Search Result Documentation
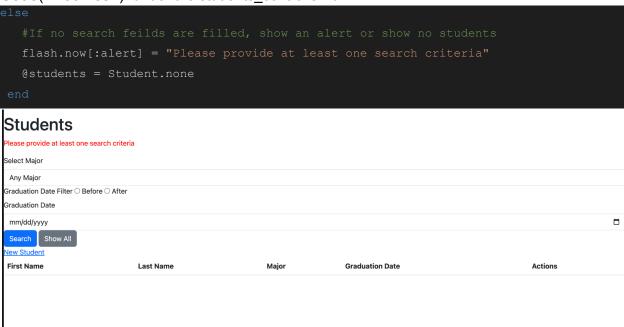
Overall(ie what should it do and look at in the end)

User Story(provided by Deb): As an employer, I want to be able to search for students to filter based on major and graduation date.

In the end: In the end you should be able to search by graduation date or major or both and only output first name, last name, major, graduation date, and the actions for that student(show, edit, and delete).

Steps

1.No student will be displayed until a search is completed

Code(what files?): under the students_controller.rb

```
else
   #If no search feilds are filled, show an alert or show no students
   flash.now[:alert] = "Please provide at least one search criteria"
   @students = Student.none
 end
```

Students

Please provide at least one search criteria

Select Major

Any Major

Graduation Date Filter ○ Before ○ After

Graduation Date

mm/dd/yyyy

[Search] [Show All]

New Student

First Name	Last Name	Major	Graduation Date	Actions

How it works: There will be a message, in red, at the top of the page instructing the user to fill at least one search criteria out, i.e. the graduation date field or the major field. Once either field or both fields are filled out and searched the message goes away.

You will also need to add the button to make the search

Code(what files?): _Search_form.erb

```
<div>
   <!--submit button and show all button-->
    <%= form.submit "Search", class: "btn btn-primary" %>
</div>
```

2.An option to show all students if chosen
Code(what files?): students_controller.rb

```ruby
if params[:show_all]
    @students = Student.all
```


How it works: This code will show all students in your database.

You will also need to add the button to make the search
Code(what files?): _Search_form.erb

```erb
<div>
   <!--submit button and show all button-->
     <%= form.submit "Search", class: "btn btn-primary" %>
     <%= link_to "Show All", students_path(show_all: true), class: "btn btn-secondary" %>
   </div>
```

3.When searching for a student an employer should be able to pick a filter one or both of the following to display students
-Pick a major
-Pick before or after graduation date
Code(what files?):

```ruby
elsif @search_params[:major].present? || @search_params[:graduation_date].present?
    #Filter by major is provided
    if @search_params[:major].present? && @search_params[:major] != "all"
      @students = @students.where(major: @search_params[:major])
```

```
      end
    #Filter by graduation date if the date and before/after is provided
    if @search_params[:grad_date_filter].present? &&
@search_params[:graduation_date].present?
      begin
        selected_date = Date.parse(@search_params[:graduation_date])
        Rails.logger.info "Parsed Date: #{selected_date}"

        if @search_params[:grad_date_filter] == 'before'
          @students = @students.where("graduation_date < ?", selected_date)
        elsif @search_params[:grad_date_filter] == 'after'
          @students = @students.where("graduation_date > ?", selected_date)
        end


      rescue ArgumentError
        #Return no results if date is invalid
        flash.now[:alert] = "Invalid date format"
        @students = Student.none
      end
    end
  end
```

How it works: This code checks to see which field you entered information in and if you didnt fill the form/field out correctly there will be an alert that will show up telling you to go back and fix the wrong form/field. It then sees which field is imputed, if its only the major it will only show the students that are in that major that you selected, if its only the graduation date then it will show the students that are either before or after that date, and if its both fields it takes that major and graduation date and only shows the following students that meet that criteria.

Code(what files?): _Search_form.erb
```
<div>
  <!--Choose the Major-->
    <%= form.label :major, "Select Major", class: "form-label" %>
    <%= form.select :major, options_for_select(Student::VALID_MAJORS), { prompt: "Any
Major" }, name: 'search[major]', class: "form-control" %>
  </div>

  <div>
  <!--Graduation date filter(Before or After)-->
    <%= form.label :grad_date_filter, "Graduation Date Filter", class: "form-label"
%>
    <%= form.radio_button :grad_date_filter, 'before', checked: params.dig(:search,
:grad_date_filter) == 'before',  name: 'search[grad_date_filter]' %> Before
```

```
      <%= form.radio_button :grad_date_filter, 'after', checked: params.dig(:search,
:grad_date_filter) == 'after',  name: 'search[grad_date_filter]' %> After
  </div>


  <div>
  <!--Date Picker-->
      <%= form.label :graduation_date, "Graduation Date", class: "form-label" %>
      <%= form.date_field :graduation_date, value: params.dig(:search,
:graduation_date), name: 'search[graduation_date]', class: "form-control" %>
  </div>
```

4.Search results should only display First and Last name, major, graduation date, and actions(Show, Edit, Delete)
How it works: How it works: This code creates a table only showing the first name, last name, graduation date, and the actions(show, edit, and delete).

Code(what files?): index.html.erb

```
<table class="table">
 <thead>
   <tr>
     <th>First Name</th>
     <th>Last Name</th>
     <th>Major</th>
     <th>Graduation Date</th>
     <th>Actions</th>
   </tr>
 </thead>
 <tbody>
   <% @students.each do |student| %>
     <tr>
       <td><%= student.first_name %></td>
       <td><%= student.last_name %></td>
       <td><%= student.major %></td>
       <td><%= student.graduation_date %></td>
       <td>
         <%= link_to 'Show', student_path(student), class: "btn btn-secondary
hover-grow" %>
         <%= link_to 'Edit', edit_student_path(student), class: "btn btn-success
hover-grow" %>
         <%= link_to 'Delete', student_path(student), method: :delete, data: {
confirm: "Are you sure?" }, class: "btn btn-danger hover-grow" %>
```

```
        </td>
    </tr>
  <% end %>
 </tbody>
</table>
```

First Name	Last Name	Major	Graduation Date	Actions
First 1	Last 1	Cybersecurity Major	2025-09-02	Show Edit Delete
First 2	Last 2	Data Science and Machine Learning Major	2022-11-03	Show Edit Delete
First 3	Last 3	Cybersecurity Major	2026-03-09	Show Edit Delete
First 4	Last 4	Cybersecurity Major	2026-09-27	Show Edit Delete
First 5	Last 5	Computer Science BS	2025-09-08	Show Edit Delete
First 6	Last 6	Data Science and Machine Learning Major	2023-06-20	Show Edit Delete
First 7	Last 7	Computer Information Systems BS	2024-11-10	Show Edit Delete
First 8	Last 8	Cybersecurity Major	2024-04-24	Show Edit Delete
First 9	Last 9	Data Science and Machine Learning Major	2024-07-30	Show Edit Delete
First 10	Last 10	Cybersecurity Major	2023-05-26	Show Edit Delete
First 11	Last 11	Computer Engineering BS	2023-12-08	Show Edit Delete

Search Show All
New Student

Final result code
student_controller.rb

```ruby
class StudentsController < ApplicationController
 before_action :set_student, only: %i[ show edit update destroy ]

 # GET /students or /students.json
 def index
   @search_params = params[:search] || {}
   @students = Student.all

   #"Show All" button shows all students
   if params[:show_all]
     @students = Student.all

   #Searches only if major or graduation date is filled out correctly
   elsif @search_params[:major].present? || @search_params[:graduation_date].present?
     #Filter by major is provided
     if @search_params[:major].present? && @search_params[:major] != "all"
```

```ruby
      @students = @students.where(major: @search_params[:major])
    end
    #Filter by graduation date if the date and before/after is provided
    if @search_params[:grad_date_filter].present? &&
@search_params[:graduation_date].present?
    begin
      selected_date = Date.parse(@search_params[:graduation_date])
      Rails.logger.info "Parsed Date: #{selected_date}"

      if @search_params[:grad_date_filter] == 'before'
        @students = @students.where("graduation_date < ?", selected_date)
      elsif @search_params[:grad_date_filter] == 'after'
        @students = @students.where("graduation_date > ?", selected_date)
      end


    rescue ArgumentError
      #Return no results if date is invalid
      flash.now[:alert] = "Invalid date format"
      @students = Student.none
    end
  end

else
  #If no search feilds are filled, show an alert or show no students
  flash.now[:alert] = "Please provide at least one search criteria"
  @students = Student.none
end

  Rails.logger.info "Search Params: #{@search_params.inspect}"
  Rails.logger.info "Resulting Students: #{@search.inspect}"
end

# GET /students/1 or /students/1.json
def show
end

# GET /students/new
def new
  @student = Student.new
end

# GET /students/1/edit
```

```ruby
  def edit
  end

  # POST /students or /students.json
  def create
    @student = Student.new(student_params)

    respond_to do |format|
      if @student.save
        format.html { redirect_to student_url(@student), notice: "Student was
successfully created." }
        format.json { render :show, status: :created, location: @student }
      else
        format.html { render :new, status: :unprocessable_entity }
        format.json { render json: @student.errors, status: :unprocessable_entity }
      end
    end
  end

  # PATCH/PUT /students/1 or /students/1.json
  def update
    respond_to do |format|
      if @student.update(student_params)
        format.html { redirect_to student_url(@student), notice: "Student was
successfully updated." }
        format.json { render :show, status: :ok, location: @student }
      else
        format.html { render :edit, status: :unprocessable_entity }
        format.json { render json: @student.errors, status: :unprocessable_entity }
      end
    end
  end

  # DELETE /students/1 or /students/1.json
  def destroy
    @student.destroy!

    respond_to do |format|
      format.html { redirect_to students_url, notice: "Student was successfully
destroyed." }
      format.json { head :no_content }
    end
```

```ruby
  end

private
  # Use callbacks to share common setup or constraints between actions.
  def set_student
    @student = Student.find(params[:id])
  end

  # Only allow a list of trusted parameters through.
  def student_params
    params.require(:student).permit(:first_name, :last_name, :school_email, :major,
:minor, :graduation_date, :profile_picture)
  end
end
```

_search_form.html.erb

```erb
<%= form_with(url: students_path, method: :get, local: true, class: "form-inline") do
|form| %>
  <div>
  <!--Choose the Major-->
    <%= form.label :major, "Select Major", class: "form-label" %>
    <%= form.select :major, options_for_select(Student::VALID_MAJORS), { prompt: "Any
Major" }, name: 'search[major]', class: "form-control" %>
  </div>

  <div>
  <!--Graduation date filter(Before or After)-->
      <%= form.label :grad_date_filter, "Graduation Date Filter", class: "form-label"
%>
      <%= form.radio_button :grad_date_filter, 'before', checked: params.dig(:search,
:grad_date_filter) == 'before',  name: 'search[grad_date_filter]' %> Before
      <%= form.radio_button :grad_date_filter, 'after', checked: params.dig(:search,
:grad_date_filter) == 'after',  name: 'search[grad_date_filter]' %> After
  </div>

  <div>
  <!--Date Picker-->
      <%= form.label :graduation_date, "Graduation Date", class: "form-label" %>
      <%= form.date_field :graduation_date, value: params.dig(:search,
:graduation_date), name: 'search[graduation_date]', class: "form-control" %>
```

```erb
    </div>

  <div>
  <!--submit button and show all button-->
    <%= form.submit "Search", class: "btn btn-primary" %>
    <%= link_to "Show All", students_path(show_all: true), class: "btn btn-secondary"
%>
  </div>
<% end %>
```

index.html.erb

```erb
<p style="color: green"><%= notice %></p>

<h1>Students</h1>
<% if flash[:alert] %>
  <p style="color: red"><%= flash[:alert] %></p>
<% end %>

<%= render 'search_form', search_params: @search_params %>



<%= link_to "New Student", new_student_path %>

<table class="table">
 <thead>
   <tr>
     <th>First Name</th>
     <th>Last Name</th>
     <th>Major</th>
     <th>Graduation Date</th>
     <th>Actions</th>
   </tr>
 </thead>
 <tbody>
   <% @students.each do |student| %>
     <tr>
       <td><%= student.first_name %></td>
       <td><%= student.last_name %></td>
       <td><%= student.major %></td>
       <td><%= student.graduation_date %></td>
```

```erb
      <td>
        <%= link_to 'Show', student_path(student), class: "btn btn-secondary
hover-grow" %>
        <%= link_to 'Edit', edit_student_path(student), class: "btn btn-success
hover-grow" %>
        <%= link_to 'Delete', student_path(student), method: :delete, data: {
confirm: "Are you sure?" }, class: "btn btn-danger hover-grow" %>
      </td>
    </tr>
  <% end %>
 </tbody>
</table>
```