

1: CRUD Operations Using Eloquent in Laravel

In this task, you will implement basic CRUD (Create, Read, Update, Delete) operations using Eloquent ORM in Laravel. Eloquent is Laravel's default ORM (Object-Relational Mapping) tool, which allows for easy interaction with your database using PHP syntax instead of raw SQL queries.

- ✓ — `composer create-project --prefer-dist laravel/laravel crud-laravel`
- ✓ — Create Database - `DB_DATABASE=crud`
- ✓ — Create Model, Migration, Controller and Resource Route
`php artisan make:model Crud -mcr`
- ✓ — Define Database Schema
`php artisan migrate`
- ✓ — Define Routes for CRUD Operations
`Route::resource('crud', CrudController::class);`

Or

```
Route::get('/crud', [CrudController::class, 'index'])->name('crud.index');
Route::get('/crud/create', [CrudController::class, 'create'])->name('crud.create');
Route::post('/crud', [CrudController::class, 'store'])->name('crud.store');
Route::get('/crud/{id}/edit', [CrudController::class, 'edit'])->name('crud.edit');
Route::put('/crud/{id}', [CrudController::class, 'update'])->name('crud.update');
Route::delete('/crud/{id}', [CrudController::class, 'destroy'])->name('crud.destroy');
```
- ✓ — Create View for CRUD Operations
- — Hints to remember
 - Return views in **index()**, **create()**, and **edit()**
 - Use **redirect()** in **store()**, **update()**, and **destroy()** to redirect after successful actions.
 - Use a **foreach loop** to display a list of students in **crud/index.blade.php**.
 - Always use the correct HTTP method for form actions: **POST for creating**, **@method('PUT') for updating**, and **@method('DELETE') for deleting**, as HTML **forms only support GET and POST**.
 - Use **@csrf** in the form to prevent CSRF attacks

```
Schema::create('cruds', function (Blueprint $table) {
    $table->id();
    $table->string('name', 100);
    $table->string('phone', 100);
    $table->string('location', 100);
    $table->string('email', 255)->default('default@example.com');
    $table->timestamps();
});
```

```

└─ crud
    ├── create.blade.php
    ├── edit.blade.php
    └── index.blade.php
```

