OUTPUT:

Render the entire table from a single JSON object in the route. (No hard-coded column names in the .hbs file; all configuration should come from JSON.)

services/students.js

```
import Service from '@ember/service';
import { tracked } from '@glimmer/tracking';

export default class StudentsService extends Service {
    @tracked students = [];
    @tracked filteredStudents = [];
    @tracked items = [];

constructor() {
    super(...arguments);
    this.loadStudents();
}

async loadStudents() {
    let response = await fetch('/students-data.json');
    let data = await response.json();
    this.students = data.students;
    this.filteredStudents = this.students;
    this.items = data.items;
}
```

controllers/students.js

```
@tracked DEFAULT_COLUMNS = [];
@tracked items = [];

constructor() {
    super(...arguments);
    this.students.loadStudents().then(() => {
        this.DEFAULT_COLUMNS = this.students.items;
        this.items = this.loadSavedColumns();
    });
}
```

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>
    <i class="bi bi-three-dots-vertical" style="float: right; opacity:0.7; cursor:default;"></i>
   {{/if}}
   {{/each}}
   Action
  </thead>
```

```
{{#if (and @students (gt @students.length 0))}}
  <VerticalCollection @estimateHeight={{60}} @items={{@students}} @key="reg"</pre>
@containerSelector=".table-container"
   as |student|>
   row">
    <input type="checkbox" />
     <i class="bi bi-chevron-right chevron-icon {{if (includes @expandedRows student.reg)}</pre>
" rotate"}}" />
    {{#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>
    <button class="btn-ed delete" type="button" {{on "click" (fn @deleteRow
student.reg)}}>
    <i class="fa-solid fa-trash"></i>
    </button>
   {{#if (includes @expandedRows student.reg)}}
  <div class="nested-content">
    {{yield student}}
    </div>
   {{/if}}
  </VerticalCollection>
  {{else}}
  No students found
  {{/if}}
```

```
</div>
```

students-data.json

```
{
 "items": [
  {
   "key": "reg",
  "label": "Reg No"
  },
  {
   "key": "name",
   "label": "Name"
  },
   "key": "dept",
   "label": "Department"
  },
   "key": "skills",
   "label": "Skills"
  },
   "key": "clg",
   "label": "College"
  }
 "students": [
  {
```

```
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 "reg": 963021203014,
 "dept": "MECH",
 "clg": "CIT",
 "skills": [
  "Spring Boot",
 "CSS"
 ],
 "courses": [
  {
   "name": "Thermodynamics",
   "score": 85,
   "credits": 4,
   "grade": "A-"
  },
   "name": "Fluid Mechanics",
   "score": 78,
   "credits": 3,
   "grade": "B"
 ]
},
 "name": "Raj",
 "reg": 963021201037,
 "dept": "IT",
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  "Flutter"
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   "score": 90,
   "credits": 4,
   "grade": "A"
  },
   "name": "Mobile App Dev",
   "score": 88,
   "credits": 3,
   "grade": "B+"
  }
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 "name": "Dinesh",
 "reg": 963121201011,
 "dept": "IT",
 "clg": "MIT",
 "skills": [
  "JavaScript",
  "HTML"
 ],
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   "grade": "B+"
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   "name": "Algorithms",
   "score": 79,
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  "Spring Boot"
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  {
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   "score": 84,
   "credits": 4,
   "grade": "B+"
  },
   "name": "Operating Systems",
   "score": 81,
   "credits": 3,
   "grade": "B"
```

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  "Spring Boot"
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   "grade": "B+"
  },
   "name": "Cloud Computing",
   "score": 83,
   "credits": 3,
   "grade": "B"
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   "grade": "B-"
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   "name": "CAD/CAM",
   "score": 82,
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   "score": 79,
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   "grade": "B"
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   "name": "Ethical Hacking",
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  },
   "name": "IoT Fundamentals",
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   "credits": 3,
   "grade": "B+"
  }
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 "courses": [
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   "name": "Data Warehousing",
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   "score": 84,
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   "grade": "B+"
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   "name": "Cyber Laws",
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   "name": "Neural Networks",
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   "grade": "B"
  }
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},
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   "credits": 4,
   "grade": "A-"
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   "name": "Satellite Comm",
   "score": 79,
   "credits": 3,
   "grade": "B"
 ]
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 "clg": "UCEN",
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 "JavaScript"
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   "credits": 4,
   "grade": "B+"
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   "name": "MongoDB",
   "score": 83,
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  "Flutter"
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   "score": 82,
   "credits": 4,
   "grade": "B+"
  },
   "name": "3D Printing",
   "score": 85,
   "credits": 3,
   "grade": "A-"
  }
 ]
},
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  "JavaScript"
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 "courses": [
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   "name": "Web Security",
   "score": 88,
   "credits": 4,
   "grade": "B+"
  },
   "name": "Penetration Testing",
   "score": 84,
   "credits": 3,
   "grade": "B+"
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```
"skills": [
  "MySQL",
  "Flutter"
 ],
 "courses": [
  {
   "name": "IoT Systems",
   "score": 85,
   "credits": 4,
   "grade": "A-"
  },
   "name": "Sensor Networks",
   "score": 80,
   "credits": 3,
   "grade": "B"
  }
},
 "name": "Naveen",
 "reg": 963121202032,
 "dept": "CSE",
 "clg": "MIT",
 "skills": [
  "Spring Boot",
  "Node.js"
 ],
```

```
"courses": [
  {
   "name": "Enterprise Architecture",
   "score": 87,
   "credits": 4,
   "grade": "B+"
  },
   "name": "SOA",
   "score": 83,
   "credits": 3,
   "grade": "B"
},
 "name": "Vimal",
 "reg": 963121202048,
 "dept": "CSE",
 "clg": "MIT",
 "skills": [
  "React",
  "CSS"
 ],
 "courses": [
  {
   "name": "Frontend Frameworks",
   "score": 89,
```

```
"credits": 4,
   "grade": "B+"
  },
   "name": "Responsive Design",
   "score": 86,
   "credits": 3,
   "grade": "B+"
  }
},
 "name": "Bala",
 "reg": 962821202006,
 "dept": "CSE",
 "clg": "UCEN",
 "skills": [
  "CSS",
 "Node.js"
 ],
 "courses": [
   "name": "Web Performance",
   "score": 85,
   "credits": 4,
   "grade": "A-"
  },
```

```
"name": "Progressive Web Apps",
   "score": 88,
   "credits": 3,
   "grade": "B+"
 1
},
 "name": "Tharun",
 "reg": 962821204044,
 "dept": "ECE",
 "clg": "UCEN",
 "skills": [
 "HTML",
  "CSS"
 ],
 "courses": [
  {
   "name": "RF Engineering",
   "score": 82,
   "credits": 4,
   "grade": "B+"
  },
   "name": "Microwave Engg",
   "score": 79,
   "credits": 3,
   "grade": "B"
```

```
}
 1
},
 "name": "Ragul",
 "reg": 962821203038,
 "dept": "MECH",
 "clg": "UCEN",
 "skills": [
  "Node.js",
  "Flutter"
 ],
 "courses": [
   "name": "Mechatronics",
   "score": 84,
   "credits": 4,
   "grade": "B+"
  },
   "name": "Industrial Automation",
   "score": 81,
   "credits": 3,
   "grade": "B"
  }
```

}

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

```
{{#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}}>
        <div class="customize-column-header">
          <div>
            <strong>Columns</strong>
            Drag <i class="bi bi-list"></i> to reorder
columns
          </div>
          <div class="customize-column-rc">
            Reset Order
```

```
<p {{on "click" this.toggleCustomize}} {{on-key 'Escape' this.toggleCustomize}}
              class="close-modal"><i class="fa-solid fa-xmark"></i>
          </div>
        </div>
        {{#each this.items as |col|}}
          {|sortable-item model=col}}>
            <div>
              <label>
                <input type="checkbox" checked={{this.isColumnVisible col.key}} {{on</pre>
"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}}>
  <div class="filter-section">
    <div class="filter-section-header">
       <strong>Departments</strong>
       <span {{on "click" this.toggleFilter}} {{on-key 'Escape' this.toggleFilter}}</pre>
         class="close-modal"><i class="fa-solid fa-xmark"></i></span>
    </div>
    <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.items}}
             @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}}
@makeResizable={{this.makeResizable}}
   @generateWidthStyle={{this.generateWidthStyle}} @handleResize={{this.handleResize}}
   @expandedRows={{this.expandedRows}} @toggleRow={{this.toggleRow}} as |student|>
   <thead style="z-index: 0;">
       Course
         Score
         Credits
         Grade
       </thead>
     {{#each student.courses as |course|}}
       {{course.name}}
         {{course.score}}
         {{course.credits}}
```

```
{{course.grade}}
        {{/each}}
      </StudentList>
</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 = [];
 @tracked filteredStudents = [];
```

```
@tracked items = [];
constructor() {
super(...arguments);
this.loadStudents();
}
async loadStudents() {
let response = await fetch('/students-data.json');
let data = await response.json();
this.students = data.students;
this.filteredStudents = this.students;
this.items = data.items;
}
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 = ";
@tracked expandedRows = [];
@tracked DEFAULT COLUMNS = [];
@tracked items = [];
constructor() {
super(...arguments);
this.students.loadStudents().then(() => {
  this.DEFAULT_COLUMNS = this.students.items;
  this.items = this.loadSavedColumns();
});
}
loadSavedColumns() {
try {
  const saved = localStorage.getItem('studentColumns');
  return saved ? JSON.parse(saved) : this.DEFAULT COLUMNS;
 } catch (e) {
  console.error('Failed to load saved columns', e);
  return this.DEFAULT_COLUMNS;
}
```

```
@action reorderItems(itemModels) {
this.items = itemModels;
this.saveColumns();
}
@action resetColumns() {
this.items = [...this.DEFAULT_COLUMNS];
this.saveColumns();
}
saveColumns() {
try {
  local Storage. set Item ('student Columns', JSON. string if y (this. items));\\
} catch (e) {
  console.error('Failed to save columns', e);
}
}
@action toggleRow(reg) {
if (this.expandedRows.includes(reg)) {
  this.expandedRows = this.expandedRows.filter(r => r !== reg);
} else {
  this.expandedRows = [...this.expandedRows, reg];
}
}
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 key = th.getAttribute('data-key');
 const minWidth = 100;
let savedWidth = localStorage.getItem(`col-width-${key}`);
 if (savedWidth) {
  th.style.width = `${savedWidth}px`;
}
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 = `${newWidth}px`;
};
 const onMouseUp = () => {
  const finalWidth = th.offsetWidth;
  localStorage.setItem(`col-width-${key}`, finalWidth);
  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(key => {
  return this.items.find(opt => opt.key === key);
 }).filter(Boolean);
}
@action
updateSearchColumns(selected) {
 this.searchColumns = selected.map(item => item.key);
 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.dataset.reg;
  });
  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';
export default class StudentsEditController extends Controller {
  @service router;
  @service students;
  @service flashMessages;
  @action updateStudents(updatedStudents) {
    this.students.filteredStudents = updatedStudents;
    this.router.transitionTo('students');
    this.flashMessages.success(htmlSafe('<i class="bi bi-check-circle-fill"></i> Student
updated successfully!'));
  }
  @action closeForm() {
    this.router.transitionTo('students');
  }
}
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}}
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-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;
```

```
@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: #ebebeb;
  --table-text: #3e3e3e;
  --border-color: #dddddd;
  --shadow-color: rgba(0, 0, 0, 0.1);
  --navbar-bg: #ffffff;
  --hover-bg: #f4f4f4;
  --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-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: var(--search-border) !important;
```

```
color: var(--text-color) !important;
  opacity: 0.9 !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: #4f8091 !important;
  color: white !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;
  scrollbar-width: none;
}
.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 {
  background-color: var(--table-bg);
  border-radius: 10px;
  border-collapse: collapse;
  color: var(--table-text);
  width: max-content;
  min-width: 1200px;
  table-layout: auto;
}
.table-container thead {
  position: sticky;
  top: 0;
  background-color: var(--table-header-bg);
  color: var(--text-color);
  text-align: center;
  font-size: 14px;
  z-index: 200;
}
tbody {
  overflow-y: auto;
  width: 100%;
  scrollbar-width: thin;
  background-color: var(--table-bg);
  color: var(--table-text);
```

```
}
tr th {
  padding: 0.6rem;
  margin: 0;
  position: relative;
}
th:not(:first-child) {
  min-width: 200px;
}
th:hover {
  background-color: var(--table-header-hover);
  box-shadow: 2px 4px 8px rgba(0, 0, 0, 0.8);
}
tr th i {
  cursor: pointer;
  margin-left: 0.5rem;
  font-size: 12px;
}
th.resizable {
  position: relative;
  user-select: none;
}
```

```
th.resizable .resizer {
  position: absolute;
  right: 0;
  top: 0;
  width: 25px;
  color: black;
  height: 100%;
  cursor: ew-resize;
  z-index: 1;
}
.table-container tr td {
  border-bottom: 1px solid var(--border-color);
  padding: 0.8rem;
  font-size: 14px;
  text-align: center;
  z-index: 20;
  cursor: pointer;
}
table tr td:not(:first-child) {
  white-space: nowrap;
  overflow: hidden;
  text-overflow: ellipsis;
  max-width: 200px;
}
```

```
.main-row th:first-child,
.main-row td:first-child {
  background-color: var(--table-header-bg);
  position: sticky;
  left: 0;
  top: 0;
  z-index: 50;
  width: 60px;
}
.main-row th:first-child input {
  margin-right: 0.7rem
}
.main-row th:first-child::after,
.main-row td:first-child::after,
.nested-row-first-child::after
{
  content: "";
  position: absolute;
  top: 0;
  right: -5px;
  width: 5px;
  height: 100%;
  background: linear-gradient(to right, rgba(0, 0, 0, 0.1), transparent);
  pointer-events: none;
}
```

```
.nested-table thead th:hover {
  background-color: #ccc;
}
.nested-table thead tr {
  background-color: var(--search-border);
}
.nested-table tr td {
  background-color: var(--table-bg);
}
.nested-row-first-child {
  background-color: var(--table-header-bg);
  position: sticky;
  top: 0;
  left: 0;
  z-index: 10;
}
. nested\text{-}content \, \{
  animation: fadeInDown 0.3s ease;
}
@keyframes fadeInDown {
  from {
    opacity: 0;
    transform: translateY(-20px);
```

```
}
  to {
    opacity: 1;
    transform: translateY(0);
  }
}
.chevron-icon {
  transition: transform 0.3s ease;
  float: right;
  cursor: pointer;
  font-size: 12px;
}
.chevron-icon.rotate {
  transform: rotate(90deg);
}
.btn-cd {
  padding: 0.4rem 0.8rem;
  border-radius: 5px;
  border: none;
  background-color: #4f8091;
  color: white;
  cursor: pointer;
  font-size: 12px;
  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(--bg-color);
  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;
}
.filter-section-header {
```

```
display: flex;
  justify-content: space-between;
  align-items: center;
}
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: 400px;
}
. customize-column-header \{\\
  display: flex;
  align-items: center;
  justify-content: flex-end;
  gap: 4rem;
  padding-right: 1rem;
  width: 100%;
}
.customize-column-rc {
  display: flex;
  justify-content: flex-end;
  align-items: center;
  gap: 1rem;
}
.customize-desc {
  color: var(--text-color);
  opacity: 0.8;
  font-size: 14px;
  font-weight: 600;
}
.close-modal i {
  cursor: pointer;
```

```
font-size: 20px;
}
.btn-reset {
  border: none;
  border-radius: 5px;
  background: transparent;
  border: 1px solid #d84949;
  color: #d84949;
  opacity: 0.9;
  padding: 0.2rem 0.5rem;
  cursor: pointer;
  font-size: 12px;
}
.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;
  height: 33px;
}
.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: 30px !important;
  overflow-y: scroll !important;
  scrollbar-width: none !important;
  max-width: 170px !important;
```

```
min-width: 100px !important;
}
.search-cont .ember-power-select-multiple-option {
  background-color: var(--table-bg) !important;
  color: var(--text-color) !important;
  border: none !important;
  margin: 0.2rem !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, 0.2);
}
.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;
    align-items: center;
    width: 80%;
    gap: 0.5rem;
    position: relative;
}
```