:'',
```

```javascript
                hospital:''
        }
    }

    componentDidMount() {

        axios.get('http://localhost:5000/doctor/'+ this.props.match.params.id)
            .then(response => {
                this.setState({
                    FirstName : response.data.FirstName,
                    LastName : response.data.LastName,
                    doctorType : response.data.doctorType,
                    specialization : response.data.specialization,
                    gender : response.data.gender,
                    email : response.data.email,
                    contactNo : response.data.contactNo,
                    address : response.data.address,
                    hospital : response.data.hospital,

                })
            }).catch(function (error) {
            console.log(error);
        })
    }

    onChangeFirstName(e){
        this.setState({
            FirstName:e.target.value
        });
    }

    onChangeLastName(e){
        this.setState({
            LastName:e.target.value
        });
    }

    onChangedoctorType(e){
        this.setState({
            doctorType: e.target.value
        });
    }

    onChangespecialization(e){
        this.setState({
            specialization: e.target.value
        });
    }

    onChangegender(e){
        this.setState({
            gender: e.target.value
        });
    }
```

```javascript
    onChangeemail(e){
        this.setState({
            email: e.target.value
        });
    }

    onChangecontactNo(e){
        this.setState({
            contactNo: e.target.value
        });
    }

    onChangeaddress(e){
        this.setState({
            address: e.target.value
        });
    }

    onChangehospital(e){
        this.setState({
            hospital: e.target.value
        });
    }

    onSubmit(e){
        e.preventDefault();
        console.log('Submitted');

        const obj = {

            FirstName: this.state.FirstName,
            LastName: this.state.LastName,
            doctorType: this.state.doctorType,
            specialization: this.state.specialization,
            gender: this.state.gender,
            email: this.state.email,
            contactNo: this.state.contactNo,
            address: this.state.address,
            hospital: this.state.hospital,


        };

        axios.post('http://localhost:5000/doctor/update/'+this.props.match.params.id,
obj)
            .then(res => console.log(res.data));
        this.props.history.push('/');
    }


    render() {
        return(
            <>
```

```jsx
<div className='container'>
    <div style={{marginTop: 10}}>
        <h3>Update Doctor Details</h3>
        <form onSubmit={this.onSubmit}>
            <div className="form-group">
                <label>First Name : </label>
                <input  type="text"
                        className="form-control"
                        value={this.state.FirstName}
                        onChange={this.onChangeFirstName}
                />
            </div>
            <div className="form-group">
                <label>Last Name: </label>
                <input
                    type="text"
                    className="form-control"
                    value={this.state.LastName}
                    onChange={this.onChangeLastName}
                />
            </div>
            <div className="form-group">
                <label>Doctor Type : </label>
                <input  type="text"
                        className="form-control"
                        value={this.state.doctorType}
                        onChange={this.onChangedoctorType}
                />
            </div>
            <div className="form-group">
                <label>Specialization : </label>
                <input  type="text"
                        className="form-control"
                        value={this.state.specialization}
                        onChange={this.onChangespecialization}
                />
            </div>

            <div className="form-group">
                <label className="form-check-label">Gender</label>
                <br/>
                <div className="form-check form-check-inline">
                    <input  className="form-check-input"
                            type="radio"
                            name="Gender"
                            id="GenderMale"
                            value="Male"
                            checked={this.state.gender==='Male'}
                            onChange={this.onChangegender}
                    />
                    <label className="form-check-label">Male</label>
                </div>
                <div className="form-check form-check-inline">
                    <input  className="form-check-input"
                            type="radio"
```

```jsx
                                        name="Gender"
                                        id="GenderFemale"
                                        value="Female"
                                        checked={this.state.gender==='Female'}
                                        onChange={this.onChangegender}
                                    />
                                    <label className="form-check-label">Female</label>
                                </div>
                            </div>
                            <div className="form-group">
                                <label>e-mail : </label>
                                <input  type="text"
                                        className="form-control"
                                        value={this.state.email}
                                        onChange={this.onChangeemail}
                                />
                            </div>
                            <div className="form-group">
                                <label>Contact Number : </label>
                                <input  type="text"
                                        className="form-control"
                                        value={this.state.contactNo}
                                        onChange={this.onChangecontactNo}
                                />
                            </div>
                            <div className="form-group">
                                <label>Address : </label>
                                <input  type="text"
                                        className="form-control"
                                        value={this.state.address}
                                        onChange={this.onChangeaddress}
                                />
                            </div>
                            <div className="form-group">
                                <label>Working Hospital : </label>
                                <input  type="text"
                                        className="form-control"
                                        value={this.state.hospital}
                                        onChange={this.onChangehospital}
                                />
                            </div>
                            <div className="form-group">
                                <input type="submit" value="Update Doctor details"
className="btn btn-primary" />
                            </div>
                        </form>
                    </div>
                </div>
            </>
        );
    }
}
```

View doctor

```jsx
import React,{Component} from "react";
import axios from 'axios';
import Doctoritem from "./doctoritem";


export default class viewdoctor extends Component{
    constructor(props) {
        super(props);
        this.getAlldoctors = this.getAlldoctors.bind(this);

        this.state = {
            Doctor : []
        };
    }

    getAlldoctors(){
        axios.get('http://localhost:5000/doctor/')
            .then(response => {
                this.setState({Doctor: response.data});
            })
            .catch(function (error) {
                console.log(error);
            })
    }

    componentDidMount() {
        setInterval(this.getAlldoctors,2000)
    }

    Doctoritem(){
        return this.state.Doctor.map(function(object, i){
            return <Doctoritem obj={object} key={i}  />;
        });
    }
    render() {


        return (
            <div>

                <h3 align="center">Doctor List</h3>
                <table className="table table-striped" style={{ marginTop: 20 }}>
                    <thead>
                    <tr>
                        <th>First Name</th>
                        <th>Last Name</th>
                        <th>Doctor Type</th>
                        <th>Gender</th>
                        <th>email</th>
                        <th>contactNo</th>
                        <th>contactNo</th>
                        <th>Working Hospital</th>
                        <th colSpan="2">Action</th>
```

```
                </tr>
            </thead>
            <tbody>
            { this.Doctoritem() }
            </tbody>
        </table>
    </div>
    );
    }

}
```

doctorItem

```
import React, { Component } from 'react';
import { Link } from 'react-router-dom';
import axios from 'axios';

class doctoritem extends Component {

    constructor(props) {
        super(props);
        this.delete = this.delete.bind(this);
    }
    delete() {
        axios.get('http://localhost:5000/doctor/delete/' +this.props.obj._id)
            .then(console.log("doctor Deleted"))
            .catch(err => console.log(err))
    }

    render() {
        return (
            <tr>
                <td>
                    {this.props.obj.FirstName}
                </td>
                <td>
                    {this.props.obj.LastName}
                </td>
                <td>
                    {this.props.obj.doctorType}
                </td>
                {/*<td>*/}
                {/*    {this.props.obj.specialization}*/}
                {/*</td>*/}
                <td>
                    {this.props.obj.gender}
                </td>
                <td>
                    {this.props.obj.email}
                </td>
                <td>
                    {this.props.obj.contactNo}
                </td>
```

```
                <td>
                    {this.props.obj.address}
                </td>
                <td>
                    {this.props.obj.hospital}
                </td>
                <td>
                    <Link to={"/update/"+this.props.obj._id}>Edit</Link>
                </td>
                <td>
                    <button onClick={this.delete} className="btn btn-
danger">Delete</button>
                </td>
            </tr>
        );
    }
}

export default doctoritem;
```

Specialization

CreateSpecialization

```
import React,{Component} from "react";
import axios from 'axios';
import Viewspecialization from './viewspecialization'

export default class createspecialization extends Component{
    constructor(props) {
        super(props);

        this.onChangespecialization= this.onChangespecialization.bind(this);
        this.onChangespecializationdetails =
this.onChangespecializationdetails.bind(this);
        this.onSubmit = this.onSubmit.bind(this);

        this.state = {
            specialization:'',
            specializationdetails:'',
        }
    }

    componentDidMount() {
        axios.get('http://localhost:5000/doctor/').then(res =>{
            this.setState({
                doctors:res.data.map(doctor => doctor),
                doctor:res.data[0]
            });
            console.log(res.data)
        })
            .catch((err) => {
                console.log(err);
```

```jsx
        })
        setInterval(this.setMessage,5000)
}

onChangespecialization(e){
    this.setState({
        specialization:e.target.value
    });
}

onChangespecializationdetails(e){
    this.setState({
        specializationdetails:e.target.value
    });
}

onSubmit(e){
    e.preventDefault();
    console.log('Submitted');

    const newSpecialization = {

        specialization: this.state.specialization,
        specializationdetails: this.state.specializationdetails,


    };

    axios.post('http://localhost:5000/specialization/add', newSpecialization)
        .then(res => console.log(res.data));

    this.setState({

        specialization:'',
        specializationdetails:''

    })
}


render() {
    return (
        <>

        <div className='container'>
            <div style={{marginTop: 10}}>
                <h3>Create new specialization</h3>
                <form onSubmit={this.onSubmit}>
                    <div className="form-group">
                        <label>Specialization : </label>
                        <input  type="text"
                                className="form-control"
                                value={this.state.specialization}
                                onChange={this.onChangespecialization}
                        />
```

```
                            </div>
                            <div className="form-group">
                                <label>Specialization Details: </label>
                                <input
                                    type="textarea"
                                    className="form-control"
                                    value={this.state.specializationdetails}
                                    onChange={this.onChangespecializationdetails}
                                />
                            </div>
                            <div className="form-group">
                                <input type="submit" value="Create new Specialization"
className="btn btn-primary" />
                            </div>
                        </form>
                </div>

                <Viewspecialization/>
            </div>
                </>
        );
    }
}
```

updatespecialization

```
import React,{Component} from "react";
import axios from 'axios';


export default class updatespecialization extends Component{
    constructor(props){
        super(props);

        this.onChangespecialization = this.onChangespecialization.bind(this);
        this.onChangespecializationdetails =
this.onChangespecializationdetails.bind(this);
        this.onSubmit = this.onSubmit.bind(this);

        this.state = {
            specialization:'',
            specializationdetails:'',

        }
    }

    componentDidMount() {

        axios.get('http://localhost:5000/specialization/'+
this.props.match.params.id)
            .then(response => {
                this.setState({
                    specialization : response.data.specialization,
                    specializationdetails : response.data.specializationdetails,
```

```jsx
            })
        }).catch(function (error) {
            console.log(error);
        })
    }

    onChangespecialization(e){
        this.setState({
            specialization:e.target.value
        });
    }

    onChangespecializationdetails(e){
        this.setState({
            specializationdetails:e.target.value
        });
    }

    onSubmit(e){
        e.preventDefault();
        console.log('Submitted');

        const obj = {

            specialization: this.state.specialization,
            specializationdetails: this.state.specializationdetails,
        };


axios.post('http://localhost:5000/specialization/update/'+this.props.match.params.id,
obj)
            .then(res => console.log(res.data));
        this.props.history.push('/specialization');
    }



    render() {
        return(
            <>
            <div className='container'>
                <div style={{marginTop: 10}}>
                    <h3>Update Specialization</h3>
                    <form onSubmit={this.onSubmit}>
                        <div className="form-group">
                            <label>First Name : </label>
                            <input   type="text"
                                    className="form-control"
                                    value={this.state.specialization}
                                    onChange={this.onChangespecialization}
                            />
                        </div>
                        <div className="form-group">
```

```
                                    <label>Last Name: </label>
                                    <input
                                        type="text"
                                        className="form-control"
                                        value={this.state.specializationdetails}
                                        onChange={this.onChangespecializationdetails}
                                    />
                                </div>
                                <div className="form-group">
                                    <input type="submit" value=" Update Specialization"
className="btn btn-primary" />
                                </div>
                            </form>
                    </div>
                </div>
                    </>
        );
    }
}
```

Viewspecialization

```
import React,{Component} from "react";
import axios from 'axios';
import Specializationitem from './specializationitem';


export default class viewspecialization extends Component{
    constructor(props) {
        super(props);
        this.getAllspecialization = this.getAllspecialization.bind(this);

        this.state = {
            Specialization:[]
        };
    }

    getAllspecialization(){
        axios.get('http://localhost:5000/specialization/')
            .then(response => {
                this.setState({Specialization: response.data});
            })
            .catch(function (error) {
                console.log(error);
            })
    }

    componentDidMount() {
        setInterval(this.getAllspecialization,2000)
    }
```

```
    Specializationitem(){
        return this.state.Specialization.map(function(object, i){
            return <Specializationitem obj={object} key={i}  />;
        });
    }
    render() {


        return (
            <div>
                <h3 align="center">Specialization List</h3>
                <table className="table table-striped" style={{ marginTop: 20 }}>
                    <thead>
                    <tr>
                        <th>Specialization</th>
                        <th>Specialization Details</th>
                        <th colSpan="2">Action</th>
                    </tr>
                    </thead>
                    <tbody>
                    { this.Specializationitem() }
                    </tbody>
                </table>
            </div>
        );
    }
}
```

specializationitem

```
import React, { Component } from 'react';
import { Link } from 'react-router-dom';
import axios from 'axios';

class Specializationitem extends Component {

    constructor(props) {
        super(props);
        this.delete = this.delete.bind(this);
    }
    delete() {
        axios.get('http://localhost:5000/specialization/delete/' +this.props.obj._id)
            .then(console.log("specialization Deleted"))
            .catch(err => console.log(err))
    }

    render() {
        return (
            <tr>
                <td>
```

```
                {this.props.obj.specialization}
            </td>
            <td>
                {this.props.obj.specializationdetails}
            </td>
            <td>
                <Link
to={"/updatespecialization/"+this.props.obj._id}>Edit</Link>
            </td>
            <td>
                <button onClick={this.delete} className="btn btn-
danger">Delete</button>
            </td>
        </tr>
    );
    }
}

export default Specializationitem;
```

user

userlogin

```
import React, { Component } from 'react';
import axios from "axios";
import { BrowserRouter, Switch, Route, Link, Redirect, useHistory, useLocation } from
"react-router-dom";
class UserLogin extends Component {
    constructor(props) {
        super(props);

        this.onchangeemail = this.onchangeemail.bind(this);
        this.onchangepassword = this.onchangepassword.bind(this);
        this.onSubmit = this.onSubmit.bind(this);
        const user = sessionStorage.user && JSON.parse(sessionStorage.user);
        this.state = {
            email:'',
            password:'',
            errors: {
                email: '',
                password: '',
                other: ''
            },
            user: {
                UserName: (user && user.UserName),
                page: '',
            }
        }
    }
```

```javascript
onchangepassword(e) {
    this.setState({
        password: e.target.value
    })
}

onchangeemail(e) {
    this.setState({
        email: e.target.value
    })
}

validateForm() {
    let error = false
    if (this.state.email === '') {
        error = true
        this.setState({
            errors: {
                ...this.state.errors,
                email: 'Email cannot be empty',
            }
        })
    }



    return error
}

onSubmit(e) {
    e.preventDefault();

    if (!this.validateForm()) {

        const newUser = {
            password: this.state.password,
            email: this.state.email
        }

        this.setState(
            {
                password: '',
                email: '',
                errors: {
                    email: '',
                    password: '',
                    other: ''
                }
            }
        );

        axios.post('http://localhost:5000/Admin/login', newUser).then(res => {
            console.log(res.data)

            const user = {
```

```
                        _id: res.data.user._id,
                        email: res.data.user.email,
                        UserName: res.data.user.UserName
                    }

                    console.log(user)

                    sessionStorage.setItem("auth-token", res.data.token);
                    sessionStorage.setItem('user', JSON.stringify(user));
                    window.location.reload();
                    // console.log(res.data && res.data.adminUser &&
        res.data.adminUser.firstLogin)


                        // this.props.history.push('/')

                })
                .catch((err) => {
                    console.log(err.response);
                    this.setState({
                        errors: {
                            ...this.state.errors,
                            other: err.response.data.msg,
                        }
                    })
                })
        }


    }
    render() {
        const {  errors, user } = this.state;
        if (user.UserName)
            this.props.history.push('/');
        return (
            <div>
                <div className="container">
                <div className="login-form">
                    <form onSubmit={this.onSubmit}>
                        <h2 className="text-center">Log in</h2>
                        <div className="form-group">
                            {errors.other.length > 0 &&
                            <span className='error'>{errors.other}</span>}
                        </div>

                        <div className="form-group">
                            <input type="text" className="form-control"
placeholder="Email" required="required" value={this.state.email}
onChange={this.onchangeemail}></input>
                            {errors.email.length > 0 &&
                            <span className='error'>{errors.email}</span>}
                        </div>
                        <div className="form-group">
                            <input type="password" className="form-control"
placeholder="Password" required="required" value={this.state.password}
onChange={this.onchangepassword}></input>
```

```
                              {errors.password.length > 0 &&
                              <span className='error'>{errors.password}</span>}
                          </div>
                          <div className="form-group">

                              <button type="submit" className="btn btn-primary btn-
block">Log in</button>
                          </div>
                          <div className="clearfix">
                          </div>
                      </form>
                  </div>
                  </div>
              </div>
          );
      }
}

export default UserLogin;
```

userregister

```
import React, { Component } from 'react';
import axios from 'axios';
import Modal from "react-bootstrap/Modal";

class UserRegister extends Component {
    constructor(props) {
        super(props);

        this.onchangeUserName = this.onchangeUserName.bind(this);
        this.onchangeemail = this.onchangeemail.bind(this);
        this.onchangepassword = this.onchangepassword.bind(this);
        this.onchangeCpassword = this.onchangeCpassword.bind(this);
        this.handleCloseAdd = this.handleCloseAdd.bind(this);
        this.handleShowAdd = this.handleShowAdd.bind(this);
        this.onSubmit = this.onSubmit.bind(this);

        this.state = {
            UserName: '',
            email: '',
            password: '',
            Cpassword:'',
            error:'',
            isError:false,
        }

    }

    onchangeUserName(e) {
        this.setState({
            UserName: e.target.value
        })
    }
```

```javascript
onchangeemail(e) {
    this.setState({
        email: e.target.value
    })
}

onchangepassword(e) {
    this.setState({ password: e.target.value });
}

onchangeCpassword(e) {
    this.setState({ Cpassword: e.target.value });
}

handleCloseAdd(){
    this.setState({
        show:false

    })
}
handleShowAdd(){
    this.setState({
        show:true
    })
}


onSubmit(e) {
    e.preventDefault();
    if (this.state.password === this.state.Cpassword){
    const newUser = {
        UserName: this.state.UserName,
        email: this.state.email,
        password: this.state.password,

    }


    this.setState(
        {
            UserName: '',
            email: '',
            password: '',
            Cpassword:''

        }
    )


    axios.post('http://localhost:5000/Admin/add'
        , newUser).then(res => {

        console.log(res.data)
```

```jsx
            console.log(res.data.msg)
            this.setState({
                error: res.data.msg,
                isError:true
            })
            this.handleShowAdd()
        });
        }else{
            this.setState({error:"passwords are not matching",
                isError:true
            });
            this.handleShowAdd()
        }
    }


    render() {
        return (

            <div className="first">

                <br /><br />
                <div className="container">

                    <div className="row justify-content-center">
                        <div className="col-12 col-md-8 col-lg-6 pb-5">

                            <form onSubmit={this.onSubmit}>
                                <div className="card  rounded">

                                    <div className="card-header rounded p-0">
                                        <div className="bg-primary text-white text-
center py-2">

                                            <h3> Create User Accounts</h3>

                                        </div>
                                    </div>
                                    <div className="card-body rounded p--3">

                                        <div className="form-group">
                                            <div className="input-group mb-2">
                                                <div className="input-group-prepend">
                                                    <div className="input-group-
text">

                                                    </div>
                                                </div>
                                                <input type="text" className="form-
control" id="name" name="username" value={this.state.UserName}
onChange={this.onchangeUserName}

                                                    placeholder="Enter Name"
required></input>
                                            </div>
                                        </div>
```

```jsx
                                                    <div className="form-group">
                                                        <div className="input-group mb-2">
                                                            <div className="input-group-prepend">
                                                                <div className="input-group-
text"></div>
                                                            </div>
                                                            <input type="email" className="form-
control" id="email" name="email" value={this.state.email}
onChange={this.onchangeemail}
                                                                placeholder="Enter the email"
required></input>
                                                        </div>
                                                    </div>
                                                    <div className="form-group">
                                                        <div className="input-group mb-2">
                                                            <div className="input-group-prepend">
                                                                <div className="input-group-
text"></div>
                                                            </div>
                                                            <input type="password"
className="form-control" id="email" name="email" value={this.state.password}
onChange={this.onchangepassword}
                                                                placeholder="Enter the email"
required></input>
                                                        </div>
                                                    </div>
                                                    <div className="form-group">
                                                        <div className="input-group mb-2">
                                                            <div className="input-group-prepend">
                                                                <div className="input-group-
text"></div>
                                                            </div>
                                                            <input type="password"
className="form-control" id="email" name="email" value={this.state.Cpassword}
onChange={this.onchangeCpassword}
                                                                placeholder="Enter the email"
required></input>
                                                        </div>
                                                    </div>

                                                    <div className="text-center">
                                                        <input type="submit" value="Submit"
className="btn btn-primary btn-block rounded py-2"></input>
                                                    </div>
                                                </div>

                                        </div>
                                    </form>
                                    <Modal show={this.state.show}
onHide={this.handleCloseAdd}>
                                        <Modal.Header closeButton>
                                            <h6>{this.state.error}</h6>
                                        </Modal.Header>
                                    </Modal>
                                </div>
```

```
                </div>
            </div>
            <br />
        </div>

    );
  }
}

export default UserRegister;
```

Homepage

NavigationBar

```
import React, { Component } from 'react';
import { BrowserRouter, Switch, Route, Link, Redirect, useHistory, useLocation } from
"react-router-dom";
import history from 'history';
//import Navbar from 'react-bootstrap/Navbar';
import NavDropdown from 'react-bootstrap/NavDropdown';
//import { Link } from 'react-router-dom';
import { Navbar, Nav, Form, Button, FormControl } from 'react-bootstrap';

class NavigationBar extends Component {
    constructor(props) {
        super(props);

        const user = sessionStorage.user && JSON.parse(sessionStorage.user);

        this.logout = this.logout.bind(this);
        this.onNavBarClick = this.onNavBarClick.bind(this);

        this.state = {
            user: {
                UserName: (user && user.UserName),
                page: '',
            }
        }
    }



    onNavBarClick(eventKey, event) {

        this.setState({
            page: eventKey
        })
    }

    logout = () => {

        sessionStorage.removeItem('user');
```

```jsx
            sessionStorage.removeItem('auth-token');
            window.location = '/';
    }

    render() {
        const user = this.state.user && this.state.user.UserName
        const role = this.state.user && this.state.user.role


        const guestView =
            <React.Fragment>
                <li className="navbar-item">
                    <Link to="/Register" className="nav-link">Sign Up</Link>
                </li>
                <li className="navbar-item">
                    <Link to="/Login" className="nav-link">Sign In</Link>
                </li>
                <li>
                    <p>{this.state.user.UserName}</p>
                </li>
            </React.Fragment>

        const userView =
            <React.Fragment>
                    <li className="navbar-item">
                        <Link to="/getAllDoctors" className="nav-link">View All
Doctors</Link>
                    </li>
                    <li className="navbar-item">
                        <Link to="/create" className="nav-link">Create
Doctor</Link>
                    </li>
                    <li className="navbar-item">
                        <Link to="/specialization" className="nav-link">Create
Specialization</Link>
                    </li>

                    <button className="btn btn-outline-primary my-2 my-sm-0"
onClick={this.logout}>Logout</button>

            </React.Fragment>


        return (
            <div>
                <nav className="navbar navbar-expand-lg navbar-light bg-light">
                    <a className="navbar-brand" href="/">Doctor Finder</a>
                    <button className="navbar-toggler" type="button" data-
toggle="collapse"
                        data-target="#navbarTogglerDemo02" aria-
controls="navbarTogglerDemo02" aria-expanded="false"
                        aria-label="Toggle navigation">
                        <span className="navbar-toggler-icon"></span>
                    </button>
                    <div className="collapse navbar-collapse"
```

```
id="navbarTogglerDemo02">
                        <ul className="navbar-nav mr-auto mt-2 mt-lg-0">
                            <li className="navbar-item">
                                <Link to="/" className="nav-link">Doctor</Link>
                            </li>
                            <li className="navbar-item">
                                <Link to="/viewspecialization" className="nav-
link">View All Specialization</Link>
                            </li>
                            {user ? userView : guestView}
                        </ul>
                    </div>
                </nav>
            </div>
        )
    }

}

export default NavigationBar;
```

SpecializationDoctor

```
import React, {Component} from 'react';

import axios from 'axios';
import SpecializationDoctoritem from './specializationDoctoritem';



class specializationDoctor extends Component {
    constructor(props) {
        super(props);
        const specializationIds = props.match.params.id
        this.state = {
            Doctors:[],
            Specid:specializationIds
        }
    }
// +this.props.match.params.category
    componentDidMount() {
        console.log(this.state.Specid);
        const Id = this.props.match.params.id

axios.get(`http://localhost:5000/doctor/specDoctor/doctor_by_id?id=${this.state.Speci
d}&type=single`).then(res =>{
            this.setState({Doctors:res.data});
            console.log(res.data)
        })
            .catch((err) => {
```

```
                console.log(err);
            })
    }


    // SelectSubcategory(id){
    //      axios.get('http://localhost:5000/Subcategory/'+id)
    //          .then(res => console.log(res.data));
    //      this.setState({
    //          Subcategory: this.state.Subcategory.filter(el => el._id !== id)
    //      })
    //      alert(id);
    // }


    render() {
        return (
            <>
                <div className="container pt-5">
                    <div className="row">
                        <div className="container pt-5">
                            <div className="row">
                                {
                                    this.state.Doctors.map(doctor => {
                                        return(
                                            < SpecializationDoctoritem
SpecializationDoctoritem = {doctor}  key = {doctor._id}/>


                                        )
                                    })
                                }
                            </div>
                        </div>
                    </div>
                </div>

            </>
        );
    }
}

export default specializationDoctor;
```

specializationDoctoritem

```
import React, {Component} from 'react';


const SpecializationDoctoritem = props => {

    const img = {
```

```
            width:"160px",
            height:"160px"
        }
    return(
        <>
                <div className="col-sm-4">
                    <div className="card">
                        <div className="card-body">
                            <h5 className="card-
title">{props.SpecializationDoctoritem.doctorType}.{props.SpecializationDoctoritem.La
stName}</h5>

                                <p className="card-text">
                                    Doctor Name :
{props.SpecializationDoctoritem.doctorType}.{props.SpecializationDoctoritem.FirstName
}  {props.SpecializationDoctoritem.LastName}</p>
                                <p><strong>contact details</strong></p>
                                <p>e-mail : {props.SpecializationDoctoritem.email}</p>
                                <p>Mobile Number :
{props.SpecializationDoctoritem.contactNo}</p>
                                <p>Working Hospital :
{props.SpecializationDoctoritem.hospital}</p>
                            </div>
                        </div>
                    </div>
        </>
    )
}

export default SpecializationDoctoritem
```

ViewAlldoctors

```
import React, {Component} from 'react';

import axios from 'axios';

import ViewAlldoctoritem from "./ViewAlldoctoritem";


class ViewAlldoctor extends Component {
    constructor(props) {
        super(props);
        this.state = {
            Doctor:[]
        }
    }
    componentDidMount() {
        axios.get('http://localhost:5000/doctor/').then(res =>{
            this.setState({Doctor:res.data});
            console.log(res.data)
        })
```

```
                .catch((err) => {
                    console.log(err);
                })
        }


    Selectspecialization(id){
        axios.get('http://localhost:5000/specialization/'+id)
            .then(res => console.log(res.data));
        this.setState({
            Specialization: this.state.Specialization.filter(el => el._id !== id)
        })
        alert(id);
    }


    render() {
        return (
            <>
                <div className="container">
                    <div className="row">
                        {
                            this.state.Doctor.map(doctor => {
                                return(
                                    <ViewAlldoctoritem ViewAlldoctoritem = {doctor}
key = {doctor._id}/>
                                )
                            })
                        }
                    </div>
                </div>
            </>
        );
    }
}

export default ViewAlldoctor;
```

ViewAlldoctorItem

```
import React, {Component} from 'react';

const ViewAlldoctoritem = props => {

    return(
        <>
            <div className="col-sm-4 p-2">
                <div className="card border-primary mb-3">
                    <div className="card-body">
                        <h5 className="card-
title">{props.ViewAlldoctoritem.doctorType}.{props.ViewAlldoctoritem.LastName}</h5>
```

```
                              <p className="card-text">
                                  Doctor Name :
{props.ViewAlldoctoritem.doctorType}.{props.ViewAlldoctoritem.FirstName}
{props.ViewAlldoctoritem.LastName}</p>
                              <p><strong>contact details</strong></p>
                              <p>e-mail : {props.ViewAlldoctoritem.email}</p>
                              <p>Mobile Number : {props.ViewAlldoctoritem.contactNo}</p>
                              <p>Working Hospital : {props.ViewAlldoctoritem.hospital}</p>
                      </div>
                  </div>
              </div>
          </>
      )
};

export default ViewAlldoctoritem
```

Viewallspecialization

```javascript
import React, {Component} from 'react';

import axios from 'axios';

import ViewAllspecializationitem from "./ViewAllspecializationitem";


class ViewAllspecialization extends Component {
    constructor(props) {
        super(props);
        this.state = {
            Specialization:[]
        }
    }
    componentDidMount() {
        axios.get('http://localhost:5000/specialization/').then(res =>{
            this.setState({Specialization:res.data});
            console.log(res.data)
        })
            .catch((err) => {
                console.log(err);
            })
    }


    Selectspecialization(id){
        axios.get('http://localhost:5000/specialization/'+id)
            .then(res => console.log(res.data));
        this.setState({
            Specialization: this.state.Specialization.filter(el => el._id !== id)
        })
        alert(id);
    }
```
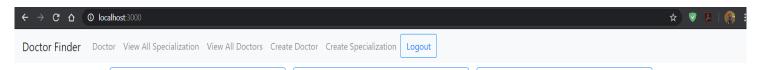
```
    render() {
        return (
            <>
                <div className="container">
                    <div className="row">
                        {
                            this.state.Specialization.map(specialization => {
                                return(
                                    <ViewAllspecializationitem
ViewAllspecializationitem = {specialization}  key = {specialization._id}/>
                                )
                            })
                        }
                    </div>
                </div>
            </>
        );
    }
}

export default ViewAllspecialization;
```

ViewAllspecializationItem

```
import React, {Component} from 'react';

const ViewAllspecializationitem = props => {

    return(
        <>
            <div className="card border-primary mb-3 col-lg-4 col-md-6">
                <div className="single-product">
                    <div className="product-btm">
                        <a
href={`/SpecializedDoctors/${props.ViewAllspecializationitem._id}`} className="d-
block">
                            <h4
>{props.ViewAllspecializationitem.specialization}</h4>

<p>{props.ViewAllspecializationitem.specializationdetails}</p>
                        </a>
                    </div>
                </div>
            </div>
        </>
    )
};

export default ViewAllspecializationitem
```

Mongo query

[{
  "_id": {
    "$oid": "5ee5084c0591f89f24a9d513"
  },
  "FirstName": "Umesha",
  "LastName": "Sandamini",
  "doctorType": "MD–PhD",
  "specialization": "5ee507390591f89f24a9d512",
  "gender": "Female",
  "email": "Sandamini.J@gmail.com",
  "contactNo": "10452547805",
  "address": "345/dw, Malabe, ",
  "hospital": "De Soysa Hospital for Women (De Soysa Maternity Hospital), Colombo",
  "__v": 0
},{
  "_id": {
    "$oid": "5ee508ae0591f89f24a9d514"
  },
  "FirstName": "Pasan",
  "LastName": "Pramuditha",
  "doctorType": "Master of Surgery",
  "specialization": "5ee506770591f89f24a9d510",
  "gender": "Male",
  "email": "POP@gmail.com",
  "contactNo": "457865694524",
  "address": "748/dw. Dote, Galle",
  "hospital": "Colombo South Teaching Hospital, Kalubowila",

```json
    "__v": 0
},{
  "_id": {
    "$oid": "5ee5093d0591f89f24a9d515"
  },
  "FirstName": "Madushani",
  "LastName": "Dissanayake",
  "doctorType": "Bachelor of Medical Sciences",
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