

Inner join di laravel

buat table seperti ini

The screenshot shows the 'Structure' tab for the 'nilai' table in the 'latihan_smk_ds' database. The table has five columns: 'id' (int, primary key, auto-increment), 'siswa_id' (int), 'nilai' (int), 'created_at' (timestamp), and 'updated_at' (timestamp). A foreign key constraint 'PRIMARY' is defined on the 'id' column, pointing to the 'id' column in the 'siswa' table.

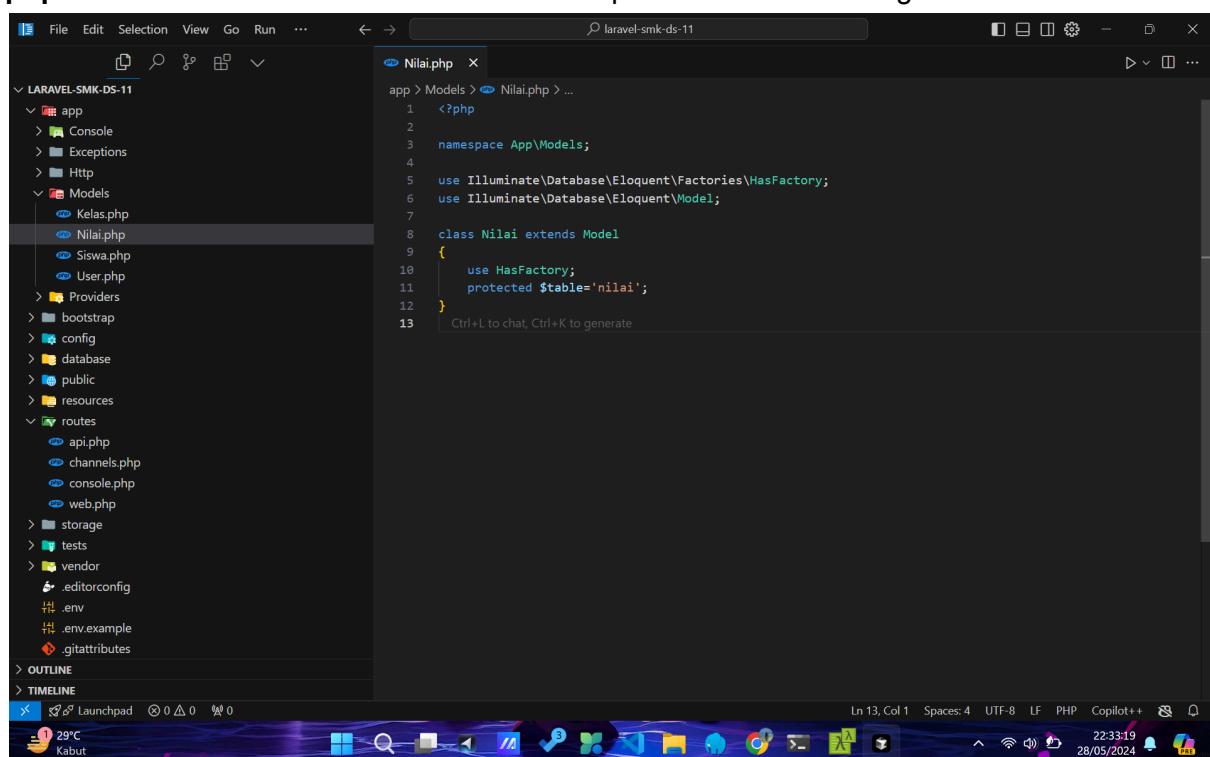
lalu klik Relation view dan buat relasi untuk database nya. lalu klik save

The screenshot shows the 'Relation view' tab for the 'nilai' table. A new foreign key constraint is being created, named 'PRIMARY'. It points from the 'siswa_id' column in the 'nilai' table to the 'id' column in the 'siswa' table. The 'ON DELETE' and 'ON UPDATE' actions are set to 'RESTRICT'. The 'Save' button is visible at the bottom.

- Penjelasan: Tindakan **RESTRICT** mencegah penghapusan atau pembaruan dari sebuah baris yang memiliki referensi dari tabel lain. Dengan kata lain, jika ada baris di tabel anak yang mereferensikan baris di tabel induk, maka Anda tidak diizinkan untuk menghapus atau memperbarui baris tersebut di tabel induk.
- Penjelasan: Tindakan **CASCADE** berarti bahwa perubahan yang dilakukan pada baris di tabel induk akan otomatis mempengaruhi baris di tabel anak yang mereferensikan baris tersebut. Ini dapat diterapkan baik pada penghapusan data.
- Penjelasan: Tindakan **SET NULL** berarti bahwa ketika baris di tabel induk dihapus atau diperbarui, kolom yang mereferensikan baris tersebut di tabel anak akan diatur menjadi NULL. Contoh Penghapusan: Jika Anda menghapus baris di tabel customers, maka kolom customer_id di tabel orders yang mereferensikannya akan diatur menjadi NULL.

buat controller untuk route siswa

jalan kan **php artisan make:controller NilaiController** dan buat model untuk table nilai
php artisan make:model Nilai setelah itu tetapkan **model Nilai** dengan **table nilai**



The screenshot shows a code editor with the following details:

- Project Structure:** The left sidebar shows the Laravel project structure under "LARAVEL-SMK-DS-11". It includes the app, config, database, public, resources, routes, storage, tests, vendor, and various PHP files like Kelas.php, Nilai.php, Siswa.php, and User.php.
- Code Editor:** The main window displays the contents of the "Nilai.php" file located at "app/Models/Nilai.php". The code is as follows:

```

1 <?php
2
3 namespace App\Models;
4
5 use Illuminate\Database\Eloquent\Factories\HasFactory;
6 use Illuminate\Database\Eloquent\Model;
7
8 class Nilai extends Model
9 {
10     use HasFactory;
11     protected $table='nilai';
12 }

```

- Editor Status:** The bottom status bar indicates "Ln 13, Col 1" and "Spaces: 4". It also shows file statistics: "0 △ 0" and "0 △ 0".
- System Status:** The taskbar at the bottom shows system icons for battery (29°C), network, and date/time (22:33:19, 28/05/2024).

lalu buat route untuk halaman nilai

The screenshot shows the VS Code interface with the project 'LARAVEL-SMK-DS-11' open. The 'routes/web.php' file is selected in the center editor pane. The code defines a route for the 'nilai' controller's 'index' method:

```
41
42
43
44 // route halaman nilai
45 Route::get('nilai',[NilaiController::class,'index'])->name('nilai');
```

A status bar at the bottom indicates the file is 1178 lines long and has 28 reviews pending. A notification in the bottom right corner says 'Laravel Extra Intellisense error'.

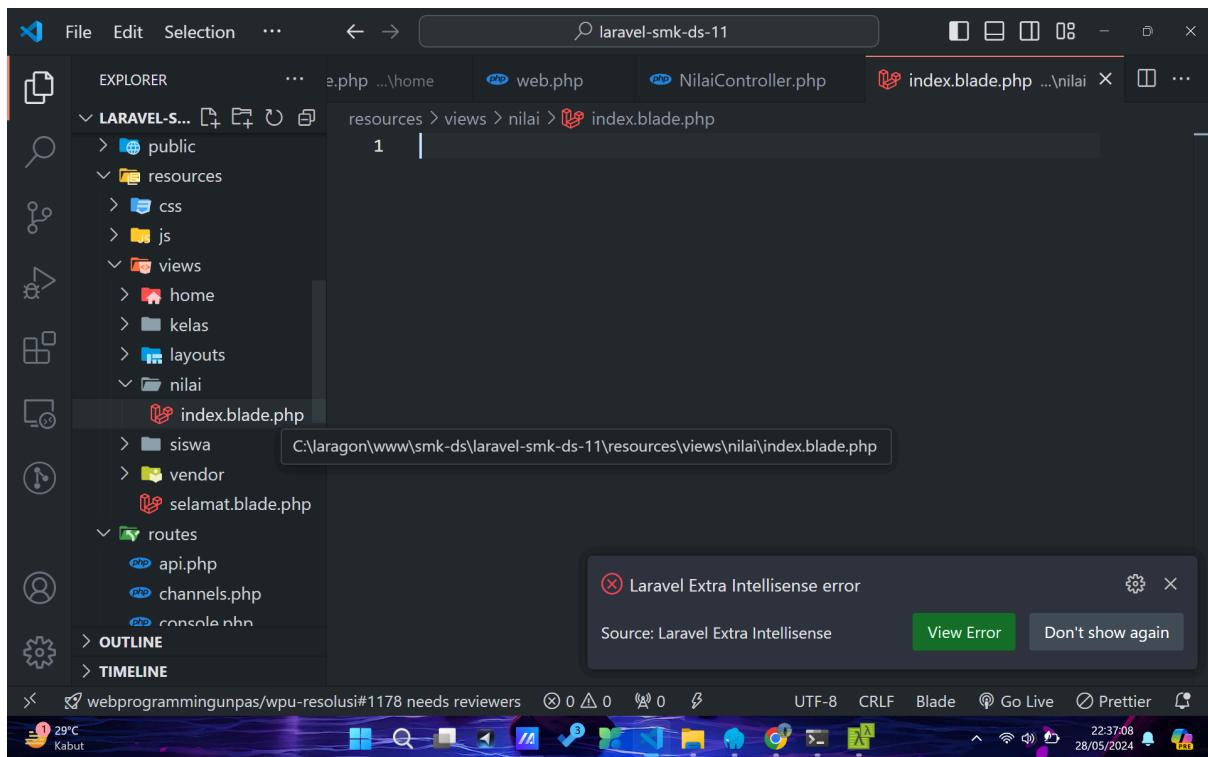
buat fungsi index di NilaiController

The screenshot shows the VS Code interface with the project 'LARAVEL-SMK-DS-11' open. The 'NilaiController.php' file is selected in the center editor pane. The code defines a new 'index' method in the 'NilaiController' class:

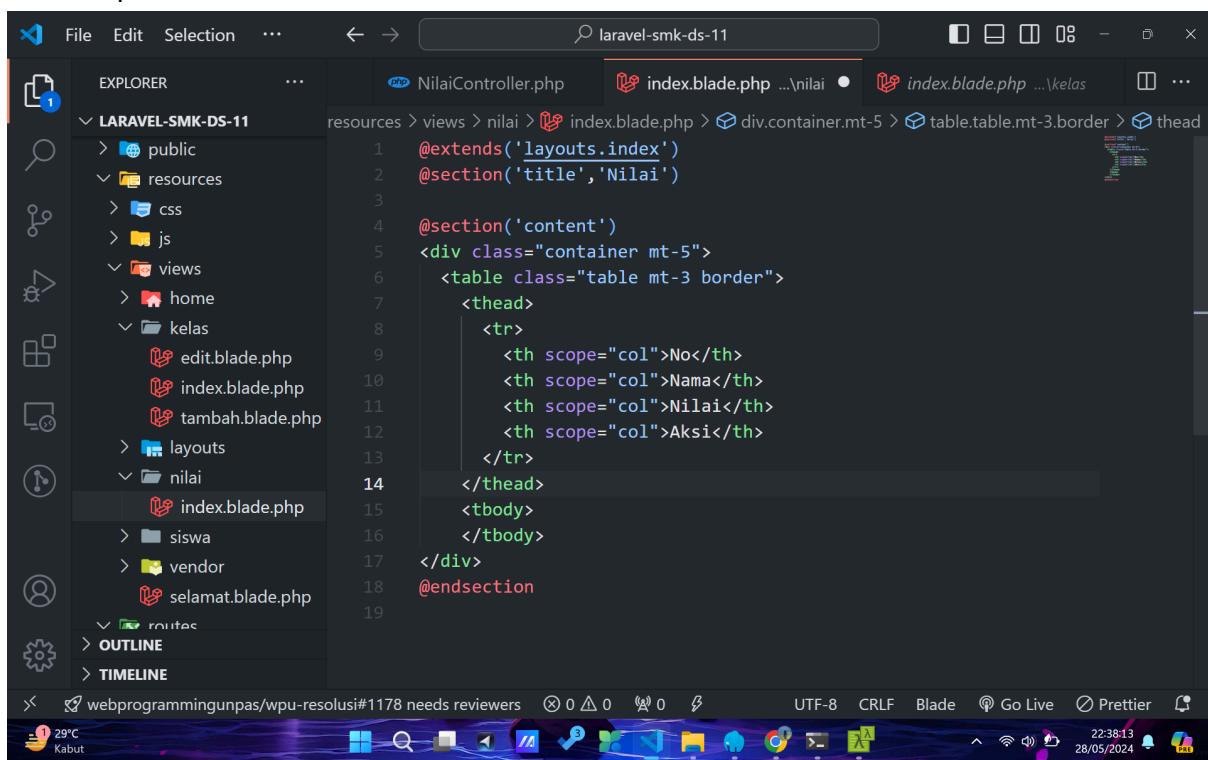
```
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class NilaiController extends Controller
8 {
9     public function index(){
10         return view('nilai.index');
11     }
12 }
```

A status bar at the bottom indicates the file is 12 lines long and has 28 reviews pending. A notification in the bottom right corner says 'Laravel Extra Intellisense error'.

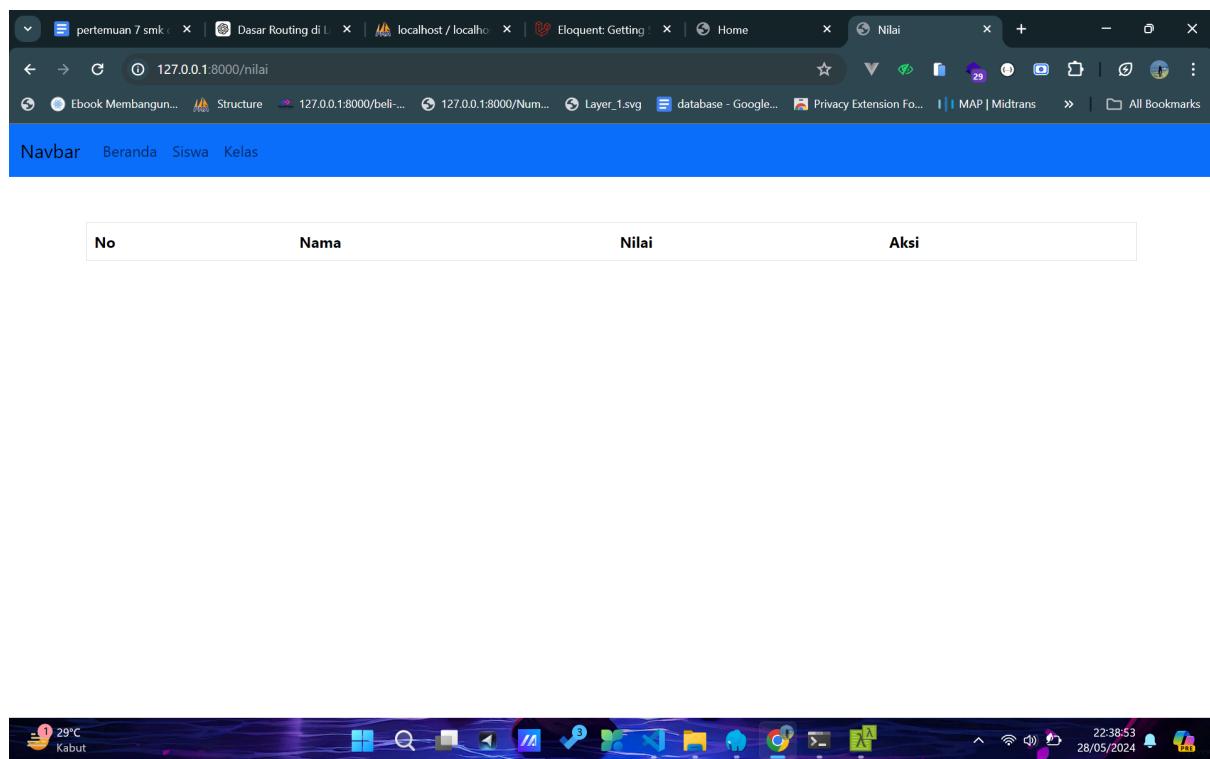
buat folder nilai didalamnya index.blade.php



buat tampilan table untuk halaman nilai



hasil nya akan seperti ini



di folder layouts file index.blade.php tambahkan menu nilai

```
<ul class="navbar-nav">
    <li class="nav-item">
        <a class="nav-link" href="{{ route('home') }}>Beranda</a>
    </li>
    <li class="nav-item">
        <a class="nav-link" href="{{ route('siswa') }}>Siswa</a>
    </li>
    <li class="nav-item">
        <a class="nav-link" href="{{ route('kelas') }}>Kelas</a>
    </li>
    <li class="nav-item">
        <a class="nav-link" href="{{ route('nilai') }}>Nilai</a>
    </li>
</ul>
```

buat fungsi di file NilaiController di method index

Tabel siswa

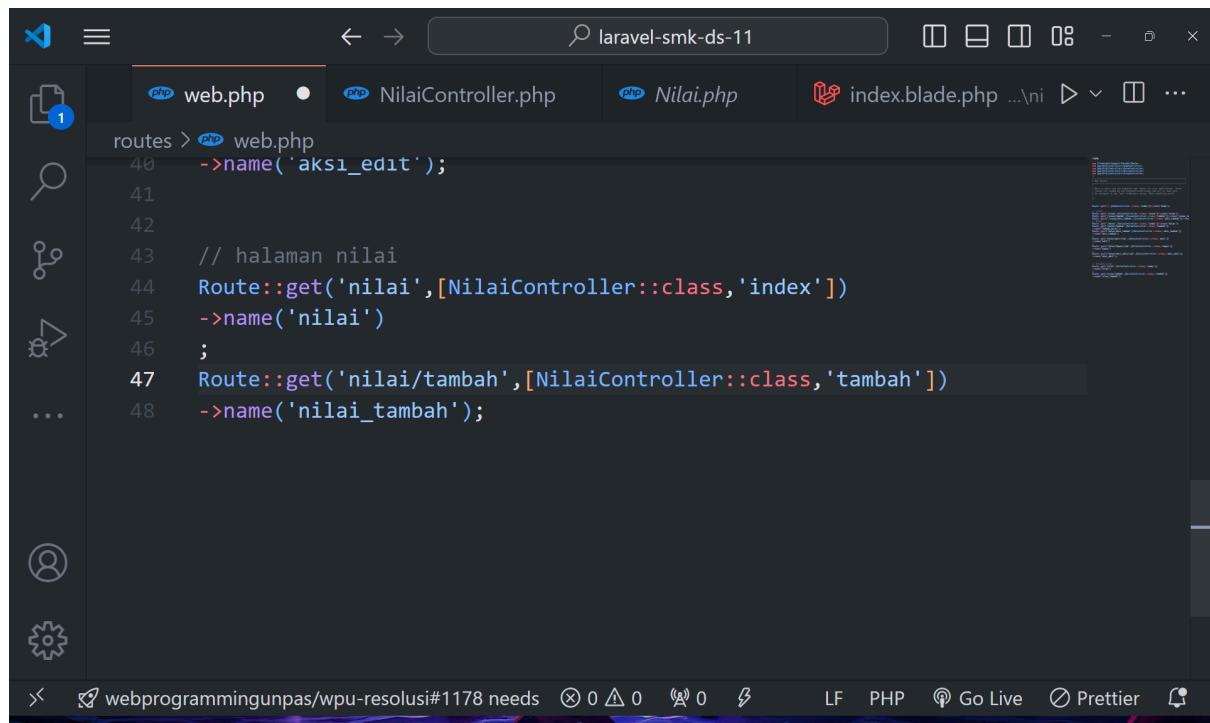
id	nama
1	John
2	Jane

Maka hasil dari query akan menjadi:

id	siswa_id	nilai	nama
1	1	90	John
2	2	85	Jane
3	1	95	John

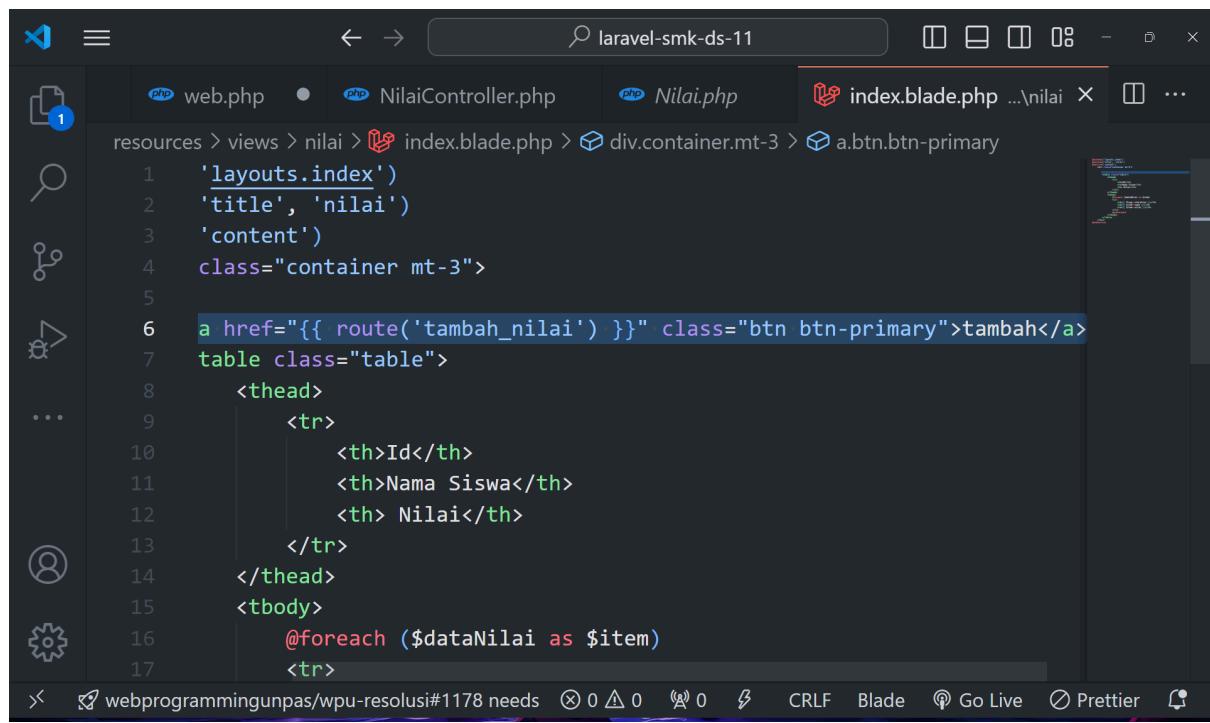
tambah data nilai di laravel

buat route tambah nilai di web.php



```
routes > web.php
40     ->name('aksi_edit');
41
42
43     // halaman nilai
44     Route::get('nilai',[NilaiController::class,'index'])
45         ->name('nilai')
46     ;
47     Route::get('nilai/tambah',[NilaiController::class,'tambah'])
48         ->name('nilai_tambah');
```

tambahkan button tambah di folder nilai di file index.blade.php arahkan ke route **tambah_nilai**



```
resources > views > nilai > index.blade.php > div.container.mt-3 > a.btn.btn-primary
1     'layouts.index')
2     'title', 'nilai')
3     'content')
4     class="container mt-3">
5
6     a href="{{ route('tambah_nilai') }}" class="btn btn-primary">tambah</a>
7     table class="table">
8         <thead>
9             <tr>
10                 <th>Id</th>
11                 <th>Nama Siswa</th>
12                 <th> Nilai</th>
13             </tr>
14         </thead>
15         <tbody>
16             @foreach ($dataNilai as $item)
17                 <tr>
```

buat file tambah.blade.php di folder nilai dan buat form untuk tambah nilai

The screenshot shows a code editor with a dark theme. The top navigation bar includes 'File', 'Edit', 'Selection', and other standard options. The title bar says 'laravel-smk-ds-11'. The left sidebar has icons for file operations like 'routes', 'web.php', 'index.blade.php ...\\nilai', 'tambah.blade.php ...\\nilai', and 'tambah.blade.php ...\\kelas'. The main content area displays the following blade template code:

```
resources > views > nilai > tambah.blade.php > ...
1 @extends('layouts.index');
2 @section('content')
3 <div class="container">
4     <form action="" method="post">
5         <div class="mb-3">
6             <label for="siswa">Siswa</label>
7             <select name="siswa_id">
8                 <option value="">Pilih siswa</option>
9
10            </select>
11        </div>
12        <div class="mb-3">
13            <label class="form-label">Nilai</label>
14            <input type="text" name="nilai" class="form-control" placeholder="Masukan Nilai">
15        </div>
16        <button type="submit" class="btn btn-primary">Tambah</button>
17    </form>
18 </div>
19 @endsection
```

At the bottom, there are status indicators for code review ('needs reviewers'), file statistics ('0 0 0 0'), encoding ('UTF-8'), line endings ('CRLF'), file type ('Blade'), and other developer tools ('Go Live', 'Prettier').

lalu tambahkan **method tambah** di **NilaiController**

The screenshot shows a code editor with a dark theme. The top navigation bar includes 'File', 'Edit', 'Selection', and other standard options. The title bar says 'laravel-smk-ds-11'. The left sidebar has icons for file operations like '...\\layouts', 'web.php', 'index.blade.php ...\\nilai', 'tambah.blade.php', and 'NilaiController.php'. The main content area displays the following PHP code for the 'NilaiController' class:

```
app > Http > Controllers > NilaiController.php > NilaiController > tambah
1 namespace App\Http\Controllers;
2
3 use App\Models\Nilai;
4 use Illuminate\Http\Request;
5
6 class NilaiController extends Controller
7 {
8     public function index(){
9         //SELECT * from nilai inner join siswa on nilai.siswa_id=siswa.id
10        $dataNilai= Nilai::join('siswa','nilai.siswa_id','=','siswa.id')->get();
11        return view('nilai.index',[
12            'dataNilai'=>$dataNilai
13        ]);
14    }
15
16    public function tambah(){
17        return view('nilai.tambah');
18    }
19
20 }
```

At the bottom, there are status indicators for code review ('needs reviewers'), file statistics ('0 0 0 0'), encoding ('Spaces: 2'), line endings ('LF'), file type ('PHP'), and other developer tools ('Go Live', 'Prettier').

tampilkan data siswa di form tambah data siswa

ubah **method tambah** menjadi seperti ini.untuk mengambil data disiswa dari table siswa.

A screenshot of a code editor showing a Laravel controller file, `NilaiController.php`. The code defines two methods: `index()` and `tambah()`. The `index()` method performs a database query to join the `nilai` and `siswa` tables and returns a view. The `tambah()` method returns a view for adding a new record, passing an array of `Siswa` objects to the view.

```
use Illuminate\Http\Request;
class NilaiController extends Controller
{
    public function index(){
        //SELECT * from nilai inner join siswa on nilai.siswa_id=siswa.id
        $dataNilai= Nilai::join('siswa','nilai.siswa_id','=','siswa.id')->get();
        return view('nilai.index',[ 'dataNilai'=>$dataNilai]);
    }
    public function tambah(){
        $dataSiswa=Siswa::get();
        return view('nilai.tambah',[ 'dataSiswa'=>$dataSiswa]);
    }
}
```

lalu tampilkan data siswa di select option siswa di folder **nilai** di file *tambah.blade.php*

A screenshot of a code editor showing the `tambah.blade.php` file. It extends the `layouts.index` layout and defines a form for adding a new record. Inside the form, there is a dropdown menu (`<select>`) for selecting a student. The options in the dropdown are populated from the `$dataSiswa` array, which contains student records with their names and IDs.

```
@extends('layouts.index')
@section('content')
<div class="container mt-3">
    <form action="{{ route('aksi_tambah_nilai') }}" method="post">
        @csrf
        <div class="mb-3">
            <label for="siswa">Siswa</label>
            <select name="siswa_id" class="form-control">
                <option value="">Pilih siswa</option>
                @foreach ($dataSiswa as $item)
                    <option value="{{ $item->id }}>{{ $item->nama }}</option>
                @endforeach
            </select>
        </div>
        <div class="mb-3">
            <label class="form-label">Nilai</label>
            <input type="text" name="nilai" class="form-control" placeholder="Masukan Nilai">
        </div>
        <button type="submit" class="btn btn-primary">Tambah</button>
    </form>
</div>
```

hasilnya akan jadi seperti ini

Siswa

Pilih siswa

Pilih siswa

radit

radit

Masukan nilai

Tambah

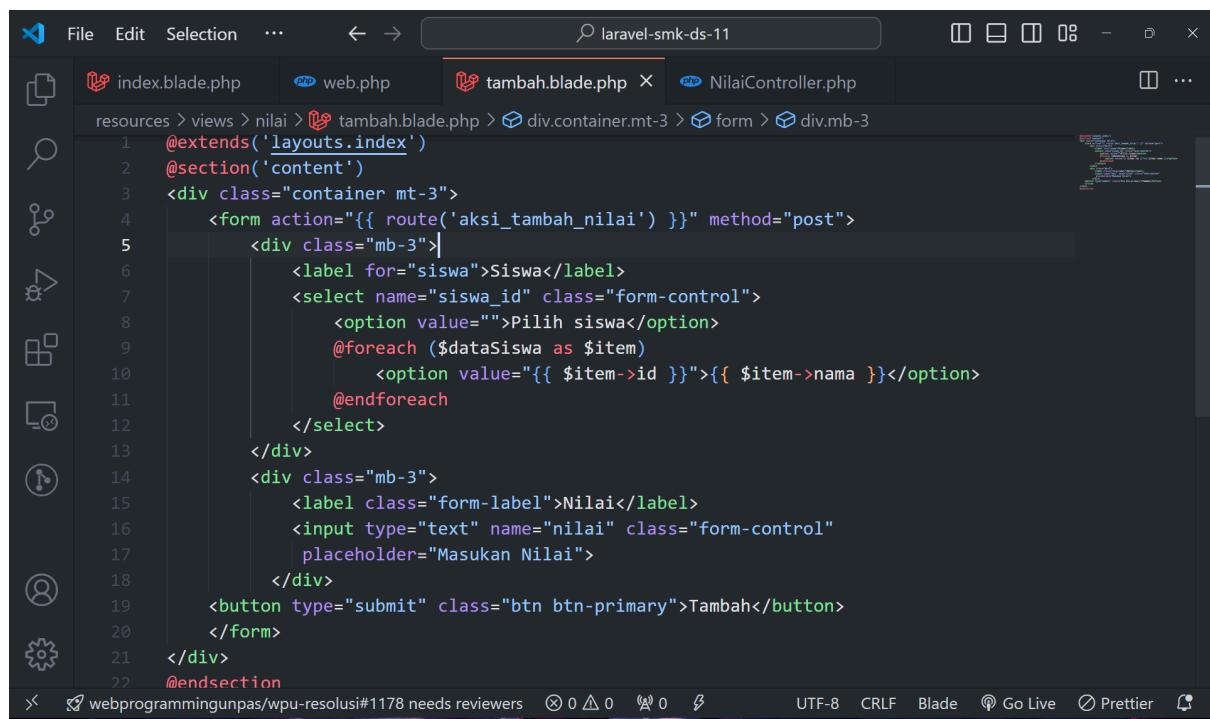
selanjutnya buat route untuk fungsi tambah siswa nya

```

File Edit Selection ... ← → ⌂ laravel-smk-ds-11
index.blade.php web.php ✘ tambah.blade.php NilaiController.php ⌄ ⌄ ⌄ ⌄ ...
routes > web.php
40 ->name('aksi_edit');
41
42
43 // halaman nilai
44 Route::get('nilai',[NilaiController::class,'index'])
45 ->name('nilai')
46 ;
47 Route::get('nilai/tambah',[NilaiController::class,'tambah'])
48 ->name('nilai_tambah');
49 Route::post('nilai/aksi_tambah',[NilaiController::class,'aksi_tambah'])
50 ->name('aksi_tambah_nilai');

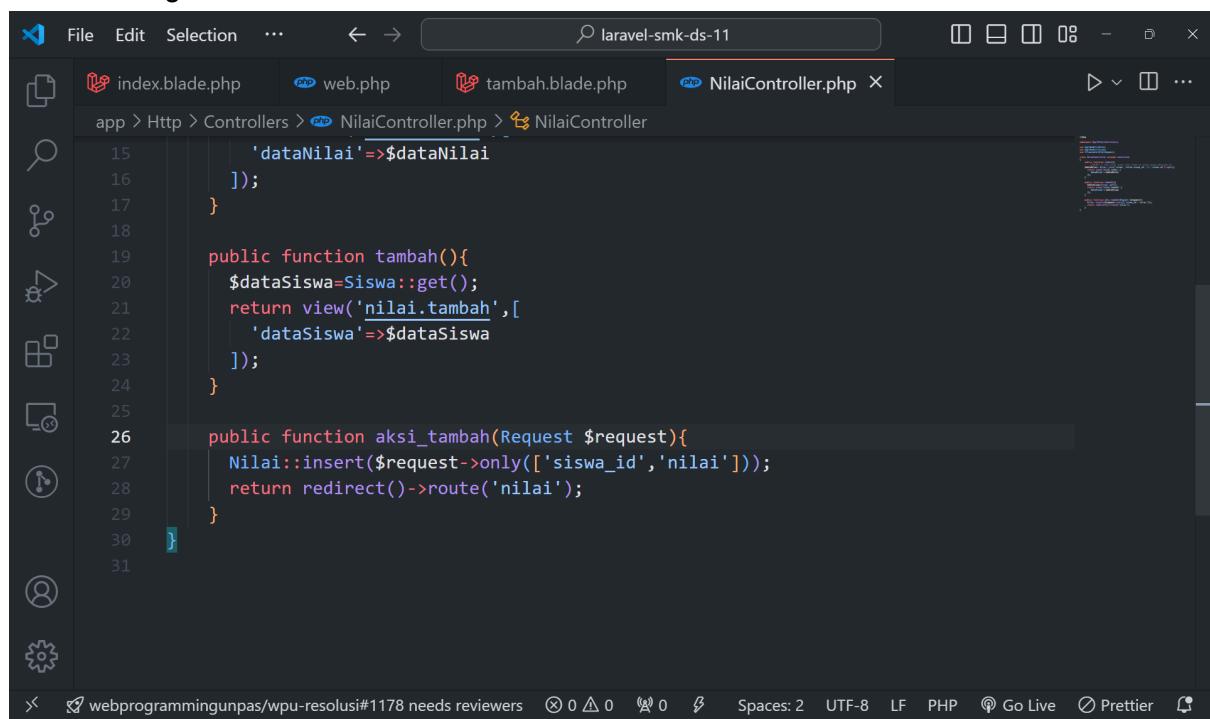
```

lalu arahkan action di form tambah nilai jadi seperti ini



```
resources > views > nilai > tambah.blade.php > div.container.mt-3 > form > div.mb-3
1 @extends('layouts.index')
2 @section('content')
3 <div class="container mt-3">
4     <form action="{{ route('aksi_tambah_nilai') }}" method="post">
5         <div class="mb-3">
6             <label for="siswa">Siswa</label>
7             <select name="siswa_id" class="form-control">
8                 <option value="">Pilih siswa</option>
9                 @foreach ($dataSiswa as $item)
10                     <option value="{{ $item->id }}>{{ $item->nama }}</option>
11                 @endforeach
12             </select>
13         </div>
14         <div class="mb-3">
15             <label class="form-label">Nilai</label>
16             <input type="text" name="nilai" class="form-control" placeholder="Masukan Nilai">
17         </div>
18         <button type="submit" class="btn btn-primary">Tambah</button>
19     </form>
20 </div>
21 @endsection
```

lalu buat fungsi untuk tambah data ke table nilai



```
app > Http > Controllers > NilaiController.php > NilaiController
15     'dataNilai'=>$dataNilai
16 ];
17 }
18
19 public function tambah(){
20     $dataSiswa=Siswa::get();
21     return view('nilai.tambah',[
22         'dataSiswa'=>$dataSiswa
23     ]);
24 }
25
26 public function aksi_tambah(Request $request){
27     Nilai::insert($request->only(['siswa_id','nilai']));
28     return redirect()->route('nilai');
29 }
30
31 }
```