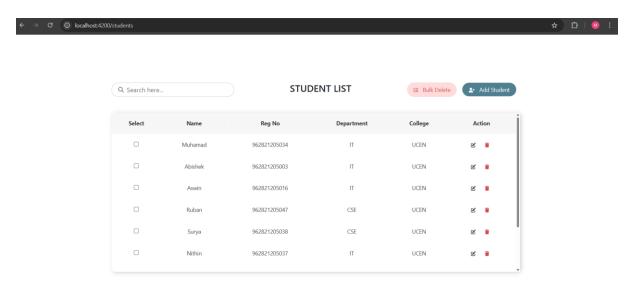
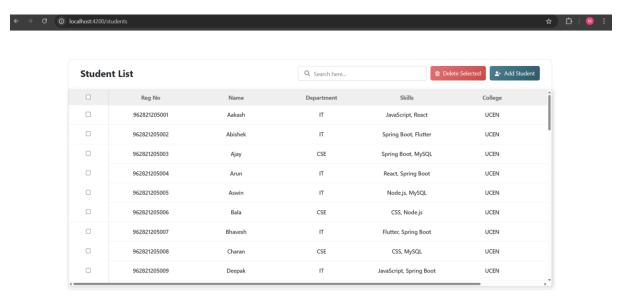
OUTPUT:

ember-vertical-collection

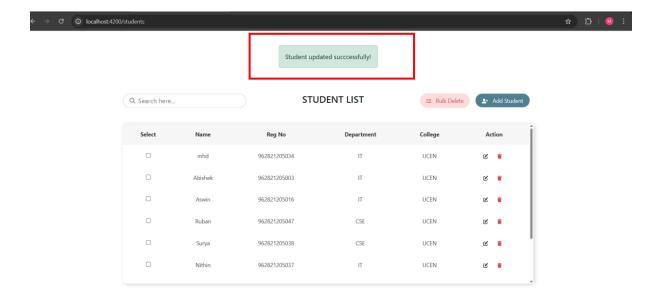
As a table:



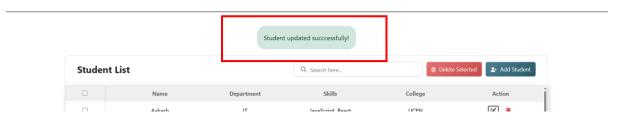
Bidirectional scrollable div and scrollable body:



ember-cli-flash



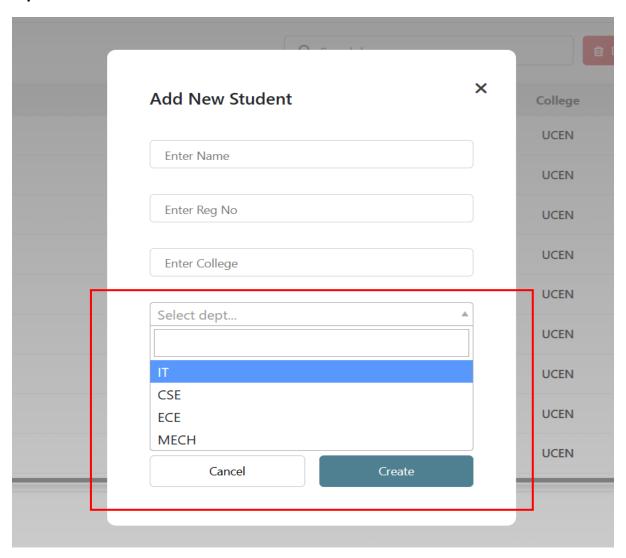
The style of the cli-flash is customized



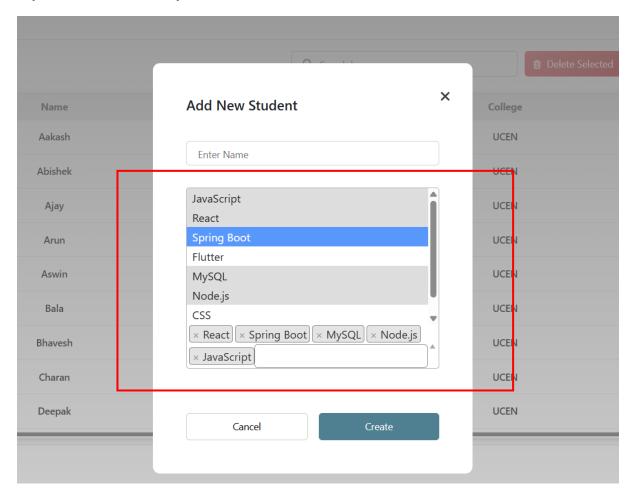
Timeout is set manually to hide the flash message

ember-power-select

1.power select



2.power select multiple



index.html

```
<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">
  {{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</pre>
'students.edit')) 'full-screen-outlet' "}}">
  {{liquid-outlet}}
</div>
<div class="student-container">
  <div class="search-dlt-cont">
    <span>Student List</span>
    <div class="search-cd-cont">
      <div class="search-cont">
         <i class="fa-solid fa-magnifying-glass"></i>
         <input type="text" id="search" placeholder="Search here..." {{on "keyup"</pre>
this.handleSearch}}>
      </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 @students={{this.students.filteredStudents}} @deleteRow={{this.deleteRow}}
@editRow={{this.editRow}}
    @updateSelection={{this.updateSelection}} @toggleSelectAll={{this.toggleSelectAll}}
    @selectAll={{this.selectAll}} />
</div>
```

templates/students/add.hbs

```
<div id="overlay"></div>
<div {{on-click-outside this.closeForm}}>
<StudentForm @addRow={{this.addRow}} @closeForm={{this.closeForm}} />
</div>
```

templates/students/edit.hbs

```
<div id="overlay"></div>
<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

```
{ name: "Aswin", reg: 962821205005, dept: "IT", clg: "UCEN", skills: ["Node.js",
"MySQL"] },
    { name: "Bala", reg: 962821205006, dept: "CSE", clg: "UCEN", skills: ["CSS", "Node.js"] },
    { name: "Bhavesh", reg: 962821205007, dept: "IT", clg: "UCEN", skills: ["Flutter", "Spring"
Boot"] },
    { name: "Charan", reg: 962821205008, dept: "CSE", clg: "UCEN", skills: ["CSS", "MySQL"]
},
    { name: "Deepak", reg: 962821205009, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"Spring Boot"] },
    { name: "Dev", reg: 962821205010, dept: "IT", clg: "UCEN", skills: ["React", "HTML"] },
    { name: "Dinesh", reg: 962821205011, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"HTML"] },
    { name: "Ethan", reg: 962821205012, dept: "CSE", clg: "UCEN", skills: ["Node.js",
"JavaScript"] },
    { name: "Elavarasan", reg: 962821205013, dept: "IT", clg: "UCEN", skills: ["HTML",
"React"] },
    { name: "Faiz", reg: 962821205014, dept: "IT", clg: "UCEN", skills: ["Spring Boot", "CSS"]
},
    { name: "Gokul", reg: 962821205015, dept: "CSE", clg: "UCEN", skills: ["MySQL",
"Flutter"] },
    { name: "Guhan", reg: 962821205016, dept: "CSE", clg: "UCEN", skills: ["Flutter",
"React"] },
    { name: "Hari", reg: 962821205017, dept: "CSE", clg: "UCEN", skills: ["CSS", "HTML"] },
    { name: "Harish", reg: 962821205018, dept: "IT", clg: "UCEN", skills: ["Node.js", "CSS"] },
    { name: "Harsha", reg: 962821205019, dept: "IT", clg: "UCEN", skills: ["MySQL", "HTML"]
},
    { name: "Imran", reg: 962821205020, dept: "CSE", clg: "UCEN", skills: ["Node.js",
"JavaScript"] },
    { name: "Irfan", reg: 962821205021, dept: "CSE", clg: "UCEN", skills: ["Spring Boot",
"JavaScript"] },
    { name: "Jagan", reg: 962821205022, dept: "IT", clg: "UCEN", skills: ["React", "Spring
Boot"] },
```

```
{ name: "Jeeva", reg: 962821205023, dept: "IT", clg: "UCEN", skills: ["HTML", "Node.js"]
},
    { name: "Karthik", reg: 962821205024, dept: "IT", clg: "UCEN", skills: ["Flutter", "React"]
},
    { name: "Keerthi", reg: 962821205025, dept: "IT", clg: "UCEN", skills: ["React", "CSS"] },
    { name: "Kiran", reg: 962821205026, dept: "IT", clg: "UCEN", skills: ["CSS", "Flutter"] },
    { name: "Kavin", reg: 962821205027, dept: "CSE", clg: "UCEN", skills: ["Spring Boot",
"React"] },
    { name: "Lalith", reg: 962821205028, dept: "CSE", clg: "UCEN", skills: ["HTML",
"MySQL"] },
    { name: "Lokesh", reg: 962821205029, dept: "CSE", clg: "UCEN", skills: ["Flutter",
"MySQL"] },
    { name: "Manoj", reg: 962821205030, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"React"] },
    { name: "Muhamad", reg: 962821205031, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"React"] },
    { name: "Naveen", reg: 962821205032, dept: "CSE", clg: "UCEN", skills: ["Spring Boot",
"Node.js"] },
    { name: "Nithin", reg: 962821205033, dept: "IT", clg: "UCEN", skills: ["Node.js", "CSS"] },
    { name: "Omprakash", reg: 962821205034, dept: "IT", clg: "UCEN", skills: ["CSS",
"HTML"] },
    { name: "Pranav", reg: 962821205035, dept: "CSE", clg: "UCEN", skills: ["MySQL",
"JavaScript"] },
    { name: "Praveen", reg: 962821205036, dept: "CSE", clg: "UCEN", skills: ["MySQL",
"HTML"] },
    { name: "Raj", reg: 962821205037, dept: "IT", clg: "UCEN", skills: ["React", "Flutter"] },
    { name: "Ragul", reg: 962821205038, dept: "IT", clg: "UCEN", skills: ["Node.js", "Flutter"]
},
    { name: "Ruban", reg: 962821205039, dept: "CSE", clg: "UCEN", skills: ["HTML", "CSS"] },
    { name: "Sanjay", reg: 962821205040, dept: "IT", clg: "UCEN", skills: ["Node.js", "Spring
Boot"] },
```

```
{ name: "Sathish", reg: 962821205041, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"Node.js"] },
    { name: "Suriya", reg: 962821205042, dept: "IT", clg: "UCEN", skills: ["HTML",
"JavaScript"] },
    { name: "Surya", reg: 962821205043, dept: "CSE", clg: "UCEN", skills: ["React", "Flutter"]
},
    { name: "Tharun", reg: 962821205044, dept: "CSE", clg: "UCEN", skills: ["HTML", "CSS"]
},
    { name: "Udhay", reg: 962821205045, dept: "IT", clg: "UCEN", skills: ["JavaScript",
"MySQL"] },
    { name: "Venkatesh", reg: 962821205046, dept: "CSE", clg: "UCEN", skills: ["React",
"Flutter"] },
    { name: "Vijay", reg: 962821205047, dept: "IT", clg: "UCEN", skills: ["Flutter", "MySQL"]
},
    { name: "Vimal", reg: 962821205048, dept: "CSE", clg: "UCEN", skills: ["React", "CSS"] },
    { name: "Yogesh", reg: 962821205049, dept: "IT", clg: "UCEN", skills: ["Spring Boot",
"CSS"] },
    { name: "Zaid", reg: 962821205050, dept: "CSE", clg: "UCEN", skills: ["Node.js", "HTML"]
},
   ];
  @tracked filteredStudents = this.students;
  addStudent(student) {
    this.students = [...this.students, student];
    this.filteredStudents = this.students;
  }
  searchStudents(query) {
    query = query.toLowerCase();
    this.filteredStudents = this.students.filter(student => {
```

```
const reg = student.reg ? student.reg.toString().toLowerCase() : ";
return student.name.toLowerCase().includes(query) ||
    reg.includes(query) ||
    student.dept.toLowerCase().includes(query) ||
    student.clg.toLowerCase().includes(query);
});
}

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';
import { inject as service } from '@ember/service';
export default class StudentsAddRoute extends Route {
    @service students;
    model() {
        return { students:this.students.students, newStudent: { name: ", reg: ", dept: ", clg: " } };
    }
}
```

routes/students/edit.js

```
import Route from '@ember/routing/route';
import { inject as 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 { task, timeout } from 'ember-concurrency';
export default class StudentsController extends Controller {
  @service router;
  @service students;
  @service flashMessages;
  @tracked isFormVisible = false;
  @tracked editStudent = null;
  @tracked selectAll = false;
  get currentRoute() {
    return this.router.currentRouteName;
  }
  @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;
  });
}
@task
*searchTable(event) {
  let input = event.target.value.toLowerCase();
  yield timeout(300);
  this.students.searchStudents(input);
}
@action handleSearch(event) {
  this.searchTable.perform(event);
}
@action bulkDelete() {
  let checkboxes = document.querySelectorAll("#table input[type='checkbox']:checked");
  if (!checkboxes.length) {
```

```
this.flashMessages.warning('Select one or more rows to bulk delete', { timeout: 2000
});
      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('Selected students deleted successfully', { timeout: 2000 });
  }
  @action deleteRow(reg) {
    this.students.filteredStudents = this.students.filteredStudents.filter(student =>
student.reg !== reg);
  }
  @action editRow(reg) {
    this.editStudent = this.students.filteredStudents.find(student => student.reg === reg);
    this.router.transitionTo('students.edit', reg);
  }
}
```

controllers/students/add.js

```
import Controller from '@ember/controller';
import { service } from '@ember/service';
import { action } from '@ember/object';
export default class StudentsAddController extends Controller {
  @service router;
  @service students;
  @service flashMessages;
  @action addRow(student) {
    this.students.addStudent(student);
    this.router.transitionTo('students');
    this.flashMessages.success("Student added succcessfully!");
  }
  @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';
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("Student updated succcessfully!");
}

@action closeForm() {
    this.router.transitionTo('students');
}
```

components/student-form.hbs

```
<div id="formCont" {{on-key 'Enter' this.handleEnter}} {{on-key 'Escape' @closeForm}}>
  <h5>{{if this.isEditing "Edit Student" "Add New Student"}}
<span id="close-btn" {{on "click" @closeForm}}>
  <i class="fa-solid fa-xmark"></i>
  </span>

<input type="text" value={{this.name}} {{on "input" this.updateName}}
placeholder="Enter Name" required>
  <input type="number" value={{this.reg}} {{on "input" this.updateReg}} placeholder="Enter Reg No">
```

```
<input type="text" value={{this.clg}} {{on "input" this.updateClg}} placeholder="Enter
College">
  <PowerSelect @options={{this.departments}} @selected={{this.dept}}
@searchEnabled={{true}} @onChange={{this.updateDept}}
  @placeholder="Select dept..." as |department|>{{department}}</PowerSelect>
  <PowerSelectMultiple @options={{this.skills}} @selected={{this.selectedSkills}}
@searchEnabled={{true}} @onChange={{this.updateSkills}} @placeholder="Select skills..." as
|skill|>{{skill}}</PowerSelectMultiple>
  <div class="decision">
    <button class="btn-cd cancel" type="button" {{on "click"</pre>
@closeForm}}>Cancel</button>
    <button class="btn-cd uc" type="button" {{on "click" this.saveStudent}}>
      {{if this.isEditing "Update" "Create"}}
    </button>
  </div>
</div>
components/student-list.hbs
<div class="table-container">
  <thead>
      <input type="checkbox" {{on "change" @toggleSelectAll}}</pre>
checked={{@selectAll}} />
```

Reg No

```
Name
       Department
       Skills
       College
       Action
     </thead>
   {{#if (and @students (gt (get @students "length") 0))}}
     <VerticalCollection @estimateHeight={{50}} @items={{@students}} @key="reg"</pre>
       @containerSelector=".table-container" as |student|>
       <input type="checkbox" />
        {{student.reg}}
        {{student.name}}
        {{student.dept}}
        {{join-array student.skills ", "}}
        {{student.clg}}
        <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>
```

export default class StudentFormComponent extends Component {

@tracked name = this.args.editStudent?.name || ";

@tracked dept = this.args.editStudent?.dept || null;

@tracked selectedSkills = this.args.editStudent?.skills | | [];

skills = ['JavaScript', 'React', 'Spring Boot', 'Flutter', 'MySQL', 'Node.js', 'CSS', 'HTML'];

@tracked reg = this.args.editStudent?.reg || ";

@tracked clg = this.args.editStudent?.clg || ";

@tracked isEditing = !!this.args.editStudent;

@service flashMessages;

```
@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("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
/* Ember supports plain CSS out of the box. More info:
https://cli.emberjs.com/release/advanced-use/stylesheets/ */
body {
  display: flex;
  justify-content: center;
  align-items: center;
  flex-direction: column;
  height: 100vh;
  font-family: Arial, Helvetica, sans-serif;
}
#overlay {
  position: fixed;
  top: 0;
  left: 0;
  height: 100%;
  width: 100%;
  background: linear-gradient(to bottom, rgba(107, 107, 108, 0.7), rgba(102, 102, 102, 0.3));
  z-index: 1000;
}
.flash-message {
  text-align: center;
```

```
min-width: 250px !important;
  border-radius: 20px !important;
  padding: 1rem !important;
  z-index: 1050;
}
.student-container {
  display: flex;
  align-items: center;
  flex-direction: column;
  border: 1px solid #dddddd;
  border-radius: 10px;
  height: 80vh;
  width: 80%;
}
.full-screen-outlet {
  position: fixed;
  top: 0;
  left: 0;
  bottom: 0;
  width: 100vw;
  height: 100vh;
  z-index: 1000;
}
#formCont {
  display: flex;
```

```
flex-direction: column;
  gap: 2rem;
  left: 35%;
  background-color: white;
  padding: 3rem;
  border-radius: 10px;
  width: 30%;
  z-index: 2000;
  position: relative;
  margin: 7% 0;
}
input {
  padding: 0.5rem 1rem;
  border: 1px solid #d0d0d0;
  border-radius: 5px;
  background-color: #fff;
  outline: none;
  height: 35px;
}
input:focus {
  border: 1px solid #868686;
}
input[type="checkbox"] {
  cursor: pointer;
  height: auto;
```

```
}
input::placeholder {
  font-size: 14px;
}
.search-dlt-cont span {
  font-size: 24px;
  font-weight: 700;
}
.table-container {
  overflow: auto;
  width: 100%;
  box-shadow: 3px 2px 10px #d3d3d3;
  background: white;
  border: 1px solid #e4e4e4;
  scrollbar-width: thin;
  margin: 0.5rem 0;
}
.table-container tr {
  height: auto;
  min-height: 40px;
}
table {
  background-color: #fff;
```

```
border-radius: 10px;
  border-collapse: collapse;
  color: #3e3e3e;
  width: 100%;
  min-width: 1400px;
  table-layout: fixed;
}
thead {
  position: sticky;
  top: 0;
  background-color: #efefef;
  color: #6e6e6e;
  z-index: 10;
  text-align: center;
  font-size: 14px;
}
tbody {
  overflow-y: auto;
  width: 100%;
  scrollbar-width: thin;
  background-color: #ffffff;
  font-weight: 600;
}
tr th {
  padding: 0.5rem;
```

```
}
table tr {
  border-bottom: 1px solid #eeeded;
}
td {
  padding: 0.8rem;
  font-size: 14px;
  text-align: center;
  word-wrap: break-word;
}
th:first-child {
  background-color: #efefef;
}
td:first-child {
  background-color: #ffffff;
}
th:first-child,
td:first-child {
  position: sticky;
  left: 0;
  top: 0;
  z-index: 5;
  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: 0.5rem 0.8rem;
  border-radius: 5px;
  border: none;
  background-color: #4f8091;
  color: white;
  cursor: pointer;
  font-size: 14px;
  margin-left: 10px;
  text-decoration: none;
}
.cancel, .uc {
  margin: 0;
```

```
}
.add {
  background: linear-gradient(135deg, #4f8091, #2b5a68);
}
.btn-cd i {
  font-size: 12px;
  margin-right: 5px;
}
.dlt {
  background: linear-gradient(135deg, #e37272, #c94b4b);
  color: #ffffff;
}
.cancel {
  background-color: white;
  color: black;
  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: #535353;
}
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: #3e3e3e;
  font-size: 20px;
}
.title-cont {
  display: flex;
  justify-content: center;
  align-items: center;
}
.search-dlt-cont {
  width: 95%;
  display: flex;
  justify-content: space-between;
  align-items: center;
  margin: 1rem;
  gap: 1rem;
}
#search {
  padding: 5px 0;
  border: none;
  width: 100%;
}
```

```
.search-cont {
  display: flex;
  align-items: center;
  border: 1px solid #ccc;
  width: 40%;
  color: #878787;
  padding: 0 1rem;
  border-radius: 5px;
}
.search-cont i {
  font-size: 14px;
  margin-right: 10px;
}
.search-cd-cont {
  display: flex;
  justify-content: flex-end;
  width: 70%;
}
```

package.json

```
"ember-auto-import": "^2.10.0'
"ember-cli": "~5.9.0",
"ember-cli-app-version": "^7.6
```

```
"ember-source": "~5.9.0",
"ember-template-imports": "^4
```