

# CRUD BASIC IN LARAVEL

## STEP1: INSTALL PROJECT

```
composer create-project laravel/laravel your_project --prefer-dist
```

## STEP2: CREATE DATABASE & CONFIGURED

Go to [phpMyAdmin](#) create new database name and config it in `.env` file

```
DB_DATABASE=example_db
DB_USERNAME=root
DB_PASSWORD=123
```

## STEP3: CREATE TABLE , MODEL AND CONTROLLER

1. Create table migration and model

```
php artisan make:model Example -m
```

2. Create Controller

```
php artisan make:controller ExampleController --api
```

## STEP4: ADD NEW COLUMN TO TABALE

```
/**
 * Run the migrations.
 *
 * @return void
 */
public function up()
{
    Schema::create('examples', function (Blueprint $table) {
        $table->id();
        $table->string('title');
        $table->text('description');
        $table->timestamps();
    });
}
```

## STEP5: MODELS

```
<?php

namespace App\Models;
```

```
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Example extends Model
{
    use HasFactory;

    protected $fillable = [
        'title',
        'description'
    ];

    protected $hidden = [
        'created_at',
        'updated_at'
    ];
}
```

## STEP5: CONTROLLERS

### 1. Import the model to controller

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Models\Example;

class BookController extends Controller
{
```

### 2. index function

```
/**
 * Display a listing of the resource.
 *
 * @return \Illuminate\Http\Response
 */
public function index()
{
    return Example::latest()->get();
}
```

### 3. store function

```
/**
 * Store a newly created resource in storage.
 *
 * @param \Illuminate\Http\Request $request
 * @return \Illuminate\Http\Response
 */
public function store(Request $request)
{
    $example = new Example();
    $example->title = $request->title;
    $example->description = $request->description;
    $example->save();

    return response()->json(['message' => 'example created successfully'],
201);
}
```

#### 4. show function

```
/**
 * Display the specified resource.
 *
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function show($id)
{
    return Example::findOrFail($id);
}
```

#### 5. update function

```
/**
 * Update the specified resource in storage.
 *
 * @param \Illuminate\Http\Request $request
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function update(Request $request, $id)
{
    $example = Example::findOrFail($id);
    $example->title = $request->title;
    $example->description = $request->description;
    $example->save();

    return response()->json(['message' => 'example updated successfully'],
```

```
200);  
}
```

## 6. destroy function

```
/**  
 * Remove the specified resource from storage.  
 *  
 * @param int $id  
 * @return \Illuminate\Http\Response  
 */  
public function deleteBook($id)  
{  
    return Book::destroy($id);  
}
```

## STEP6: ROUTE

```
<?php  
  
use Illuminate\Http\Request;  
use Illuminate\Support\Facades\Route;  
  
use App\Http\Controllers\BookController;  
use App\Http\Controllers\CountryController;  
  
Route::get('examples', [BookController::class, 'index']);  
Route::get('examples/{id}', [BookController::class, 'show']);  
  
Route::post('examples', [BookController::class, 'store']);  
Route::put('examples/{id}', [BookController::class, 'update']);  
Route::delete('examples/{id}', [BookController::class, 'destroy']);
```

## STEP7: MIGRATION

To migrate your table to database you need to run the following command:

```
php artisan migrate
```