

Assignment-4

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Server.js

```
import express from 'express';
import mysql from 'mysql2';
import cors from 'cors';
import bodyParser from 'body-parser';

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

const db = mysql.createConnection({
  host: 'localhost',
  user: 'root',
  password: 'Gorakh@1973',
  database: 'vit_results'
});

db.connect(err => {
  if (err) {
    console.log('DB connection error:', err);
    return;
```

```

    }

    console.log('MySQL connected!');
  });

app.post('/addResult', (req, res) => {
  const { student_id, name, subjects } = req.body;

  db.query('INSERT INTO students (student_id, name) VALUES (?, ?)', [student_id, name],
  (err) => {
    if (err) return res.status(500).send(err);

    subjects.forEach(sub => {
      const total = (sub.mse * 0.3 + sub.esa * 0.7).toFixed(2);
      db.query(
        'INSERT INTO subjects (student_id, subject_name, mse, esa, total) VALUES (?, ?, ?,
        ?, ?)',
        [student_id, sub.subject_name, sub.mse, sub.esa, total]
      );
    });

    res.send({ message: 'Student result added successfully!' });
  });
});

app.get('/getResult/:student_id', (req, res) => {
  const student_id = req.params.student_id;

  db.query('SELECT * FROM students WHERE student_id = ?', [student_id], (err,
  studentResult) => {

```

```

    if (err || studentResult.length === 0) return res.status(404).send('Student not found');

    db.query('SELECT * FROM subjects WHERE student_id = ?', [student_id], (err,
subjectResults) => {

        if (err) return res.status(500).send(err);

        res.send({ student: studentResult[0], subjects: subjectResults });

    });

});

});

app.listen(5000, () => {

    console.log('Server running on port 5000');

});

```

App.jsx

```

import React, { useState } from 'react';
import ResultForm from './components/ResultForm';
import ViewResult from './components/ViewResult';
import './App.css';

function App() {

    const [view, setView] = useState('form');

    return (

        <>

            <nav className="navbar navbar-expand-lg navbar-dark bg-dark">

```

```

<div className="container">

  <span className="navbar-brand">VIT Result Portal</span>

  <div>

    <button className={`btn btn-${view === 'form' ? 'light' : 'outline-light'} mx-1`}
onClick={() => setView('form')}>
      Add Result
    </button>

    <button className={`btn btn-${view === 'result' ? 'light' : 'outline-light'} mx-1`}
onClick={() => setView('result')}>
      View Result
    </button>

  </div>

</div>

</nav>

```

```

<div className="container mt-4">

  {view === 'form' ? <ResultForm /> : <ViewResult />}

</div>

</>

);
}

```

```
export default App;
```

App.css

```

body {

  background-color: #f8f9fa;

  font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

```

```
display: flex;
flex-direction: column;
min-height: 100vh;
margin: 0;
}
```

```
.container {
  max-width: 800px;
  margin: 0 auto;
  width: 100%;
  padding: 0 15px;
}
```

```
.navbar {
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
  width: 100%;
}
```

```
.navbar>.container {
  display: flex;
  justify-content: space-between;
  align-items: center;
}
```

```
.navbar-brand {
  font-weight: 600;
  font-size: 1.5rem;
}
```

```
.btn {  
  transition: all 0.3s ease;  
}
```

```
.btn:hover {  
  transform: translateY(-1px);  
}
```

```
.mt-4 {  
  margin-top: 2rem;  
  display: flex;  
  justify-content: center;  
}
```

ResultForm.jsx

```
import React, { useState } from 'react';  
import axios from 'axios';  
import './ResultForm.css';  
  
const ResultForm = () => {  
  const [student, setStudent] = useState({ student_id: "", name: "" });  
  const [subjects, setSubjects] = useState([  
    { subject_name: 'Maths', mse: "", ese: "" },  
    { subject_name: 'Physics', mse: "", ese: "" },  
    { subject_name: 'Chemistry', mse: "", ese: "" },  
    { subject_name: 'CS', mse: "", ese: "" },  
  ])
```

```
]);
```

```
const handleChange = (index, field, value) => {  
  const newSubjects = [...subjects];  
  newSubjects[index][field] = value;  
  setSubjects(newSubjects);  
};
```

```
const handleSubmit = async (e) => {  
  e.preventDefault();  
  await axios.post('http://localhost:5000/addResult', {  
    ...student,  
    subjects  
  });  
  alert('✅ Result submitted!');  
};
```

```
return (  
  <div className="card shadow">  
    <div className="card-header bg-primary text-white">  
      <h4>Add Student Result</h4>  
    </div>  
    <div className="card-body">  
      <div className="mb-3 row">  
        <div className="col-md-6">  
          <input className="form-control" placeholder="Student ID" onChange={(e) =>  
setStudent({ ...student, student_id: e.target.value }} />  
        </div>
```

```
<div className="col-md-6">

  <input className="form-control" placeholder="Name" onChange={(e) =>
setStudent({ ...student, name: e.target.value })} />

</div>

</div>
```

```
{subjects.map((sub, i) => (

  <div className="mb-3 border p-3 rounded bg-light" key={i}>

    <h5>{sub.subject_name}</h5>

    <div className="row">

      <div className="col-md-6">

        <input

          type="number"

          className="form-control"

          placeholder="MSE (30%)"

          onChange={(e) => handleChange(i, 'mse', e.target.value)}

        />

      </div>

      <div className="col-md-6">

        <input

          type="number"

          className="form-control"

          placeholder="ESE (70%)"

          onChange={(e) => handleChange(i, 'ese', e.target.value)}

        />

      </div>

    </div>

  </div>

)}

</div>
```



```
    )}
```

```
    <button type="submit" className="btn btn-success mt-3" onClick={handleSubmit}>
```

```
      Submit Result
```

```
    </button>
```

```
  </div>
```

```
</div>
```

```
);
```

```
};
```

```
export default ResultForm;
```

ResultForm.css

```
.card {
```

```
  border: none;
```

```
  border-radius: 10px;
```

```
  overflow: hidden;
```

```
  width: 100%;
```

```
  max-width: 800px;
```

```
  margin: 0 auto;
```

```
}
```

```
.card-header {
```

```
  padding: 1.25rem;
```

```
  font-weight: 600;
```

```
  text-align: center;
```

```
}
```

```
.card-body {  
  padding: 2rem;  
}
```

```
.form-control {  
  border-radius: 5px;  
  padding: 10px 15px;  
  margin-bottom: 10px;  
  border: 1px solid #ced4da;  
  transition: border-color 0.3s;  
  width: 100%;  
}
```

```
.form-control:focus {  
  border-color: #80bdff;  
  box-shadow: 0 0 0 0.2rem rgba(0, 123, 255, 0.25);  
}
```

```
.btn-success {  
  background-color: #28a745;  
  border: none;  
  padding: 10px 25px;  
  font-weight: 500;  
  letter-spacing: 0.5px;  
  display: block;  
  margin: 0 auto;  
}
```

```
.btn-success:hover {  
  background-color: #218838;  
}
```

```
.subject-card {  
  background-color: #f8f9fa;  
  transition: transform 0.3s, box-shadow 0.3s;  
  margin-bottom: 1rem;  
}
```

```
.subject-card:hover {  
  transform: translateY(-3px);  
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);  
}
```

```
.mb-3.row {  
  display: flex;  
  justify-content: center;  
}
```

```
.mb-3.row>div {  
  flex: 1;  
  min-width: 0;  
}
```

ViewResult.jsx

```
import React, { useState } from 'react';
import axios from 'axios';
import './ViewResult.css';

const ViewResult = () => {
  const [studentID, setStudentID] = useState("");
  const [result, setResult] = useState(null);

  const fetchResult = async () => {
    try {
      const res = await axios.get(`http://localhost:5000/getResult/${studentID}`);
      setResult(res.data);
    } catch (err) {
      alert('No result found!');
    }
  };

  return (
    <div className="card shadow">
      <div className="card-header bg-secondary text-white">
        <h4>View Student Result</h4>
      </div>
      <div className="card-body">
        <div className="mb-3 row">
          <div className="col-md-8">
```

```
    <input className="form-control" placeholder="Enter Student ID" onChange={(e) =>
setStudentID(e.target.value)} />
```

```
  </div>
```

```
  <div className="col-md-4">
```

```
    <button className="btn btn-info w-100" onClick={fetchResult}>Get Result</button>
```

```
  </div>
```

```
</div>
```

```
{result && (
```

```
  <div className="mt-4">
```

```
    <h5>{result.student.name} {result.student.student_id}</h5>
```

```
    <table className="table table-hover mt-3">
```

```
      <thead className="table-dark">
```

```
        <tr>
```

```
          <th>Subject</th>
```

```
          <th>MSE (30%)</th>
```

```
          <th>ESE (70%)</th>
```

```
          <th>Total</th>
```

```
        </tr>
```

```
      </thead>
```

```
      <tbody>
```

```
        {result.subjects.map((sub, i) => (
```

```
          <tr key={i}>
```

```
            <td>{sub.subject_name}</td>
```

```
            <td>{sub.mse}</td>
```

```
            <td>{sub.es}</td>
```

```
            <td><strong>{sub.total}</strong></td>
```

```
          </tr>
```

```
        )})  
      </tbody>  
    </table>  
  </div>  
}  
</div>  
</div>  
);  
};
```

```
export default ViewResult;
```

ViewResult.css

```
.card {  
  border: none;  
  border-radius: 10px;  
  overflow: hidden;  
  width: 100%;  
  max-width: 800px;  
  margin: 0 auto;  
}
```

```
.card-header {  
  padding: 1.25rem;  
  font-weight: 600;  
  text-align: center;  
}
```

```
.card-body {  
  padding: 2rem;  
}
```

```
.form-control {  
  border-radius: 5px;  
  padding: 10px 15px;  
  border: 1px solid #ced4da;  
  transition: border-color 0.3s;  
  width: 100%;  
}
```

```
.form-control:focus {  
  border-color: #80bdff;  
  box-shadow: 0 0 0 0.2rem rgba(0, 123, 255, 0.25);  
}
```

```
.btn-info {  
  background-color: #17a2b8;  
  border: none;  
  padding: 10px;  
  font-weight: 500;  
  letter-spacing: 0.5px;  
  width: 100%;  
}
```

```
.btn-info:hover {
```

```
background-color: #138496;  
}
```

```
.table {  
    margin-top: 20px;  
    border-radius: 5px;  
    overflow: hidden;  
    width: 100%;  
}
```

```
.table th {  
    background-color: #343a40;  
    color: white;  
    font-weight: 500;  
    text-align: center;  
}
```

```
.table td,  
.table th {  
    padding: 12px 15px;  
    vertical-align: middle;  
    text-align: center;  
}
```

```
.table-hover tbody tr:hover {  
    background-color: rgba(0, 0, 0, 0.03);  
}
```



```
.table-dark {  
    background-color: #343a40;  
}
```

```
.student-info {  
    padding: 15px;  
    background-color: #f8f9fa;  
    border-radius: 5px;  
    margin-bottom: 20px;  
    text-align: center;  
}
```

```
.mb-3.row {  
    display: flex;  
    justify-content: center;  
}
```

```
.mb-3.row>div {  
    flex: 1;  
    min-width: 0;  
}
```

Output:

VIT Result Portal

Add ResultView Result

Add Student Result

Student ID

Name

Maths

MSE (30%)

ESE (70%)

Physics

MSE (30%)

ESE (70%)

Chemistry

MSE (30%)

ESE (70%)

Student ID

Name

Maths

MSE (30%)

ESE (70%)

Physics

MSE (30%)

ESE (70%)

Chemistry

MSE (30%)

ESE (70%)

CS

MSE (30%)

ESE (70%)

Submit Result

VIT Result Portal

Add ResultView Result

Add Student Result

122345678

Raju

Maths

100

100

Physics

95

94

Chemistry

97

98

122345678

Raju

Maths

100

100

Physics

95

94

Chemistry

97

98

CS

93

99

Submit Result

VIT Result Portal

Add ResultView Result

View Student Result

Enter Student ID

Get Result

VIT Result Portal

Add ResultView Result

View Student Result

122345678

Get Result

View Student Result

122345678

[Get Result](#)Raju
(122345678)

Subject	MSE (30%)	ESE (70%)	Total
Maths	100	100	100
Physics	95	94	94.3
Chemistry	97	98	97.7
CS	93	99	97.2