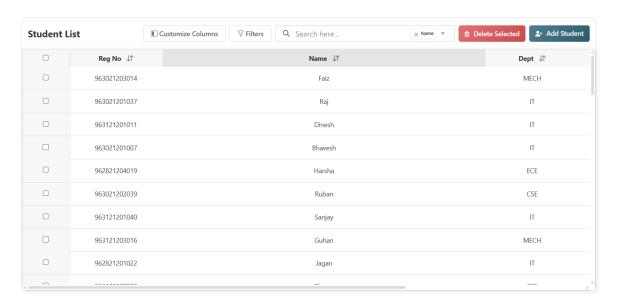
OUTPUT:

Support for column resizing.



index.html

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title>Ember-Student-List</title>
<meta name="description" content="">
<meta name="viewport" content="width=device-width, initial-scale=1">

{{content-for "head"}}

link integrity="" rel="stylesheet" href="{{rootURL}}assets/vendor.css">
link integrity="" rel="stylesheet" href="{{rootURL}}assets/ember-student-list.css">
```

```
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-</pre>
awesome/6.7.2/css/all.min.css" integrity="sha512-
Evv84Mr4kqVGRNSgIGL/F/aIDqQb7xQ2vcrdIwxfjThSH8CSR7PBEakCr51Ck+w+/U6swU2Im1v
VX0SVk9ABhg==" crossorigin="anonymous" referrerpolicy="no-referrer" />
  k rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-</pre>
icons@1.11.3/font/bootstrap-icons.min.css">
 {{content-for "head-footer"}}
 </head>
 <body>
  {{content-for "body"}}
  <script src="{{rootURL}}assets/vendor.js"></script>
  <script src="{{rootURL}}assets/ember-student-list.js"></script>
  {{content-for "body-footer"}}
 </body>
</html>
templates/application.hbs
```

{{outlet}}
<BasicDropdownWormhole />

templates/students.hbs

<nav class="navbar">

```
<div class="navbar-title"><i class="fa-solid fa-graduation-cap"></i>Student Management
System</div>
  <div class="toggle-profile">
    <button id="theme-toggle-btn" {{on "click" this.toggleTheme}}>
      {{#if this.isDarkMode}}
      <i class="bi bi-sun"></i>
      {{else}}
      <i class="bi bi-moon-stars"></i>
      {{/if}}
    </button>
    <i class="bi bi-person-circle"></i>
  </div>
</nav>
{{#each this.flashMessages.queue as |flash|}}
<FlashMessage @flash={{flash}} @messageStyle='bootstrap' />
{{/each}}
<div
  class="{{if (or (eq this.currentRoute 'students.add') (eq this.currentRoute 'students.edit')}
'full-screen-outlet' "}}">
  {{liquid-outlet}}
</div>
<div class="student-container">
  <div class="search-dlt-cont">
    <div><span>Student List</span></div>
    <div class="search-cd-cont">
```

```
<button class="btn-filter" {{on "click" this.toggleCustomize}}>
        <i class="bi bi-layout-sidebar-inset"></i> Customize Columns
      </button>
      {{#if this.isCustomizeVisible}}
      <div class="customize-column" {{on-click-outside this.toggleCustomize}}>
        <span {{on "click" this.toggleCustomize}} {{on-key 'Escape' this.toggleCustomize}}</pre>
          class="close-modal"><i class="fa-solid fa-xmark"></i></span>
        <strong>Columns</strong>
        >Drag to sort columns
        {{#each this.items as |col|}}
          {{sortable-item model=col}}>
            <div>
              <label>
                <input type="checkbox" checked={{this.isColumnVisible col.key}} {{on
"change" (fn
                  this.toggleColumnVisibility col.key)}} />
                {{capitalize col.label}}
              </label>
              <span class="handle" {{sortable-handle}}><i class="bi bi-list"></i></span>
            </div>
          {{/each}}
        </div>
      {{/if}}
      <button class="btn-filter" {{on "click" this.toggleFilter}}>
```

```
<i class="bi bi-funnel"></i> Filters
       </button>
       {{#if this.isFilterVisible}}
       <div class="advanced-filters" {{on-click-outside this.toggleFilter}}>
         <span {{on "click" this.toggleFilter}} {{on-key 'Escape' this.toggleFilter}} class="close-</pre>
modal"><i
              class="fa-solid fa-xmark"></i></span>
         <div class="filter-section">
           <strong>Departments</strong>
           <div class="filter-dept">
              {{#each this.availableDepartments as |dept|}}
              <label>
                <input type="checkbox" value={{dept}} {{on "change" this.updateDeptFilter}}</pre>
                   checked={{this.isDeptChecked dept}} />
                {{dept}}
              </label>
              {{/each}}
           </div>
         </div>
         <div class="filter-section">
           <strong>Skills:</strong>
           <div class="filter-skill">
              {{#each this.availableSkills as |skill|}}
              <label>
                <input type="checkbox" value={{skill}} {{on "change" this.updateSkillsFilter}}</pre>
                   checked={{includes this.filter.skills skill}} />
                {{skill}}
```

```
</label>
             {{/each}}
          </div>
        </div>
        <button type="button" {{on "click" this.applyFilter}} class="btn-cd filter">Apply
Filters</button>
        <button type="button" {{on "click" this.clearAllFilters}} class="btn-cd cancel">Clear
All</button>
      </div>
      {{/if}}
      <div class="search-cont">
        <i class="fa-solid fa-magnifying-glass"></i>
        <input type="text" id="search" placeholder="Search here..." {{on "keyup"
this.handleSearch}}>
        <div class="power-select-wrapper">
          <PowerSelectMultiple @selected={{this.selectedColumnValues}}
@options={{this.searchColumnOptions}}
             @onChange={{this.updateSearchColumns}} @placeholder="Search by"
@searchEnabled={{false}} as
             |option|>
             {{option.label}}
          </PowerSelectMultiple>
        </div>
      </div>
      <button {{on "click" this.bulkDelete}} class="btn-cd dlt" {{on-key 'Delete'
this.bulkDelete}}>
        <i class="fa-regular fa-trash-can"></i> Delete Selected
      </button>
      <LinkTo @route="students.add" class="btn-cd add" {{on-key 'alt+a' this.addStud}}>
```

```
<i class="fa-solid fa-user-plus"></i> Add Student
      </LinkTo>
    </div>
  </div>
  <StudentList @items={{this.items}} @students={{this.students.filteredStudents}}
@deleteRow={{this.deleteRow}}
    @editRow={{this.editRow}} @toggleSelectAll={{this.toggleSelectAll}}
@selectAll={{this.selectAll}}
    @sortByName={{this.sortByName}} @isAscending={{this.isAscending}}
@visibleColumns={{this.visibleColumns}}
    @sortKey={{this.sortKey}} @sortByKey={{this.sortByKey}} />
</div>
templates/students/add.hbs
<div {{on-click-outside this.closeForm}}>
  <StudentForm @addRow={{this.addRow}} @closeForm={{this.closeForm}} />
</div>
templates/students/edit.hbs
<div {{on-click-outside this.closeForm}}>
 <StudentForm @editStudent={{this.model}} @students={{this.students.students}}
@saveStudent={{this.saveStudent}}
  @updateStudents={{this.updateStudents}} @closeForm={{this.closeForm}} />
</div>
services/students.js
import Service from '@ember/service';
import { tracked } from '@glimmer/tracking';
```

```
export default class StudentsService extends Service {
 @tracked students = [
  { name: "Faiz", reg: 963021203014, dept: "MECH", clg: "CIT", skills: ["Spring Boot", "CSS"]
},
  { name: "Raj", reg: 963021201037, dept: "IT", clg: "CIT", skills: ["React", "Flutter"] },
  { name: "Dinesh", reg: 963121201011, dept: "IT", clg: "MIT", skills: ["JavaScript", "HTML"]
},
  { name: "Bhavesh", reg: 963021201007, dept: "IT", clg: "CIT", skills: ["Flutter", "Spring
Boot"] },
  { name: "Harsha", reg: 962821204019, dept: "ECE", clg: "UCEN", skills: ["MySQL", "HTML"]
},
  { name: "Ruban", reg: 963021202039, dept: "CSE", clg: "CIT", skills: ["HTML", "CSS"] },
  { name: "Sanjay", reg: 963121201040, dept: "IT", clg: "MIT", skills: ["Node.js", "Spring
Boot"] },
  { name: "Guhan", reg: 963121203016, dept: "MECH", clg: "MIT", skills: ["Flutter", "React"]
},
  { name: "Jagan", reg: 962821201022, dept: "IT", clg: "UCEN", skills: ["React", "Spring"]
Boot"] },
  { name: "Charan", reg: 963121202008, dept: "CSE", clg: "MIT", skills: ["CSS", "MySQL"] },
  { name: "Vijay", reg: 962821204047, dept: "ECE", clg: "UCEN", skills: ["Flutter", "MySQL"]
},
  { name: "Manoj", reg: 962821201030, dept: "IT", clg: "UCEN", skills: ["JavaScript", "React"]
},
  { name: "Kiran", reg: 962821203026, dept: "MECH", clg: "UCEN", skills: ["CSS", "Flutter"] },
  { name: "Surya", reg: 963121203043, dept: "MECH", clg: "MIT", skills: ["React", "Flutter"] },
  { name: "Dev", reg: 963021201010, dept: "IT", clg: "CIT", skills: ["React", "HTML"] },
  { name: "Aswin", reg: 962821203005, dept: "MECH", clg: "UCEN", skills: ["Node.js",
"MySQL"] },
  { name: "Yogesh", reg: 962821203049, dept: "MECH", clg: "UCEN", skills: ["Spring Boot",
"CSS"] },
```

```
{ name: "Lokesh", reg: 963021204029, dept: "ECE", clg: "CIT", skills: ["Flutter", "MySQL"] },
  { name: "Kavin", reg: 963121202027, dept: "CSE", clg: "MIT", skills: ["Spring Boot",
"React"] },
  { name: "Omprakash", reg: 962821203034, dept: "MECH", clg: "UCEN", skills: ["CSS",
"HTML"] },
  { name: "Ethan", reg: 962821202012, dept: "CSE", clg: "UCEN", skills: ["Node.js",
"JavaScript"] },
  { name: "Ajay", reg: 963021204003, dept: "ECE", clg: "CIT", skills: ["Spring Boot", "MySQL"]
},
  { name: "Zaid", reg: 963021201050, dept: "IT", clg: "CIT", skills: ["Node.js", "HTML"] },
  { name: "Abishek", reg: 962821202002, dept: "CSE", clg: "UCEN", skills: ["Spring Boot",
"Flutter"] },
  { name: "Irfan", reg: 963021202021, dept: "CSE", clg: "CIT", skills: ["Spring Boot",
"JavaScript"] },
  { name: "Hari", reg: 963021202017, dept: "CSE", clg: "CIT", skills: ["CSS", "HTML"] },
  { name: "Elavarasan", reg: 962821201013, dept: "IT", clg: "UCEN", skills: ["HTML", "React"]
},
  { name: "Nithin", reg: 963021201033, dept: "IT", clg: "CIT", skills: ["Node.js", "CSS"] },
  { name: "Lalith", reg: 963021202028, dept: "CSE", clg: "CIT", skills: ["HTML", "MySQL"] },
  { name: "Sathish", reg: 962821201041, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"Node.js"] },
  { name: "Udhay", reg: 963121202045, dept: "CSE", clg: "MIT", skills: ["JavaScript",
"MySQL"] },
  { name: "Keerthi", reg: 962821203025, dept: "MECH", clg: "UCEN", skills: ["React", "CSS"]
},
  { name: "Deepak", reg: 962821201009, dept: "IT", clg: "UCEN", skills: ["JavaScript", "Spring
Boot"] },
  { name: "Jeeva", reg: 962821201023, dept: "IT", clg: "UCEN", skills: ["HTML", "Node.js"] },
  { name: "Aakash", reg: 962821201001, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"React"] },
  { name: "Praveen", reg: 963121204036, dept: "ECE", clg: "MIT", skills: ["MySQL", "HTML"]
},
```

```
{ name: "Karthik", reg: 963121201024, dept: "IT", clg: "MIT", skills: ["Flutter", "React"] },
  { name: "Muhamad", reg: 962821201031, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"React"] },
  { name: "Harish", reg: 962821201018, dept: "IT", clg: "UCEN", skills: ["Node.js", "CSS"] },
  { name: "Arun", reg: 963121201004, dept: "IT", clg: "MIT", skills: ["React", "Spring Boot"] },
  { name: "Pranav", reg: 962821202035, dept: "CSE", clg: "UCEN", skills: ["MySQL",
"JavaScript"] },
  { name: "Venkatesh", reg: 963021203046, dept: "MECH", clg: "CIT", skills: ["React",
"Flutter"] },
  { name: "Imran", reg: 963121202020, dept: "CSE", clg: "MIT", skills: ["Node.js",
"JavaScript"] },
  { name: "Gokul", reg: 962821204015, dept: "ECE", clg: "UCEN", skills: ["MySQL", "Flutter"]
},
  { name: "Naveen", reg: 963121202032, dept: "CSE", clg: "MIT", skills: ["Spring Boot",
"Node.js"] },
  { name: "Vimal", reg: 963121202048, dept: "CSE", clg: "MIT", skills: ["React", "CSS"] },
  { name: "Bala", reg: 962821202006, dept: "CSE", clg: "UCEN", skills: ["CSS", "Node.js"] },
  { name: "Tharun", reg: 962821204044, dept: "ECE", clg: "UCEN", skills: ["HTML", "CSS"] },
  { name: "Ragul", reg: 962821203038, dept: "MECH", clg: "UCEN", skills: ["Node.js",
"Flutter"] }
1;
@tracked filteredStudents = this.students;
  searchStudents(query, searchColumns = ['name', 'dept', 'clg']) {
    query = query.toLowerCase();
    this.filteredStudents = this.students.filter(student => {
     return searchColumns.some(column => {
      switch(column) {
       case 'reg':
```

```
return student.reg.toString().toLowerCase().includes(query);
       case 'skills':
        return student.skills.join(' ').toLowerCase().includes(query);
       case 'name':
       case 'dept':
       case 'clg':
        return student[column]?.toLowerCase().includes(query);
       default:
        return false;
      }
     });
    });
   }
}
routes/students.js
import Route from '@ember/routing/route';
export default class StudentsRoute extends Route {}
routes/students/add.js
import Route from '@ember/routing/route';
export default class StudentsAddRoute extends Route { }
routes/students/edit.js
import Route from '@ember/routing/route';
import { service } from '@ember/service';
export default class StudentsEditRoute extends Route {
  @service students;
```

```
model(params) {
    return this.students.students.find(student => student.reg == Number(params.reg));
  }
}
controllers/students.js
import Controller from '@ember/controller';
import { action } from '@ember/object';
import { tracked } from '@glimmer/tracking';
import { service } from '@ember/service';
import { htmlSafe } from '@ember/template';
export default class StudentsController extends Controller {
 @service router;
 @service students;
 @service flashMessages;
 @tracked isFormVisible = false;
 @tracked editStudent = null;
 @tracked selectAll = false;
 @tracked isDarkMode = false;
 @tracked sortKey = 'name';
 @tracked isAscending = true;
 @tracked recentlyDeletedStudents = [];
 @tracked isFilterVisible = false;
```

```
@tracked filter = {
depts: [],
skills: []
};
@tracked isCustomizeVisible = false;
@tracked visibleColumns = ['reg', 'name', 'dept', 'skills', 'clg'];
@tracked searchColumns = ['name'];
@tracked lastSearchQuery = ";
searchColumnOptions = [
{ value: 'name', label: 'Name' },
{ value: 'reg', label: 'Reg No' },
 { value: 'dept', label: 'Dept' },
{ value: 'skills', label: 'Skills' },
{ value: 'clg', label: 'College' }
];
@tracked items = [
{ key: "reg", label: "Reg No", width: 200 },
{ key: "name", label: "Name", width: 150 },
{ key: "dept", label: "Department", width: 150 },
{ key: "skills", label: "Skills", width: 150 },
{ key: "clg", label: "College", width: 150 }
];
@action reorderItems(itemModels, draggedModel) {
```

```
this.items = itemModels;
this.lastDragged = draggedModel;
}
get isDeptChecked() {
return (dept) => {
  return this.filter.depts.includes(dept);
};
}
get currentRoute() {
return this.router.currentRouteName;
}
@action makeResizable(th) {
let resizer = th.querySelector('.resizer');
if (!resizer) return;
const minWidth = 200;
let startX, startWidth;
const onMouseDown = (e) => {
  startX = e.pageX;
  startWidth = th.offsetWidth;
  document.addEventListener('mousemove', onMouseMove);
  document.addEventListener('mouseup', onMouseUp);
```

```
};
 const onMouseMove = (e) => {
  let diff = e.pageX - startX;
  let newWidth = startWidth + diff;
  if (newWidth < minWidth) return;
  th.style.width = `${newWidth}px`;
};
 const onMouseUp = () => {
  document.removeEventListener('mousemove', onMouseMove);
  document.removeEventListener('mouseup', onMouseUp);
};
resizer.addEventListener('mousedown', onMouseDown);
}
@action toggleFilter() {
this.isFilterVisible = !this.isFilterVisible;
}
@action toggleCustomize() {
this.isCustomizeVisible = !this.isCustomizeVisible;
}
get availableDepartments() {
```

```
let depts = this.students.students.map(student => student.dept);
return [...new Set(depts)];
}
get availableSkills() {
let allSkills = this.students.students.flatMap(student => student.skills | | []);
return [...new Set(allSkills)];
}
@action applyFilter() {
this.isFilterVisible = !this.isFilterVisible;
this.students.filteredStudents = this.students.students.filter(student => {
  let { depts, skills } = this.filter;
  if (depts.length && !depts.includes(student.dept)) {
   return false;
  }
  if (skills.length && !skills.every(skill => student.skills.includes(skill))) {
   return false;
  }
  return true;
});
this.flashMessages.success(htmlSafe('<i class="bi bi-check-circle-fill"></i> Filters applied'));
}
@action clearAllFilters() {
```

```
this.filter = {
  depts: [],
  skills: []
 };
 this.isFilterVisible = false;
 this.students.filteredStudents = [...this.students.students];
 this.flashMessages.success(htmlSafe('<i class="bi bi-check-circle-fill"></i> Filters cleared'));
}
@action updateDeptFilter(event) {
 let value = event.target.value;
 let isChecked = event.target.checked;
 if (isChecked) {
  this.filter = {
   ...this.filter,
   depts: [...this.filter.depts, value]
  };
 } else {
  this.filter = {
   ...this.filter,
   depts: this.filter.depts.filter(dept => dept !== value)
  };
 }
@action updateSkillsFilter(event) {
 let value = event.target.value;
```

```
let isChecked = event.target.checked;
 if (isChecked) {
  this.filter = {
   ...this.filter,
   skills: [...this.filter.skills, value]
  };
} else {
  this.filter = {
   ...this.filter,
   skills: this.filter.skills.filter(skill => skill !== value)
  };
}
@action toggleColumnVisibility(column) {
if (this.visibleColumns.includes(column)) {
  this.visibleColumns = this.visibleColumns.filter(c => c !== column);
 } else {
  this.visibleColumns = [...this.visibleColumns, column];
}
@action isColumnVisible(column) {
return this.visibleColumns.includes(column);
}
@action sortByKey(key) {
```

```
this.sortKey = key;
 console.log(this.sortKey)
 let sorted = [...this.students.filteredStudents].sort((a, b) => {
  let aVal = a[key];
  let bVal = b[key];
  if (Array.isArray(aVal)) aVal = aVal.join(', ');
  if (Array.isArray(bVal)) bVal = bVal.join(', ');
  if (typeof aVal === 'string' && typeof bVal === 'string') {
   return this.isAscending
    ? aVal.localeCompare(bVal)
    : bVal.localeCompare(aVal);
  } else {
   return this.isAscending? aVal - bVal : bVal - aVal;
  }
});
this.students.filteredStudents = sorted;
this.isAscending = !this.isAscending;
}
@action addStud() {
this.router.transitionTo('students.add');
}
@action toggleSelectAll(event) {
```

```
this.selectAll = event.target.checked;
 let checkboxes = document.querySelectorAll("#table input[type='checkbox']");
 checkboxes.forEach(checkbox => {
  checkbox.checked = this.selectAll;
});
}
@action handleSearch(event) {
const query = event.target.value.toLowerCase();
this.lastSearchQuery = query;
this.students.searchStudents(query, this.searchColumns);
}
get selectedColumnValues() {
 return this.searchColumns.map(value => {
  return this.searchColumnOptions.find(opt => opt.value === value);
}).filter(Boolean);
}
@action
updateSearchColumns(selected) {
this.searchColumns = selected.map(item => item.value);
 if (this.lastSearchQuery) {
  this.students.searchStudents(this.lastSearchQuery, this.searchColumns);
}
```

```
@action bulkDelete() {
  let checkboxes = document.querySelectorAll("#table input[type='checkbox']:checked");
  if (!checkboxes.length) {
   this.flashMessages.warning(htmlSafe('<i class="bi bi-exclamation-triangle-fill"></i> Select
one or more rows to delete'));
   return;
  }
  let selectedRegs = Array.from(checkboxes).map(checkbox => {
   let row = checkbox.closest("tr");
   return row.cells[1].textContent.trim();
  });
  this.students.filteredStudents = this.students.filteredStudents.filter(
   student => !selectedRegs.includes(String(student.reg)));
  this.selectAll = false;
  checkboxes.forEach(checkbox => checkbox.checked = false);
  this.flashMessages.success(htmlSafe('<i class="bi bi-check-circle-fill"></i> Selected
students deleted successfully', { timeout: 2000 }));
}
 @action deleteRow(reg) {
  const index = this.students.filteredStudents.findIndex(s => s.reg === reg);
  const student = this.students.filteredStudents[index];
```

```
this.students.filteredStudents = this.students.filteredStudents.filter(s => s.reg !== reg);
  const id = Date.now();
  this.recentlyDeletedStudents.push({ id, student, index });
  this.flashMessages.add({
   type: 'success',
   message: htmlSafe(`<i class="bi bi-check-circle-fill"></i> Student deleted. <button
class="undo-btn" data-id="${id}">Undo</button>`),
   timeout: 5000,
   sticky: true,
  });
  setTimeout(() => {
   const undoBtn = document.querySelector(`.undo-btn[data-id="${id}"]`);
   if (undoBtn) {
    undoBtn.addEventListener('click', () => this.undoDelete(id));
   }
  }, 0);
  setTimeout(() => {
   this.recentlyDeletedStudents = this.recentlyDeletedStudents.filter(item => item.id !== id);
  }, 5000);
 }
 @action undoDelete(id) {
  const entry = this.recentlyDeletedStudents.find(item => item.id === id);
  if (entry) {
```

```
const studentsCopy = [...this.students.filteredStudents];
   studentsCopy.splice(entry.index, 0, entry.student);
   this.students.filteredStudents = studentsCopy;
   this.recentlyDeletedStudents = this.recentlyDeletedStudents.filter(
    item => item.id !== id
   );
   this.flashMessages.success(htmlSafe('<i class="bi bi-check-circle-fill"></i> Undo
successful!'));
  }
 }
 @action editRow(reg) {
  this.editStudent = this.students.filteredStudents.find(student => student.reg === reg);
  this.router.transitionTo('students.edit', reg);
 }
 @action toggleTheme() {
  this.isDarkMode = !this.isDarkMode;
  const newTheme = this.isDarkMode ? 'dark' : 'light';
  document.documentElement.setAttribute('data-theme', newTheme);
 }
}
controllers/students/add.js
import Controller from '@ember/controller';
import { service } from '@ember/service';
```

```
import { action } from '@ember/object';
import { htmlSafe } from '@ember/template';
export default class StudentsAddController extends Controller {
  @service router;
  @service students;
  @service flashMessages;
  @action addRow(student) {
    this.students.students = [...this.students.students, student];
    this.students.filteredStudents = this.students.students;
    this.router.transitionTo('students');
    this.flashMessages.success(htmlSafe('<i class="bi bi-check-circle-fill"></i> Student
added successfully!'));
  }
  @action closeForm() {
    this.router.transitionTo('students');
  }
}
```

controllers/students/edit.js

```
import Controller from '@ember/controller';
import { service } from '@ember/service';
import { action } from '@ember/object';
import { htmlSafe } from '@ember/template';
```

components/student-form.hbs

```
<form id="formCont" {{on "keydown" this.handleEnter}} {{on-key 'Escape' @closeForm}}
{{on-click-outside @closeForm}}>
  <h4>{{if this.isEditing "Edit Student" "Add New Student"}}</h4>

<span id="close-btn" {{on "click" @closeForm}}>
  <i class="fa-solid fa-xmark"></i>
</span>

<label for="name">Name</label>
```

```
<input id="name" type="text" value={{this.name}} {{on "input" this.updateName}}
placeholder="Enter Name" required>
 <label for="reg">Registration Number</label>
 <input id="reg" type="number" value={{this.reg}} {{on "input" this.updateReg}}
placeholder="Enter Reg No" required>
 <label for="clg">College</label>
 <input id="clg" type="text" value={{this.clg}} {{on "input" this.updateClg}}</pre>
placeholder="Enter College" required>
 <label for="dept">Department</label>
 <PowerSelect @options={{this.departments}} @selected={{this.dept}}
@searchEnabled={{true}}
  @onChange={{this.updateDept}} @placeholder="Select dept..." @triggerId="dept"
@required={{true}} as |department|>
  {{department}}
 </PowerSelect>
 <label for="skills">Skills</label>
 <PowerSelectMultiple @options={{this.skills}} @selected={{this.selectedSkills}}
@searchEnabled={{true}}
  @onChange={{this.updateSkills}} @placeholder="Select skills..." @triggerId="skills"
@required={{true}} as |skill|>
  {{skill}}
 </PowerSelectMultiple>
 <div class="decision">
  <button class="btn-cd cancel" type="button" {{on "click" @closeForm}}>Cancel</button>
  <button class="btn-cd uc" type="submit" {{on "click" this.saveStudent}}>
```

```
{{if this.isEditing "Update" "Add"}}

</button>

</div>

</form>
```

components/student-list.hbs

```
<div class="table-container">
 <thead>
  <input type="checkbox" {{on "change" @toggleSelectAll}} checked={{@selectAll}}</pre>
/>
   {{#each @items as | item |}}
   {{#if (includes @visibleColumns item.key)}}
   {{item.label}}
    {{#if (or (eq item.key "name") (eq item.key "reg") (eq item.key "dept") (eq item.key
"clg") (eq item.key
    "skills"))}}
    <i class="bi bi-arrow-down-up" {{on "click" (fn @sortByKey item.key)}}></i>
    {{/if}}
    <span class="resizer"></span>
   {{/if}}
   {{/each}}
```

```
Action
  </thead>
  {{#if (and @students (gt @students.length 0))}}
  <VerticalCollection @estimateHeight={{60}} @items={{@students}} @key="reg"</pre>
@containerSelector=".table-container"
    as |student|>
    <input type="checkbox" />
     {{#each @items as | item|}}
     {{#if (includes @visibleColumns item.key)}}
     {{#if (eq item.key "skills")}}
      {{join-array student.skills ", "}}
     {{else}}
     {{get student item.key}}
     {{/if}}
     {{/if}}
     {{/each}}
     <button class="btn-ed edit" type="button" {{on "click" (fn @editRow student.reg)}}>
       <i class="fa-solid fa-pen-to-square"></i>
      </button>
```

components/student-form.js

```
import Component from '@glimmer/component';
import { action } from '@ember/object';
import { tracked } from '@glimmer/tracking';
import { service } from '@ember/service';
import { htmlSafe } from '@ember/template';

export default class StudentFormComponent extends Component {
    @service flashMessages;
```

```
@tracked name = this.args.editStudent?.name || ";
@tracked reg = this.args.editStudent?.reg | | ";
@tracked selectedSkills = this.args.editStudent?.skills | | [];
@tracked dept = this.args.editStudent?.dept || null;
@tracked clg = this.args.editStudent?.clg || ";
@tracked isEditing = !!this.args.editStudent;
skills = ['JavaScript', 'React', 'Spring Boot', 'Flutter', 'MySQL', 'Node.js', 'CSS', 'HTML'];
@action updateSkills(selected) {
  this.selectedSkills = selected;
  console.log(this.selectedSkills);
}
departments = ['IT', 'CSE', 'ECE', 'MECH'];
@action updateDept(selectedDept) {
  this.dept = selectedDept;
}
@action updateName(event) {
  this.name = event.target.value;
}
@action updateReg(event) {
  this.reg = event.target.value;
}
@action updateClg(event) {
```

```
this.clg = event.target.value;
  }
  @action saveStudent() {
    if (!this.name | | !this.reg | | !this.dept | | !this.clg | | this.selectedSkills.length === 0) {
       this.flashMessages.warning(htmlSafe('<i class="bi bi-exclamation-triangle-fill"></i> Fill
all the details'));
       return;
    }
    if (this.isEditing) {
       let updatedStudents = this.args.students.map(student =>
         student.reg === this.reg
           ? { ...student, name: this.name, dept: this.dept,skills: this.selectedSkills, clg:
this.clg }
           : student
       );
       this.args.updateStudents(updatedStudents);
    } else {
       this.args.addRow({
         name: this.name,
         reg: this.reg,
         dept: this.dept,
         skills: this.selectedSkills,
         clg: this.clg
       });
    }
```

```
this.args.closeForm();
}

@action handleEnter(event) {
   event.preventDefault();
   if (event.key === "Enter") {
      this.saveStudent();
   }
}
```

styles/app.css

```
:root {
    --bg-color: #ffffff;
    --text-color: #353535;
    --card-bg: #ffffff;
    --input-bg: #ffffff;
    --table-bg: #ffffff;
    --table-header-bg: #f7f7f7;
    --table-header-hover: #e5e5e5;
    --table-text: #3e3e3e;
    --border-color: #dadada;
    --shadow-color: rgba(0, 0, 0, 0.1);
    --navbar-bg: #ffffff;
    --hover-bg: #f7f7f7;
    --search-border: #ccc;
```

```
}
[data-theme='dark'] {
  --bg-color: #212121;
  --text-color: #f1f1f1;
  --card-bg: #2b2b2b;
  --input-bg: #333333;
  --table-bg: #272727;
  --table-header-bg: #2b2b2b;
  --table-header-hover: #3d3d3d;
  --table-text: #e0e0e0;
  --border-color: #3b3b3b;
  --shadow-color: rgba(0, 0, 0, 0.6);
  --navbar-bg: #2e2e2e;
  --hover-bg: #262626;
  --search-border: #555555;
}
body {
  background-color: var(--bg-color) !important;
  color: var(--text-color);
  transition: all 0.3s ease;
  display: flex;
  align-items: center;
  flex-direction: column;
  font-family: Arial, Helvetica, sans-serif;
  height: 100vh;
}
```

```
.navbar {
  margin-bottom: 2rem;
  width: 100%;
  height: 4rem;
  background-color: var(--navbar-bg);
  box-shadow: 0 2px 8px var(--shadow-color);
  font-weight: bold;
  font-size: 20px;
  display: flex;
  justify-content: space-between;
  color: var(--text-color);
}
.navbar-title {
  display: flex;
  align-items: center;
  gap: 5px;
  padding: 0 2rem;
  color: var(--text-color);
  font-size: 18px;
  font-weight: 600;
}
#theme-toggle-btn {
  background: transparent;
  border: none;
  font-size: 14px;
```

```
font-weight: 600;
  display: flex;
  justify-content: center;
  align-items: center;
}
#theme-toggle-btn i {
  font-size: 20px;
}
.toggle-profile {
  display: flex;
  gap: 1.5rem;
  padding: 0 2rem;
}
.toggle-profile i {
  font-size: 24px;
  cursor: pointer;
  color: var(--table-text);
}
.flash-message {
  text-align: center;
  min-width: 250px !important;
  border-radius: 10px !important;
  padding: 0.5rem !important;
```

```
z-index: 1050;
  position: fixed !important;
  top: 1rem;
  right: 2rem;
  opacity: 1;
  animation: bounceIn 0.6s ease-out, fadeOut 0.5s ease-in 5s forwards;
}
@keyframes bounceIn {
  0% {
    transform: scale(0.5);
    opacity: 0;
 }
  60% {
    transform: scale(1.1);
    opacity: 1;
  }
  100% {
    transform: scale(1);
    opacity: 1;
  }
}
@keyframes fadeOut {
  to {
    opacity: 0;
```

```
transform: translateY(-20px);
  }
}
.undo-btn {
  background: transparent;
  border: none;
  border-bottom: 1px solid #000;
  color: rgb(86, 86, 86);
}
. student\text{-}container \, \{
  display: flex;
  align-items: center;
  flex-direction: column;
  border: 1px solid var(--border-color);
  border-radius: 10px;
  height: 80vh;
  width: 80%;
  background-color: var(--card-bg);
}
.full-screen-outlet {
  position: fixed;
  top: 0;
  left: 0;
  height: 100%;
  width: 100%;
```

```
background: linear-gradient(to bottom, rgba(50, 50, 50, 0.7), rgba(45, 45, 45, 0.6));
  z-index: 1000;
}
[data-theme='dark'] .full-screen-outlet {
  background: linear-gradient(to bottom, rgba(67, 67, 67, 0.6), rgba(88, 88, 88, 0.6));
}
#formCont {
  display: flex;
  flex-direction: column;
  gap: 0.5rem;
  left: 35%;
  background-color: var(--card-bg);
  color: var(--text-color);
  padding: 2.5rem;
  border-radius: 20px;
  width: 30%;
  z-index: 2000;
  position: relative;
  margin: 4% 0;
}
label {
  font-weight: 600;
  color: var(--text-color);
  margin: 0.3rem 0;
  font-size: 14px;
```

```
}
input {
  padding: 0.5rem 1rem;
  border: 1px solid var(--border-color);
  background-color: var(--card-bg);
  color: var(--text-color);
  outline: none;
  height: 35px;
}
input:focus {
  border: 1px solid #a6a6a6;
}
input::placeholder {
  color: var(--text-color);
  opacity: 0.6;
}
input[type="checkbox"] {
  cursor: pointer;
  height: auto;
}
.ember-power-select-dropdown {
  background-color: var(--card-bg) !important;
  color: var(--text-color) !important;
```

```
border: 1px solid var(--border-color) !important;
  box-shadow: 0 4px 8px var(--shadow-color) !important;
}
.ember-power-select-option {
  color: var(--text-color) !important;
}
.ember-power-select-option[aria-selected='true'] {
  background-color: #4f8091 !important;
  color: white !important;
  font-weight: bold !important;
}
.ember-power-select-option[aria-current='true'] {
  background-color: var(--hover-bg) !important;
  color: var(--text-color) !important;
}
.ember-power-select-option:hover {
  background-color: var(--hover-bg) !important;
  color: var(--text-color) !important;
}
form .ember-power-select-trigger {
  background-color: var(--card-bg) !important;
  color: var(--text-color) !important;
  border: 1px solid var(--border-color) !important;
```

```
border-radius: 5px;
  padding: 0 1rem;
  scrollbar-width: none;
  height: 40px;
}
.ember-power-select-placeholder {
  color: var(--text-color) !important;
  opacity: 0.6;
}
.ember-power-select-multiple-option {
  background-color: var(--hover-bg) !important;
  color: var(--text-color) !important;
  border: 1px solid var(--border-color) !important;
  margin: 0 4px 4px 0;
  padding: 2px 6px;
  border-radius: 4px;
}
.ember-power-select-clear-btn {
  color: var(--text-color) !important;
}
.ember-basic-dropdown-content {
  background-color: var(--card-bg) !important;
  color: var(--text-color) !important;
  border: 1px solid var(--border-color) !important;
```

```
}
.table-container {
  overflow: auto;
  scroll-behavior: smooth;
  scrollbar-color: var(--border-color) transparent;
  width: 100%;
  box-shadow: 3px 2px 10px var(--shadow-color);
  background: var(--card-bg);
  border: 1px solid var(--border-color);
  scrollbar-width: thin;
}
.table-container tr {
  height: auto;
  min-height: 40px;
}
table {
  background-color: var(--table-bg);
  border-radius: 10px;
  border-collapse: collapse;
  color: var(--table-text);
  width: max-content;
  min-width: 1200px;
  table-layout: auto;
}
```

```
thead {
  position: sticky;
  top: 0;
  background-color: var(--table-header-bg);
  color: var(--text-color);
  text-align: center;
  font-size: 14px;
  z-index: 10;
}
tbody {
  overflow-y: auto;
  width: 100%;
  scrollbar-width: thin;
  background-color: var(--table-bg);
  color: var(--table-text);
}
tr th {
  padding: 0.5rem;
  margin: 0;
  position: relative;
}
th:not(:first-child) {
  min-width: 200px;
 }
```

```
th:hover {
  background-color: var(--table-header-hover);
}
tr th i {
  cursor: pointer;
  margin-left: 0.5rem;
  font-size: 14px;
}
th.resizable {
  position: relative;
  user-select: none;
}
th.resizable .resizer {
  position: absolute;
  right: 0;
  top: 0;
  width: 6px;
  color: black;
  height: 100%;
  cursor: ew-resize;
  z-index: 1;
}
```

```
table tr td {
  border-bottom: 1px solid var(--border-color);
  padding: 0.8rem;
  font-size: 14px;
  text-align: center;
  word-wrap: break-word;
}
tr:hover {
  background-color: var(--hover-bg);
}
th:first-child,
td:first-child {
  background-color: var(--table-header-bg);
  position: sticky;
  left: 0;
  top: 0;
  z-index: 1;
  width: 100px;
}
th:first-child::after,
td:first-child::after {
  content: "";
  position: absolute;
  top: 0;
  right: -5px;
```

```
width: 5px;
  height: 100%;
  background: linear-gradient(to right, rgba(0, 0, 0, 0.05), transparent);
  pointer-events: none;
}
.btn-cd {
  padding: 0.4rem 0.8rem;
  border-radius: 5px;
  border: none;
  background-color: #4f8091;
  color: white;
  cursor: pointer;
  font-size: 14px;
  font-weight: 600;
  text-decoration: none;
}
.btn-cd i {
  font-size: 12px;
  margin-right: 5px;
}
.cancel,
.uc {
  margin: 1rem 0;
}
```

```
.add {
  background: linear-gradient(135deg, #4f8091, #2b5a68);
}
.dlt {
  background: linear-gradient(135deg, #e37272, #c94b4b);
}
.cancel {
  background-color: var(--card-bg);
  color: var(--text-color);
  border: 1px solid #c8c8c8;
}
.btn-ed {
  background: transparent;
  border: none;
  cursor: pointer;
  margin: 0 0.3rem;
}
.btn-ed i {
  font-size: 14px;
}
.delete {
  color: #d84949;
}
```

```
.edit {
  color: var(--text-color);
}
button i {
  font-size: 12px;
}
.decision {
  display: flex;
  width: 100%;
  gap: 1rem;
}
.decision button {
  width: 100%;
}
#close-btn {
  cursor: pointer;
  position: absolute;
  top: 2rem;
  right: 2rem;
  color: var(--text-color);
  font-size: 20px;
}
```

```
.btn-filter {
  border: 1px solid var(--search-border);
  background: transparent;
  color: var(--text-color);
  opacity: 0.8;
  border-radius: 5px;
  padding: 0.3rem 1rem;
  font-size: 14px;
  font-weight: 600;
}
.btn-filter i {
  font-size: 14px;
}
.advanced-filters button {
  float: right;
}
.filter {
  margin: 1rem;
}
.btn-cd:hover,
.btn-filter:hover {
  scale: 1.03;
}
```

```
.advanced-filters,
.customize-column {
  position: absolute;
  top: 100%;
  z-index: 1000;
  padding: 1rem;
  background: var(--table-header-bg);
  color: var(--text-color);
  border: 1px solid #ccc;
  border-radius: 8px;
  box-shadow: 0 4px 8px rgba(0, 0, 0, 0.4);
  margin-top: 0.4rem;
}
ul {
  list-style: none;
  padding: 0;
  margin: 0;
}
ul li {
  margin: 0;
  padding-left: 0;
}
ul li div {
  display: flex;
  justify-content: space-between;
```

```
padding: 0.3rem 1rem;
}
.advanced-filters {
  left: 12rem;
}
.customize-column {
  left: 0.5rem;
  width: 350px;
}
.customize-column p {
  color: var(--text-color);
  opacity: 0.8;
  font-size: 14px;
  font-weight: 600;
}
.close-modal {
  position: absolute;
  top: 0.5rem;
  right: 1rem;
  cursor: pointer;
}
.filter-section {
  display: flex;
```

```
flex-direction: column;
  gap: 0.5rem;
}
.filter-dept,
.filter-skill,
.custom-column {
  display: grid;
  grid-template-columns: 1fr 1fr 1fr;
  gap: 1rem;
  margin: 0.5rem;
}
.title-cont {
  display: flex;
  justify-content: center;
  align-items: center;
}
.search-dlt-cont {
  width: 98%;
  display: flex;
  justify-content: space-between;
  align-items: center;
  margin: 1rem;
}
.search-dlt-cont span {
```

```
font-size: 20px;
  font-weight: 700;
  color: var(--text-color);
}
.search-cont {
  display: flex;
  align-items: center;
  border: 1px solid var(--search-border);
  border-radius: 5px;
  width: 40%;
  background-color: var(--input-bg);
  padding: 0 1rem;
}
.search-cont i {
  font-size: 14px;
  margin-right: 8px;
  color: var(--text-color);
  opacity: 0.7;
}
#search {
  flex: 1;
  border: none;
  background: transparent;
  color: var(--text-color);
  padding: 0.3rem;
```

```
min-width: 120px;
}
.search-cont .ember-power-select-trigger {
  background: transparent !important;
  border: none !important;
  height: 34px !important;
  overflow-y: scroll !important;
  scrollbar-width: none !important;
  max-width: 170px !important;
}
. search-cont \ . ember-power-select-multiple-option \ \{
  background-color: var(--table-bg) !important;
  color: var(--text-color) !important;
  border: none !important;
  margin: 0.3rem !important;
  padding: 0 8px !important;
  font-size: 10px !important;
  border-radius: 20px !important;
  font-weight: 500 !important;
  display: inline-flex;
  align-items: center;
  gap: 4px;
  box-shadow: 0 1px 3px rgba(0, 0, 0, 0.1);
}
.search-cont .ember-power-select-placeholder {
```

```
font-size: 12px !important;
  font-weight: 400 !important;
  opacity: 0.7 !important;
  color: var(--text-color) !important;
  padding: 0.3rem 0.7rem;
}
. ember-power-select-multiple-remove-btn \ \{
  font-size: 16px !important;
}
.search-cd-cont {
  display: flex;
  justify-content: flex-end;
  width: 80%;
  gap: 0.5rem;
  position: relative;
  height: 35px;
}
```