Assignment No : 11

```
<!DOCTYPE html>
<html>
 <head>
  <title>Grid Component</title>
  <script src="https://unpkg.com/vue@3"></script>
  <link rel="stylesheet" type="text/css" href="SDL-11.css" />

  <!-- component template -->
  <script type="text/x-template" id="grid-template">
   <table>
    <thead>
     <tr>
      <th v-for="key in columns"
       @click="sortBy(key)"
       :class="{ active: sortKey == key }">
       {{ key  }}
       <span class="arrow" :class="sortOrders[key] > 0 ? 'asc' : 'dsc'">
       </span>
      </th>
     </tr>
    </thead>
    <tbody>
     <tr v-for="entry in filteredPeoples">
      <td v-for="key in columns">
       {{entry[key]}}
      </td>
     </tr>
    </tbody>
   </table>
```

```
 </script>
</head>
<body>
 <!-- demo root element -->
 <div id="demo">
  <form id="search">
   Search <input name="query" v-model="searchQuery" /> <br>
   Name <input name="name " v-model="nameVM" /> <br>
   Age <input name="age  " v-model="ageVM" /> <br>
   Grade <input name="grade" v-model="gradeVM" /> <br>
   <input type="button" value="add" name="add" @click="addPerson"/>
  </form>
  <br>
  <br>
  <demo-grid
   :peoples="gridData"
   :columns="gridColumns"
   :filter-key="searchQuery"
  >
  </demo-grid>
 </div>

 <script>
 const { createApp } = Vue

 // bootstrap the demo
 const app = createApp({
    data: function() {
        return {
            searchQuery: "",
            gridColumns: ["name", "age", "grade"],
```

```
        nameVM: "",
        ageVM: "",
        gradeVM: "",
        gridData: [
          { name: "Virat Kolhi", age: 22, grade: 'A+' },
          { name: "MS Dhoni", age: 25, grade: 'B+' },
          { name: "Sachin Tendulkar", age: 31, grade: 'A-' },
          { name: "Ravindra Jadeja", age: 30, grade: 'B-' }
        ]
    }
  },
  methods: {
    addPerson: function(){
      this.gridData.push({name: this.nameVM, age: this.ageVM, grade: this.gradeVM});
      this.nameVM = this.gradeVM = this.ageVM = ""
    }
  }
});

// register the grid component
app.component("demo-grid",
{
  template: "#grid-template",
  props: {
    peoples: Array,
    columns: Array,
    filterKey: String
  },
  data: function() {
    var sortOrders = {};
    this.columns.forEach(function(key) {
```

```
    sortOrders[key] = 1;
  });
  return {
    sortKey: "",
    sortOrders: sortOrders
  };
},
computed: {
  filteredPeoples: function() {
    var sortKey = this.sortKey;
    var filterKey = this.filterKey && this.filterKey.toLowerCase();
    var order = this.sortOrders[sortKey] || 1;
    var peoples = this.peoples;
    if (filterKey) {
      peoples = peoples.filter(function(row) {
      return Object.keys(row).some(function(key) {
        return (
          String(row[key])
            .toLowerCase()
            .indexOf(filterKey) > -1
        );
      });
    });
    }
    if (sortKey) {
      peoples = peoples.slice().sort(function(a, b) {
      a = a[sortKey];
      b = b[sortKey];
      return (a === b ? 0 : a > b ? 1 : -1) * order;
    });
    }
```

```
        return peoples;
      }
    },
    filters: {
      capitalize: function(str) {
        return str.charAt(0).toUpperCase() + str.slice(1);
      }
    },
    methods: {
      sortBy: function(key) {
        this.sortKey = key;
        this.sortOrders[key] = this.sortOrders[key] * -1;
      }
    }
  }
  );

  app.mount("#demo");
 </script>
</body>
</html>
```

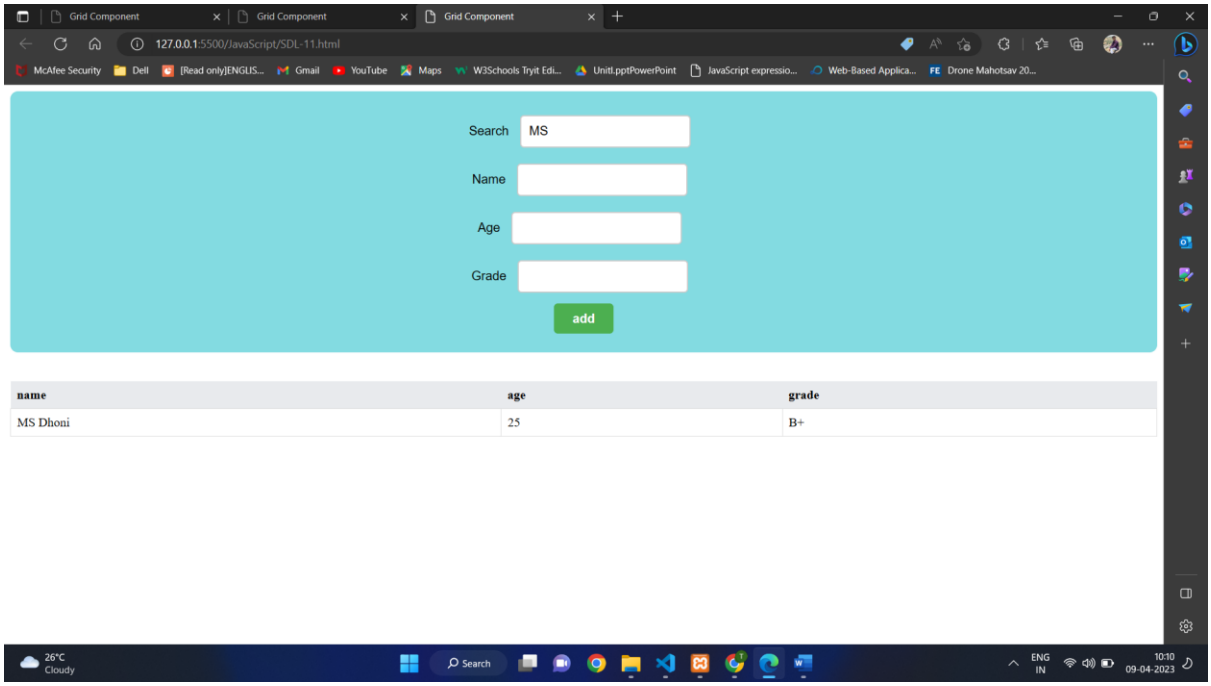
CSS:

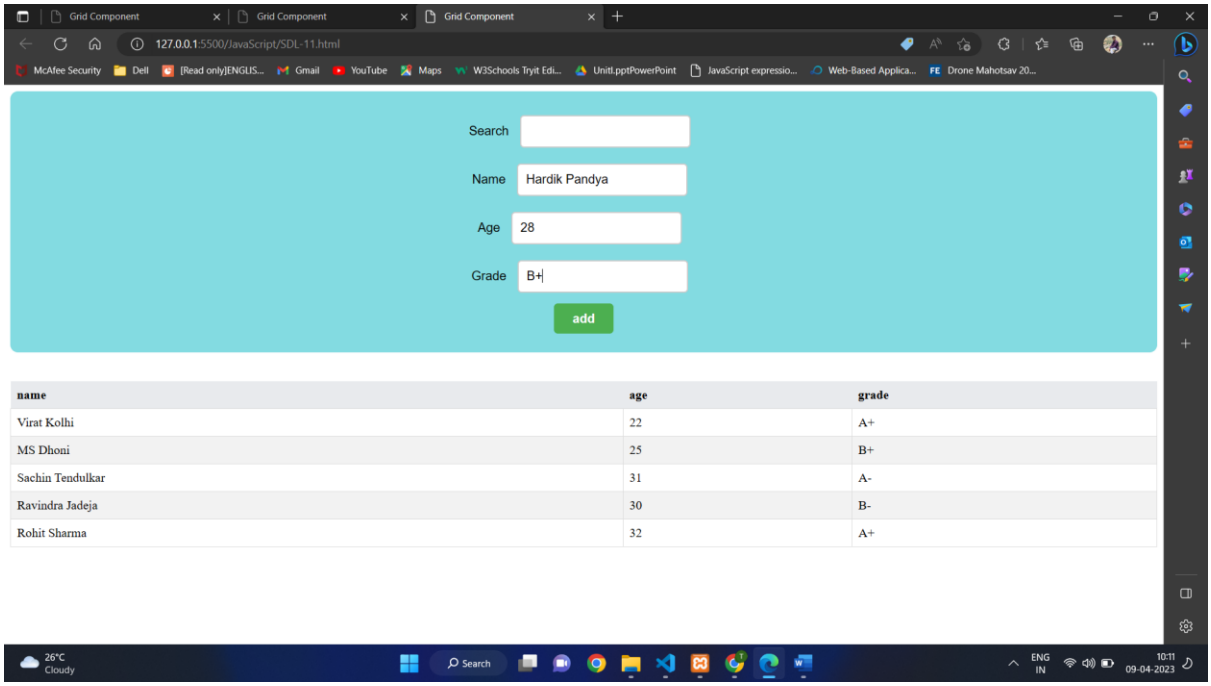
```
#search {
  text-align: center;
  font-family: Arial, sans-serif;
  background-color: #83dbe1;
  padding: 20px;
  border-radius: 10px;
}
```

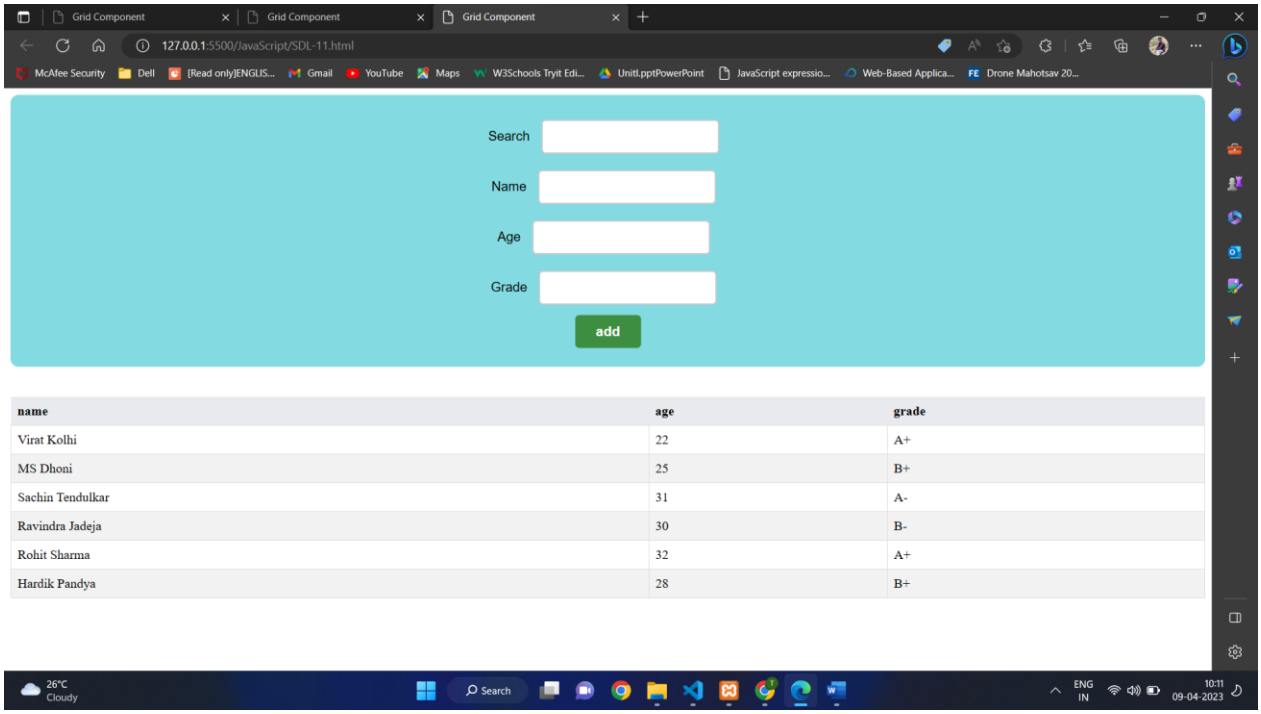
```
#search input {
  margin: 10px;
  padding: 10px;
  border-radius: 5px;
  border: 2px solid #ccc;
  font-size: 16px;
  outline: none;
  transition: all 0.3s ease-in-out;
}

#search input[type="button"] {
  background-color: #4CAF50;
  color: white;
  font-weight: bold;
  border: none;
  border-radius: 5px;
  padding: 10px 20px;
  cursor: pointer;
  transition: all 0.3s ease-in-out;
}

#search input[type="button"]:hover {
  background-color: #3e8e41;
  transform: scale(1.05);
}

#search input[type="button"]:active {
  background-color: #3e8e41;
  box-shadow: 0 5px #666;
  transform: translateY(4px);
}
```

```
table {
  border-collapse: collapse;
  width: 100%;
}
th {
  background-color: #e8eaed;
  font-weight: bold;
  text-align: left;
  padding: 8px;
  cursor: pointer;
  user-select: none;
}
th.active {
  background-color: #c0c0c0;
}
.arrow {
  display: inline-block;
  vertical-align: middle;
  width: 0;
  height: 0;
  margin-left: 5px;
  border-top: 4px solid transparent;
  border-bottom: 4px solid transparent;
}
.asc {
  border-bottom: 4px solid #000;
}
.dsc {
  border-top: 4px solid #000;
}
```

```
td {
  border: 1px solid #ddd;
  padding: 8px;
  text-align: left;
}
tr:nth-child(even) {
  background-color: #f2f2f2;
}
tr:hover {
  background-color: #e0e0e0;
}
#search input[type="button"] {
  background-color: #4CAF50;
  color: white;
  border: none;
  padding: 10px 24px;
  text-decoration: none;
  margin: 4px 2px;
  cursor: pointer;
}
#search input[type="button"]:hover {
  background-color: #3e8e41;
}
```


Grid Component
Grid Component
Grid Component
127.0.0.1:5500/JavaScript/SDL-11.html
Search
MS
Name
Age
Grade
add
name
age
grade
MS Dhoni
25
B+


Grid Component
Grid Component
Grid Component
127.0.0.1:5500/JavaScript/SDL-11.html
Search
Name
Hardik Pandya
Age
28
Grade
B+
add
name
age
grade
Virat Kolhi
22
A+
MS Dhoni
25
B+
Sachin Tendulkar
31
A-
Ravindra Jadeja
30
B-
Rohit Sharma
32
A+


Grid Component
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Grid Component
127.0.0.1:5500/JavaScript/SDL-11.html
McAfee Security
Dell
[Read only]ENGLIS...
Gmail
YouTube
Maps
W3Schools Tryit Edi...
Unit1.pptPowerPoint
JavaScript expressio...
Web-Based Applica...
Drone Mahotsav 20...
Search
Name
Age
Grade
add
name
age
grade
Virat Kolhi
22
A+
MS Dhoni
25
B+
Sachin Tendulkar
31
A-
Ravindra Jadeja
30
B-
Rohit Sharma
32
A+
Hardik Pandya
28
B+
26°C
Cloudy
Search
ENG
IN
10:11
09-04-2023