



CRUD LARAVEL

Playlist Materi : https://youtube.com/playlist?list=PL3AIRQS3myxWY7gwobc8BxvBI6hl8_-gT

"Create, Read, Update, Delete"

PENGANTAR

CRUD merupakan operasi standar yang biasanya dilakukan pada program yang melibatkan database

Sebagian besar program melibatkan database, sehingga konsep CRUD ini penting dipahami oleh programmer

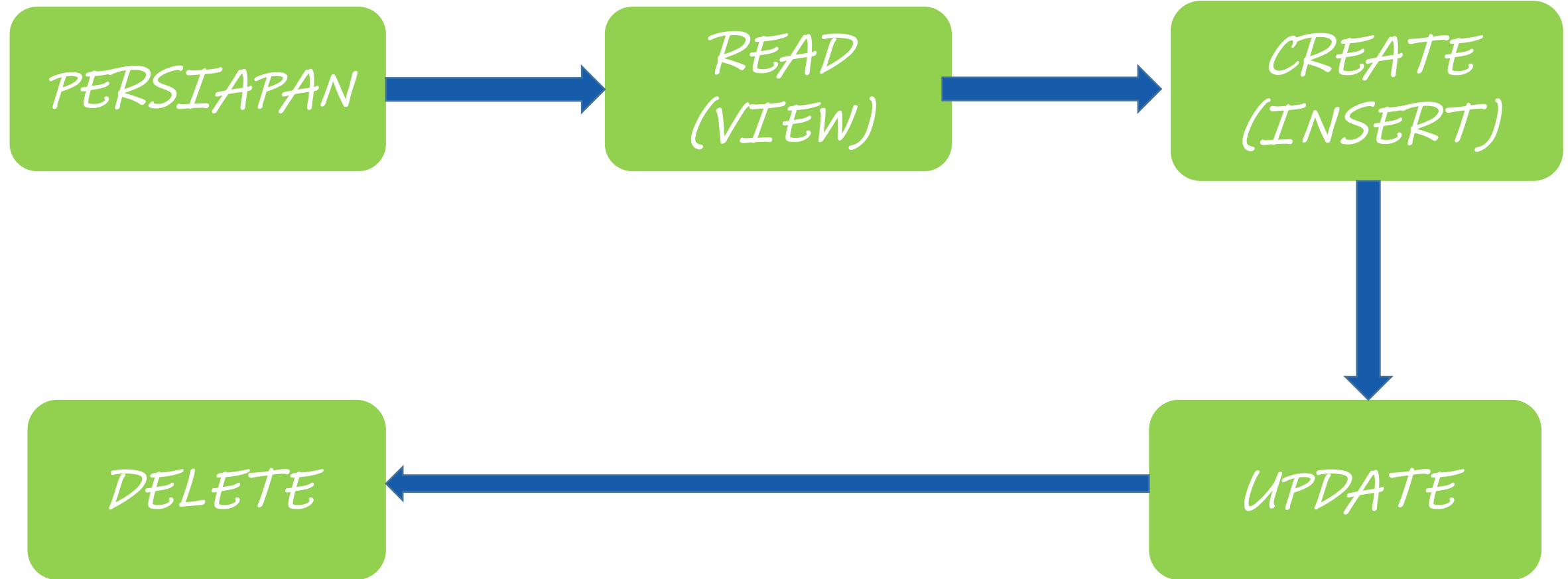
Create : Menambah record/baris ke tabel

Read : Menampilkan seluruh record

Update : Edit salah satu record

Delete : Hapus salah satu record

Demo APlikasi



PERSIAPAN

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Buat Database dengan nama : siaka

Import file .sql (link download ada di deskripsi)

Columns: + Add ✕ Remove ▲ Up ▼ Down			
#	Name	Datatype	Length/Set
1	nim	CHAR	50
2	nama	VARCHAR	50
3	alamat	VARCHAR	50
4	kodejurusan	CHAR	2
5	created_at	TIMESTAMP	
6	updated_at	TIMESTAMP	

nim	nama	alamat	kodejurusan	created_at	updated_at
222010	Yono	daya	TI	2022-11-27 00:42:44	2022-11-27 00:42:44
222009	Handayani	perintis	SI	2022-11-27 00:42:44	2022-11-27 00:42:44
222008	Risma	daya	TI	2022-11-27 00:42:44	2022-11-27 00:42:44
222007	Nita	perintis	SI	2022-11-27 00:42:44	2022-11-27 00:42:44
222006	Yusuf	daya	TI	2022-11-27 00:42:44	2022-11-27 00:42:44
222005	Asri	perintis	SI	2022-11-27 00:42:44	2022-11-27 00:42:44
222004	Rere	daya	TI	2022-11-27 00:42:44	2022-11-27 00:42:44
222003	Budi	perintis	SI	2022-11-27 00:42:44	2022-11-27 00:42:44
222002	Inda	daya	TI	2022-11-27 00:42:44	2022-11-27 00:42:44
222001	Adi	perintis	SI	2022-11-27 00:42:44	2022-11-27 00:42:44

Buat projek baru dengan nama siaka

Buat Controller dengan nama MahasiswaController

```
php artisan make:controller MahasiswaController
```

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Buat Model dengan nama Mahasiswa

```
php artisan make:model Mahasiswa
```

Set property \$primaryKey di model menjadi nim

Set property pada model mahasiswa \$primaryKey='nim'

```
class Mahasiswa extends Model
{
    use HasFactory;
    protected $table='mahasiswa';
    protected $primaryKey='nim';
}
```

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Setting file .env

```
.....  
DB_CONNECTION=mysql  
DB_HOST=127.0.0.1  
DB_PORT=3306  
DB_DATABASE=siaka  
DB_USERNAME=root  
DB_PASSWORD=  
.....
```

Cek koneksi via artisan tinker

```
php artisan tinker  
DB::connection()->getPdo();
```


Read / View

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Mapping

METHOD	URL		CONTROLLER		VIEW
	ROOT APLIKASI	LINK	CONTROLLER	METHOD	
get	Localhost/latihan/public/	mahasiswa	MahasiswaController	view	view_viewmahasiswa

Buat router

```
Route::get('/mahasiswa',[App\Http\Controllers\MahasiswaController::class,'view'])
```

Buat method view di controller

```
public function view()
{
    $mahasiswas=Mahasiswa::all();
    return view('view_viewmahasiswa', compact('mahasiswas'));
}
```

READ

CREATE

UPDATE

DELETE

DELETE

View Mahasiswa | Input

Nim	Nama	Alamat	Kode Jurusan	Aksi
1	a	b	c	Edit Hapus
222001	Adi	perintis	SI	Edit Hapus
222002	Inda	daya	TI	Edit Hapus
222003	Budi	perintis	SI	Edit Hapus
222004	Rere	daya	TI	Edit Hapus
222005	Asri	perintis	SI	Edit Hapus
222006	Yusuf	daya	TI	Edit Hapus
222007	Nita	perintis	SI	Edit Hapus
222008	Risma	daya	TI	Edit Hapus
222009	Handayani	perintis	SI	Edit Hapus
222010	Yono	daya	TI	Edit Hapus

Create/Insert

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Mapping

METHOD	URL		CONTROLLER		VIEW
	ROOT APLIKASI	LINK	CONTROLLER	METHOD	
get	Localhost/latihan/public/	mahasiswa/create	MahasiswaController	create	view_inputmahasiswa

Buat router

```
Route::get('/mahasiswa/create',[App\Http\Controllers\MahasiswaController::class,'create']);
```

Buat method view di controller

```
public function create()
{
    return view('view_inputmahasiswa');
}
```

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Buat view (resource/views/view_inputmahasiswa.php)

```
<html>
<body>
<h2>Input Mahasiswa</h2>
<form method="post" action="{{url('mahasiswa/create')}}">
@csrf
<input type="text" name="nim" placeholder="Nim"><br><br>
<input type="text" name="nama" placeholder="Nama"><br><br>
<input type="text" name="alamat" placeholder="Alamat"><br><br>
<input type="text" name="kodejurusan" placeholder="Kode Jurusan"><br><br>
<input type="submit" value="proses">
</form>
<body>
```

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Mapping

METHOD	URL		CONTROLLER		VIEW
	ROOT APLIKASI	LINK	CONTROLLER	METHOD	
post	Localhost/latihan/public/	mahasiswa/create	MahasiswaController	store	-

Buat router

```
Route::post('/mahasiswa/create',[App\Http\Controllers\MahasiswaController::class,'store']);
```

Buat method store di controller

```
public function store(Request $request)
{
    $mahasiswa=new Mahasiswa();
    $mahasiswa->nim=$request->nim;
    $mahasiswa->nama=$request->nama;
    $mahasiswa->alamat=$request->alamat;
    $mahasiswa->kodejurusan=$request->kodejurusan;
    $mahasiswa->save();
    return redirect('mahasiswa');
}
```

Update / Edit

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Mapping

METHOD	URL		CONTROLLER		VIEW
	ROOT APLIKASI	LINK	CONTROLLER	METHOD	
get	Localhost/latihan/public/	mahasiswa/{nim}/edit	MahasiswaController	edit	view_editmahasiswa

Buat router

```
Route::get('/ mahasiswa/{nim}/edit',[App\Http\Controllers\MahasiswaController::class,'edit']);
```

Buat method create di controller

```
public function edit(Request $request)
{
    $mahasiswa=Mahasiswa::find($request->nim);
    return view('view_editmahasiswa',compact('mahasiswa'));
}
```

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Buat view (resource/views/view_viewmahasiswa.php)

```
<html>
<body>
  <h2>Edit Mahasiswa</h2>
  <form method="post" action="{{url('mahasiswa/edit')}}">
    @csrf
    <input type="text" name="nim" value="{{ $mahasiswa->nim }}"><br><br>
    <input type="text" name="nama" value="{{ $mahasiswa->nama }}"><br><br>
    <input type="text" name="alamat" value="{{ $mahasiswa->alamat }}"><br><br>
    <input type="text" name="kodejurusan" value="{{ $mahasiswa->kodejurusan }}"><br><br>
    <input type="submit" value="proses">
  </form>
</body>
</html>
```

View Mahasiswa | Input

Nim	Nama	Alamat	Kode Jurusan	Aksi
1	a	b	c	Edit Hapus
222001	Adi	perintis	SI	Edit Hapus
222002	Inda	daya	TI	Edit Hapus
222003	Budi	perintis	SI	Edit Hapus
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222006	Yusuf	daya	TI	Edit Hapus
222007	Nita	perintis	SI	Edit Hapus
222008	Risma	daya	TI	Edit Hapus
222009	Handayani	perintis	SI	Edit Hapus
222010	Yono	daya	TI	Edit Hapus

localhost/latihan/public/c

Edit Mahasiswa

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Mapping

METHOD	URL		CONTROLLER		VIEW
	ROOT APLIKASI	LINK	CONTROLLER	METHOD	
post	Localhost/latihan/public/	mahasiswa/edit	MahasiswaController	update	-

Buat router

```
Route::post('/mahasiswa/edit', [App\Http\Controllers\MahasiswaController::class, 'update']);
```

Buat method store di controller

```
public function update(Request $request)
{
    $mahasiswa=Mahasiswa::find($request->nim);
    $mahasiswa->nama=$request->nama;
    $mahasiswa->alamat=$request->alamat;
    $mahasiswa->kodejurusan=$request->kodejurusan;
    $mahasiswa->save();
    return redirect('mahasiswa');
}
```



Delete

PERSIAPAN

READ

CREATE

UPDATE

DELETE

Mapping

METHOD	URL		CONTROLLER		VIEW
	ROOT APLIKASI	LINK	CONTROLLER	METHOD	
get	Localhost/latihan/public/	mahasiswa/{nim}/delete	MahasiswaController	destroy	-

Buat router

```
Route::get('/mahasiswa/{nim}/delete', [App\Http\Controllers\MahasiswaController::class, 'destroy']);
```

Buat method store di controller

```
public function destroy($nim)
{
    $mahasiswa=Mahasiswa::find($nim);
    $mahasiswa->delete();
    return redirect('demo');
}
```

Mapping Eloquent ke Query SQL

ELOQUENT	SQL
<pre>\$mahasiswa=new Mahasiswa(); \$mahasiswa->nim=\$request->nim; \$mahasiswa->nama=\$request->nama; \$mahasiswa->alamat=\$request->alamat; \$mahasiswa->kodejurusan=\$request->kodejurusan; \$mahasiswa->save();</pre>	Insert into mahasiswa ('nim','nama','alamat','kodejurusan') values ('\$request->nim','\$request->nama','\$request->alamat','\$request->kodejurusan')
<pre>Mahasiswa::all();</pre>	Select * from mahasiswa
<pre>Mahasiswa::find(\$request->nim);</pre>	Select * from mahasiswa where nim='\$request->nim'
<pre>\$mahasiswa=Mahasiswa::find(\$request->nim); \$mahasiswa->nama=\$request->nama; \$mahasiswa->alamat=\$request->alamat; \$mahasiswa->kodejurusan=\$request->kodejurusan; \$mahasiswa->save();</pre>	Update mahasiswa set nama='\$request->nama', alamat='\$request->alamat', kodejurusan='\$request->kodejurusan' where nim='\$request->nim'
<pre>\$mahasiswa=Mahasiswa::find(\$nim); \$mahasiswa->delete();</pre>	Delete from mahasiswa where nim='123456'

???

Bagaimana dengan VALIDASI

Bagaimana dengan INFORMASI SUKSES INPUT

DLL....

NEXT.....“.....”

SAMPAI JUMPA DI VIDEO BERIKUTNYA