ASSIGNMENT-2

1602-21-733-064

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CSE-A

1)Develop a web application which keeps track of data about students academic background and helps HR manager to generate eligibility list wrt a Company. There should be provision to capture the data of a candidate through multiple forms. Use the appropriate styling for creating rich interface and perform the necessary validation using JavaScript.

Program:

```
// StudentForm.js
import React, { useState } from 'react';
const StudentForm = ({ onSubmit }) => {
  const [name, setName] = useState('');
  const [rollNumber, setRollNumber] = useState('');
  const [cgpa, setCGPA] = useState('');
  const [backlogs, setBacklogs] = useState('');
  const [branch, setBranch] = useState('');
  const [languages, setLanguages] = useState('');
  const handleSubmit = (e) => {
    e.preventDefault();
    onSubmit({
      name,
      rollNumber,
      cgpa: parseFloat(cgpa),
      backlogs: parseInt(backlogs),
      branch,
      languages: languages.split(',').map((lang) => lang.trim()),
  })};
  return (
    <form onSubmit={handleSubmit}>
      <div>
```

```
<label>Name:</label>
        <input type="text" value={name} onChange={(e) =>
setName(e.target.value)} required />
      </div>
      <div>
        <label>Roll Number:</label>
        <input type="text" value={rollNumber} onChange={(e) =>
setRollNumber(e.target.value)} required />
      </div>
      <div>
        <label>CGPA:</label>
        <input type="number" step="0.01" value={cgpa} onChange={(e) =>
setCGPA(e.target.value)} required />
      </div>
      <div>
        <label>Backlogs:</label>
        <input type="number" value={backlogs} onChange={(e) =>
setBacklogs(e.target.value)} required />
      </div>
      <div>
        <label>Branch:</label>
        <input type="text" value={branch} onChange={(e) =>
setBranch(e.target.value)} required />
      </div>
      <div>
        <label>Languages Known (comma-separated):</label>
        <input type="text" value={languages} onChange={(e) =>
setLanguages(e.target.value)} required />
      </div>
      <div>
        <button type="submit">Save and next</button>
      </div>
    </form>
  );
};
```

```
export default StudentForm;
// StudentList.js
import React from 'react';
const StudentList = ({ students, showAllDetails }) => {
 return (
  <div className="students">
   <h2>All Students</h2>
   <thead>
      Name
       Roll Number
       CGPA
       Backlogs
       Branch
       Languages Known
     </thead>
    {students.map((student, index) => (
       {student.name}
        {student.rollNumber}
        {student.cgpa}
        {student.backlogs}
        {student.branch}
        {student.languages.join(',
')}
       ))}
    </div>
```

```
);
};
export default StudentList;
/* App.css */
body {
  font-family: 'Arial', sans-serif;
  background-color: #f5f5f5;
  margin: 0;
  padding: 0;
  display: flex;
  align-items: center;
  justify-content: center;
  height: 100vh;
}
.container {
  max-width: 400px;
  width: 100%;
  padding: 20px;
}
form {
  background-color: #fff;
  padding: 20px;
  border-radius: 8px;
  box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
}
label {
  display: block;
 margin-bottom: 8px;
}
input {
  width: 100%;
  padding: 4px;
  margin-bottom: 16px;
```

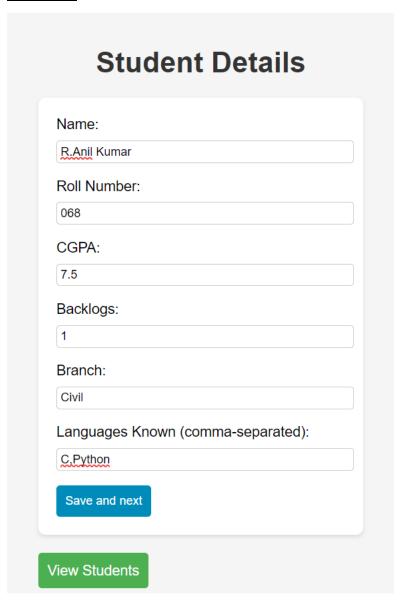
```
border: 1px solid #ccc;
  border-radius: 4px;
}
h1, h2 {
  color: #333;
 text-align: center;
}
hr {
  border: 0;
  height: 1px;
  background-color: #ccc;
  margin: 20px 0;
.button-container {
  display: flex;
  justify-content: space-between;
  align-items: center; /* Center items vertically */
  margin-top: 20px; /* Add margin to separate from the form */
}
.button-link,
button {
  padding: 10px;
  text-align: center;
  text-decoration: none;
  color: #fff;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}
.button-link {
  background-color: #4caf50;
}
.button-link:hover {
```

```
background-color: #45a049;
}
button {
  background-color: #008CBA;
}
button:hover {
  background-color: #0077a3;
}
table {
  border-collapse: collapse;
  width: 100%;
}
th, td {
  border: 1px solid #ddd;
  padding: 8px;
  text-align: left;
}
th {
  background-color: #4CAF50;
  color: white;
}
// App.js
import React, { useState } from 'react';
import { BrowserRouter as Router, Route, Routes, Link } from 'react-router-
dom';
import StudentForm from './StudentForm';
import StudentList from './StudentList';
import './App.css';
const App = () => {
  const [students, setStudents] = useState([]);
  const [minCGPA, setMinCGPA] = useState(0);
  const [eligibleStudents, setEligibleStudents] = useState([]);
  const addStudent = (student) => {
```

```
setStudents([...students, student]);
  };
  const handleFilter = () => {
    const filtered = students.filter(
      (student) => student.cgpa >= minCGPA && student.backlogs === 0
    );
    setEligibleStudents(filtered);
  };
  const showAllDetails = eligibleStudents.length === 0;
  return (
    <Router>
      <div className="container">
        <Routes>
          <Route
            path="/"
            element={
              <>
                <h1>Student Details</h1>
                <StudentForm onSubmit={addStudent} />
                <div className="button-container">
                  <Link to="/view" className="button-link">View
Students</Link>
                </div>
              </>
            }
          />
          <Route
            path="/view"
            element={
              <>
                <StudentList students={students}
showAllDetails={showAllDetails} />
                <div>
```

```
<br></br><label>Enter Minimum CGPA:</label>
             <input</pre>
               type="number"
               step="0.01"
               value={minCGPA}
               onChange={(e) => setMinCGPA(parseFloat(e.target.value))}
             />
             <button onClick={handleFilter}>Submit</button>
            </div>
            {eligibleStudents.length > 0 && (
             <div className="students">
               <h2>Eligible Students</h2>
               <thead>
                  Name
                   Roll
Number
                   CGPA
                   Languages
Known
                  </thead>
                {eligibleStudents.map((student, index) => (
                   <td style={{ whiteSpace: 'nowrap'
{student.rollNumber}
                     {student.cgpa}
                     <td style={{ whiteSpace: 'nowrap'
}}>{student.languages.join(', ')}
                   ))}
```

Output:



	All Students					
Name	Roll Number	CGPA	Backlogs	Branch	Languages Known	
K.Vishal Reddy	064	8.41	0	cse	c, py, java, dsa	
R.Anil Kumar	068	7.5	1	Civil	C, Python	
Submit	igible Stu	dents				
EI						
Name	Roll Number	CGPA	Languages	s Known		

(Even though Anil has more cgpa than minimum cgpa but he also has 1 backlog therefore he is not eligible.)