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Wings1 T1 Mini-project - Full-Stack Application

Open **Project** folder (you can find in desktop) in VS Code application

Backend Nodejs Part:

Type below code in `"/Desktop/Projects/wings.../Nodejs/routers/users.js"` file:

```
const express = require("express");
const Course = require("../mongoose/models/courses");

//setting up the student router

const usersRouter = new express.Router();

//write your code here

usersRouter.get('/courses/get', async (req, res) => {
  const data = await Course.find()
  res.status(200).json(data)
})

usersRouter.post('/courses/enroll/:id', async (req, res) => {
  const id = req.params.id;
  const getData = await Course.findById(id)
  if (!getData.isApplied) {
    po = {
      isApplied: true
    }
    await Course.findByIdAndUpdate(id, po)
    res.status(200).json({ message: "Sucessfully" })
  } else {
    res.status(403).json({ message: "not" })
  }
})

usersRouter.patch('/courses/rating/:id', async (req, res) => {
  const id = req.params.id;
  const getData = await Course.findById(id)
  if (!getData.isRated && getData.isApplied) {
    const body = req.body;
    const noOfRatings = getData.noOfRatings + 1;
    const finalRate = (((getData.noOfRatings * getData.rating) + body.rating)
/ noOfRatings).toFixed(1)
    pa = {
      isRated: true,
      rating: finalRate,
```

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```
        noOfRatings: noOfRatings
      }
      await Course.findByIdAndUpdate(id, pa)
      res.status(200).json({ message: "Sucessfully" })
    } else {
      res.status(403).json({ message: "Not" })
    }
  })

usersRouter.delete('/courses/drop/:id', async (req, res) => {
  const id = req.params.id;
  const getData = await Course.findById(id)
  if (getData.isApplied) {
    de = {
      isApplied: false
    }
    await Course.findByIdAndUpdate(id, de)
    res.status(200).json({ message: "Sucessfully" })
  } else {
    res.status(403).json({ message: "Not" })
  }
})

module.exports = usersRouter;
```

Frontend ReactJs Part:

Type below code in `"/Desktop/Projects/wings.../ReactJs/src/App.js"` file:

```
import React, { Component } from 'react';
import './App.css'

class Home extends Component {
  url = "http://localhost:8001/courses/"
  state = {
    show: false,
    data: [],
    rating: 1,
  }
  componentDidMount = () => {
    this.handleGetData()
  }

  handleGetData = () => {
```

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```
        fetch(this.url + "get")
            .then((res) => res.json())
            .then((json) => {
                this.setState({ data: json })
            })
    }

    handleApply = async (id) => {
        const requestOptions = {
            method: 'post',
            headers: { 'Content-Type': 'application/json' }
        };
        fetch(this.url + 'enroll/' + id, requestOptions)
            .then(() => {
                this.handleGetData()
            })
    };

    handleRating = (e) => {
        this.setState({ rating: e.target.value })
    }

    handleAddRating = async (id) => {
        const requestOptions = {
            method: 'PATCH',
            headers: { 'Content-Type': 'application/json' },
            body: JSON.stringify({ rating: this.state.rating })
        }
        fetch(this.url + "rating/" + id, requestOptions)
            .then(() => {
                this.handleGetData()
            })
    }

    handleDrop = async (id) => {
        const requestOptions = {
            method: 'DELETE',
            headers: { 'Content-Type': 'application/json' },
        };
        fetch(this.url + "drop/" + id, requestOptions)
            .then(() => {
                this.handleGetData()
            })
    }
}
```

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```
render() {
  return (
    <div className="home">
      <header>
        <h2>ABC Learning</h2>
      </header>
      <div className="cardContainer">
        {this.state.data.map(courses => {
          return (
            <div className="card">
              <ul>
                <div className="header">
                  <li>{courses.courseName}</li>
                  <li>{courses.courseDept}</li>
                  <li>{courses.description}</li>
                  {courses.isApplied &&
                    <li>
                      {!courses.isRated &&
                        <li>Rate:
                          <select
                            className="rating" name="rating" onChange={this.handleRating}>
                              <option>1</option>
                              <option>2</option>
                              <option>3</option>
                              <option>4</option>
                              <option>5</option>
                            </select>
                              <button className="rate"
                                onClick={() => this.handleAddRating(courses._id)}>Add</button>
                            </li>
                          </li>
                        }
                      {courses.isApplied &&
                        <button className="drop"
                          onClick={() => this.handleDrop(courses._id)}>Drop Course</button>
                      }
                    </li>
                  </li>
                </ul>
                {!courses.isApplied &&
                  <li><button className="btn"
                    onClick={() => this.handleApply(courses._id)}>Apply</button></li>
                }
              </div>
            <div className="footer">
```

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```

    <li>{courses.duration} hrs .
{courses.noOfRatings} Ratings . {courses.rating}/5</li>
    </div>
  </ul>
</div>
)
})}
    </div>
  </div>
);
}
}
export default Home

```

Install project dependencies by using `"sh install.sh"` command in the terminal and to run the application by using `"sh run.sh"`
To test the application `"sh test.sh "`