

1 ControladorMatriculas.php → model: AlunoDisciplina

- php artisan make:controller ControladorMatriculas -r

1.1 Inclusões e método construtor

```
1 use Illuminate\Support\Facades\Auth;
2 use App\Models\Aluno;
3 use App\Models\Disciplina;
4 use App\Models\AlunoDisciplina;
5 use Illuminate\Support\Facades\DB;
6
7 public function __construct()
8 {
9     $this->middleware('auth');
10 }
```

1.2 método index()

```
1 public function index()
2 {
3     return view('matriculas');
4 }
```

1.3 método create()

```
1 public function create()
2 {
3     $alunos = DB::table('alunos')->orderBy('nome')->get();
4     $disciplinas = DB::table('disciplinas')->orderBy('nome')->get();
5     return view('novaMatricula', compact('alunos', 'disciplinas'));
6 }
```

1.4 método store()

```
1 public function store(Request $request)
2 {
3     $dados = new AlunoDisciplina();
4     $dados->aluno_id = $request->input('aluno');
5     $dados->disciplina_id = $request->input('disciplina');
6     $dados->dataMatricula = $request->input('dataMatricula');
7     $dados->save();
8     return redirect('/matriculas');
9 }
```

1.5 método destroy()

```
1 public function destroy($id)
2 {
3     $dados = AlunoDisciplina::find($id);
4     if(isset($dados))
5         $dados->delete();
6     else
7         return response('Matrícula não encontrada', 404);
8     return redirect('/matriculas');
9 }
```

1.6 método alunoDisciplina()

```
1 public function alunoDisciplina()  
2 {  
3     $dados = Aluno::all();  
4     return view('alunoDisciplina', compact('dados'));  
5 }
```

1.7 método disciplinaAluno()

```
1 public function disciplinaAluno()  
2 {  
3     $dados = Disciplina::all();  
4     return view('disciplinaAluno', compact('dados'));  
5 }
```

1.8 método pesquisarAluno(Request \$request)

```
1 public function pesquisarAluno(Request $request)  
2 {  
3     $aluno = Aluno::find($request->input('aluno_id'));  
4     $dados = AlunoDisciplina::where('aluno_id', $request->input('aluno_id'))  
5         ->get();  
6     $dados->nomeAluno = $aluno->nome;  
7     foreach($dados as $item){  
8         $disciplina = Disciplina::find($item->disciplina_id);  
9         $item->nomeDisciplina = $disciplina->nome;  
10    }  
11    return view('matriculasAluno', compact('dados'));  
12 }
```

1.9 método pesquisarDisciplina(Request \$request)

```
1 public function pesquisarDisciplina(Request $request)  
2 {  
3     $Disciplina = Disciplina::find($request->input('disciplina_id'));  
4     $dados = AlunoDisciplina::where('disciplina_id', $request->input('disciplina_id'))->get();  
5     $dados->nomeDisciplina = $Disciplina->nome;  
6     foreach($dados as $item){  
7         $aluno = Aluno::find($item->aluno_id);  
8         $item->nomeAluno = $aluno->nome;  
9     }  
10    return view('matriculasDisciplina', compact('dados'));  
11 }
```

2 Views

2.1 matriculas.blade.php

```
1 @extends('layout.app', ["current" => "matriculas"])  
2  
3 @section('body')  
4     <div class="jumbotron bg-light border border-secondary">  
5         <div class="row">  
6             <div class="card-deck">  
7                 <div class="card border border-primary">  
8                     <div class="card-body">  
9                         <h5 class="card-title">Matrículas por Aluno</h5>  
10                        <p class="card-text">  
11                            Pesquise as matrículas realizadas por aluno
```

```

12         </p>
13         <a href="/alunoDisciplina" class="btn btn-primary">
            Pesquisar Aluno</a>
14     </div>
15 </div>
16 <div class="card border border-primary">
17     <div class="card-body">
18         <h5 class="card-title">Matrículas por Disciplina
            </h5>
19         <p class="card-text">
20             Pesquise as matrículas efetuadas por
                disciplina
21         </p>
22         <a href="/disciplinaAluno" class="btn btn-
            primary">Pesquisar Disciplina</a>
23     </div>
24 </div>
25
26 </div>
27 </div>
28 <div class="card-footer">
29     <a href="/matriculas/novo" class="btn btn-primary btn-sm" role="
        button">Nova Matrícula</a>
30 </div>
31 </div>
32 @endsection

```

2.2 alunoDisciplina.blade.php

```

1 @extends('layout.app', ["current"=>"matriculas"])
2 @section('body')
3 <div class="card border">
4     <div class="card-body">
5         <form action="/alunoDisciplina" method="POST">
6             @csrf
7             <div class="form-group">
8                 <label for="Aluno">Nome do Aluno</label><br />
9                 <select name="aluno_id">
10                     @foreach ($dados as $item)
11                         <option value="{{ $item->id }}">{{ $item->nome }}</
                            option>
12                     @endforeach
13                 </select>
14             </div>
15             <button type="submit" class="btn btn-primary btn-sm">Pesquisar</
                button>
16             <button onclick="window.location.href='/matriculas';" type="
                button" class="btn btn-danger btn-sm">Cancelar</button>
17         </form>
18     </div>
19 </div>
20 @endsection

```

2.3 matriculasAluno.blade.php

```

1 @extends('layout.app', ["current" => "matriculas"])
2 @section('body')
3     <div class="card border">
4         @if(session()->get('danger'))
5             <div class="alert alert-danger">
6                 {{ session()->get('danger') }}

```

```

7         </div><br />
8     @endif
9     <div class="card-body">
10         <h5 class="card-title" style="text-align: center">Matriculas do
            Aluno: {{ $dados->nomeAluno }}</h5>
11         <table class="table table-ordered table-hover" id="
            tabelaAlunos">
12             <thead>
13                 <tr>
14                     <th>Código</th>
15                     <th>Nome da Disciplina</th>
16                     <th>Data da Matrícula</th>
17                     <th style="text-align: center">Ações</th>
18                 </tr>
19             </thead>
20             <tbody>
21                 @foreach ($dados as $item)
22                     <tr>
23                         <td>{{ $item->disciplina_id }}</td>
24                         <td>{{ $item->nomeDisciplina }}</td>
25                         <td>{{ $item->dataMatricula }}</td>
26                         <td style="text-align: center">
27                             <a href="/matriculas/apagar/{{ $item->id }}"
                                class="btn btn-danger">Deletar</a>
28                         </td>
29                     </tr>
30                 @endforeach
31             </tbody>
32         </table>
33     </div>
34     <div class="card-footer">
35         <a href="/matriculas" class="btn btn-info btn-sm" role="button">
            Voltar</a>
36     </div>
37 </div>
38 @endsection

```

2.4 disciplinaAluno.blade.php

```

1 @extends('layout.app', ["current"=>"matriculas"])
2 @section('body')
3 <div class="card border">
4     <div class="card-body">
5         <form action="/disciplinaAluno" method="POST">
6             @csrf
7             <div class="form-group">
8                 <label for="Disciplina">Nome da Disciplina</label><br />
9                 <select name="disciplina_id">
10                     @foreach ($dados as $item)
11                         <option value="{{ $item->id }}">{{ $item->nome }}</
                            option>
12                     @endforeach
13                 </select>
14             </div>
15             <button type="submit" class="btn btn-primary btn-sm">Pesquisar</
                button>
16             <button onclick="window.location.href='/matriculas';" type="
                button" class="btn btn-danger btn-sm">Cancelar</button>
17         </form>
18     </div>
19 </div>

```

```
20
21 @endsection
```

2.5 matriculasDisciplina.blade.php

```
1 @extends('layout.app', ["current" => "matriculas"])
2 @section('body')
3     <div class="card border">
4         @if(session()->get('danger'))
5             <div class="alert alert-danger">
6                 {{ session()->get('danger') }}
7             </div><br />
8         @endif
9         <div class="card-body">
10             <h5 class="card-title" style="text-align: center">Matriculas da
11                 Disciplina: {{ $dados->nomeDisciplina }}</h5>
12             <table class="table table-ordered table-hover" id="
13                 tabelaDisciplinas">
14                 <thead>
15                     <tr>
16                         <th>Código</th>
17                         <th>Nome do Aluno</th>
18                         <th>Data da Matrícula</th>
19                         <th style="text-align: center">Ações</th>
20                     </tr>
21                 </thead>
22                 <tbody>
23                     @foreach ($dados as $item)
24                         <tr>
25                             <td>{{ $item->aluno_id }}</td>
26                             <td>{{ $item->nomeAluno }}</td>
27                             <td>{{ $item->dataMatricula }}</td>
28                             <td style="text-align: center">
29                                 <a href="/matriculas/apagar/{{ $item->id }}"
30                                     class="btn btn-danger">Deletar</a>
31                             </td>
32                         </tr>
33                     @endforeach
34                 </tbody>
35             </table>
36             <div class="card-footer">
37                 <a href="/matriculas" class="btn btn-info btn-sm" role="button">
38                     Voltar</a>
39             </div>
40         </div>
41     @endsection
```

2.6 novaMatricula.blade.php

```
1 @extends('layout.app', ["current"=>"matriculas"])
2 @section('body')
3     <div class="card border">
4         <div class="card-body">
5             <form action="/matriculas" method="POST" autocomplete="off">
6                 @csrf
7                 <div class="form-group">
8                     <label for="aluno">Nome do Aluno</label><br />
9                     <select name="aluno">
10                         @foreach ($alunos as $item)
11                             <option value="{{ $item->id }}">{{ $item->nome }}</
12                             option>
```

```

12         @endforeach
13     </select>
14 </div>
15 <div class="form-group">
16     <label for="disciplina">Nome da Disciplina</label><br />
17     <select name="disciplina">
18         @foreach ($disciplinas as $item)
19             <option value="{{ $item->id }}">{{ $item->nome }}</
                option>
20         @endforeach
21     </select>
22 </div>
23 <div class="form-group">
24     <label for="dataMatricula">Data da Matrícula</label>
25     <input type="text" class="datepicker form-control" name="
        dataMatricula" id="dataMatricula"/>
26     <div class="input-group-addon">
27         <span class="glyphicon glyphicon-calendar"></span>
28     </div>
29 </div>
30 <button type="submit" class="btn btn-primary btn-sm">Salvar</
    button>
31 <button onclick="window.location.href='/matriculas';" type="
    button" class="btn btn-danger btn-sm">Cancelar</button>
32 </form>
33 </div>
34 </div>
35 @endsection
36 @section('javascript')
37 <script type="text/javascript">
38     $(document).ready(function(){
39
40         $('<strong>.datepicker</strong>').datepicker({
41             format: "dd/mm/yyyy",
42             language: "pt-BR",
43             autoclose: true
44         });
45     });
46 </script>
47 @endsection

```

3 Rotas → \routes\web.php

```

1 Route::get('/matriculas', [App\Http\Controllers\ControladorMatriculas::class
    , 'index']);
2 Route::get('/matriculas/novo', [App\Http\Controllers\ControladorMatriculas::
    class, 'create']);
3 Route::post('/matriculas', [App\Http\Controllers\ControladorMatriculas::
    class, 'store']);
4 Route::get('/matriculas/apagar/{id}', [App\Http\Controllers\
    ControladorMatriculas::class, 'destroy']);
5 Route::get('/alunoDisciplina', [App\Http\Controllers\ControladorMatriculas::
    class, 'alunoDisciplina']);
6 Route::get('/disciplinaAluno', [App\Http\Controllers\ControladorMatriculas::
    class, 'disciplinaAluno']);
7 Route::post('/alunoDisciplina', [App\Http\Controllers\ControladorMatriculas
    ::class, 'pesquisarAluno']);
8 Route::post('/disciplinaAluno', [App\Http\Controllers\ControladorMatriculas
    ::class, 'pesquisarDisciplina']);

```

4 Ajustes finais

4.1 Ajustando o método destroy() no ControladorAluno e no ControladorDisciplina

Para que não haja um erro de integridade referencial, um Aluno ou uma Disciplina só poderão ser excluídos, caso não haja nenhuma matrícula vinculada.

4.1.1 ControladorAluno.php

```
1 use App\Models\AlunoDisciplina;
2 .
3 .
4 .
5 public function destroy($id)
6 {
7     $dados = Aluno::find($id);
8     if(isset($dados)){
9         $matriculas = AlunoDisciplina::where('aluno_id', '=', $id)->first();
10        if(!isset($matriculas))
11            $dados->delete();
12        else
13            return redirect('/alunos')->with('danger', 'Aluno não pode ser
14                excluído');
15        }else{
16            return response('Aluno não encontrado', 404);
17        }
18    return redirect('/alunos');
```

4.1.2 ControladorDisciplina.php

```
1 use App\Models\AlunoDisciplina;
2 .
3 .
4 .
5 public function destroy($id)
6 {
7     $dados = Disciplina::find($id);
8     if(isset($dados)){
9         $matriculas = AlunoDisciplina::where('disciplina_id', '=', $id)->
10            first();
11        if(!isset($matriculas))
12            $dados->delete();
13        else
14            return redirect('/disciplinas')->with('danger', 'Disciplina não
15                pode ser excluída');
16        }else
17            return response('Disciplina não encontrada', 404);
18    return redirect('/disciplinas');
```

4.2 Mutators

Mutators são métodos definidos para acessar ou para enviar dados para o BD.

4.2.1 Definindo os mutators para o campo dataMatricula → AlunoDisciplina.php

```

1 public function getDataMatriculaAttribute(){
2     $dataConvertida = implode('/', array_reverse(explode('-', $this->
3         attributes['dataMatricula'])));
4     return $dataConvertida;
5 }
6 public function setDataMatriculaAttribute($value){
7     $this->attributes['dataMatricula'] = implode('-', array_reverse(explode(
8         '/', $value)));
9 }

```

4.3 Utilizando o Bootstrap datepicker

Para criarmos um calendário, possibilitando ao usuário selecionar a data para matrícula, utilizaremos o bootstrap datepicker.

```

npm install bootstrap-datepicker
npm run dev
ls node_modules/bootstrap-datepicker/dist/js

```

A pasta public do seu projeto deve conter os arquivos:

- \public\js
 - jquery-3.6.0.min.js
- \public\datePicker
 - \public\datePicker\css

```

marcelo@Eddie:~/ProjetosLaravel/ProjetoExemplo/public/datePicker/css$ ls
bootstrap-datepicker3.css  bootstrap-datepicker3.standalone.css  bootstrap-datepicker.css  bootstrap-datepicker.standalone.css
bootstrap-datepicker3.map  bootstrap-datepicker3.standalone.css.map  bootstrap-datepicker.css.map  bootstrap-datepicker.standalone.css.map
* bootstrap-datepicker3.min.css  bootstrap-datepicker3.standalone.min.css  bootstrap-datepicker.min.css  bootstrap-datepicker.standalone.min.css

```

- \public\datePicker\js

```

marcelo@Eddie:~/ProjetosLaravel/ProjetoExemplo/public/datePicker/js$ ls
bootstrap-datepicker.js  bootstrap-datepicker.min.js

```

- \public\datePicker\locales

```

marcelo@Eddie:~/ProjetosLaravel/ProjetoExemplo/public/datePicker/locales$ ls
bootstrap-datepicker.ar.min.js  bootstrap-datepicker.eo.min.js  bootstrap-datepicker.kh.min.js  bootstrap-datepicker.ru.min.js
bootstrap-datepicker.ar-tn.min.js  bootstrap-datepicker.es.min.js  bootstrap-datepicker.kk.min.js  bootstrap-datepicker.si.min.js
bootstrap-datepicker.az.min.js  bootstrap-datepicker.et.min.js  bootstrap-datepicker.km.min.js  bootstrap-datepicker.sk.min.js
bootstrap-datepicker.bg.min.js  bootstrap-datepicker.eu.min.js  bootstrap-datepicker.ko.min.js  bootstrap-datepicker.sl.min.js
bootstrap-datepicker.bm.min.js  bootstrap-datepicker.fa.min.js  bootstrap-datepicker.kr.min.js  bootstrap-datepicker.sq.min.js
bootstrap-datepicker.bn.min.js  bootstrap-datepicker.fi.min.js  bootstrap-datepicker.lt.min.js  bootstrap-datepicker.sr-latin.min.js
bootstrap-datepicker.br.min.js  bootstrap-datepicker.fo.min.js  bootstrap-datepicker.lv.min.js  bootstrap-datepicker.sr.min.js
bootstrap-datepicker.bs.min.js  bootstrap-datepicker.fr-CH.min.js  bootstrap-datepicker.me.min.js  bootstrap-datepicker.sv.min.js
bootstrap-datepicker.ca.min.js  bootstrap-datepicker.fr.min.js  bootstrap-datepicker.mk.min.js  bootstrap-datepicker.sw.min.js
bootstrap-datepicker.cs.min.js  bootstrap-datepicker.gl.min.js  bootstrap-datepicker.mn.min.js  bootstrap-datepicker.ta.min.js
bootstrap-datepicker.cy.min.js  bootstrap-datepicker.he.min.js  bootstrap-datepicker.ms.min.js  bootstrap-datepicker.tg.min.js
bootstrap-datepicker.da.min.js  bootstrap-datepicker.hr.min.js  bootstrap-datepicker.nl-BE.min.js  bootstrap-datepicker.th.min.js
bootstrap-datepicker.de.min.js  bootstrap-datepicker.hi.min.js  bootstrap-datepicker.nl.min.js  bootstrap-datepicker.tk.min.js
bootstrap-datepicker.el.min.js  bootstrap-datepicker.hu.min.js  bootstrap-datepicker.no.min.js  bootstrap-datepicker.tr.min.js
bootstrap-datepicker.en-AU.min.js  bootstrap-datepicker.hy.min.js  bootstrap-datepicker.oc.min.js  bootstrap-datepicker.uk.min.js
bootstrap-datepicker.en-CA.min.js  bootstrap-datepicker.id.min.js  bootstrap-datepicker.pl.min.js  bootstrap-datepicker.uz-cyrl.min.js
bootstrap-datepicker.en-GB.min.js  bootstrap-datepicker.is.min.js  bootstrap-datepicker.pt-BR.min.js  bootstrap-datepicker.uz-latn.min.js
bootstrap-datepicker.en-IE.min.js  bootstrap-datepicker.it-CH.min.js  bootstrap-datepicker.pt.min.js  bootstrap-datepicker.vi.min.js
bootstrap-datepicker.en-IN.min.js  bootstrap-datepicker.it.min.js  bootstrap-datepicker.ro.min.js  bootstrap-datepicker.zh-CN.min.js
bootstrap-datepicker.en-NZ.min.js  bootstrap-datepicker.ja.min.js  bootstrap-datepicker.rs-latin.min.js  bootstrap-datepicker.zh-TW.min.js
* bootstrap-datepicker.en-ZA.min.js  bootstrap-datepicker.ka.min.js  bootstrap-datepicker.rs.min.js

```