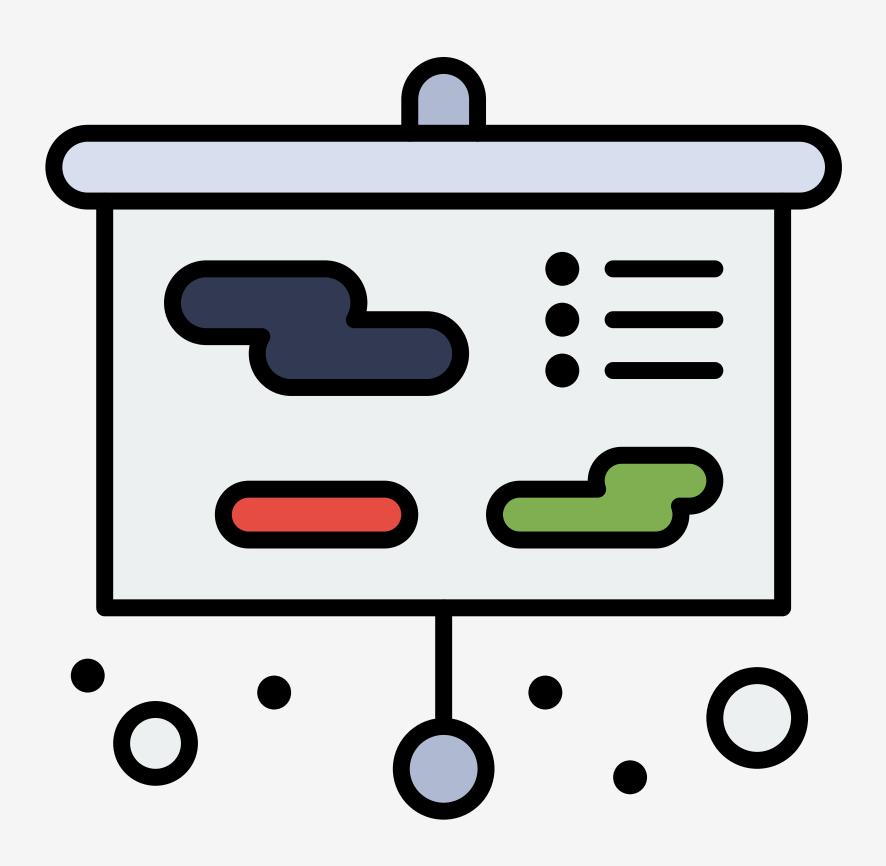
SERVER-SIDE WEB DEVELOPMENT

Lecture 8

TODAY'S TOPICS

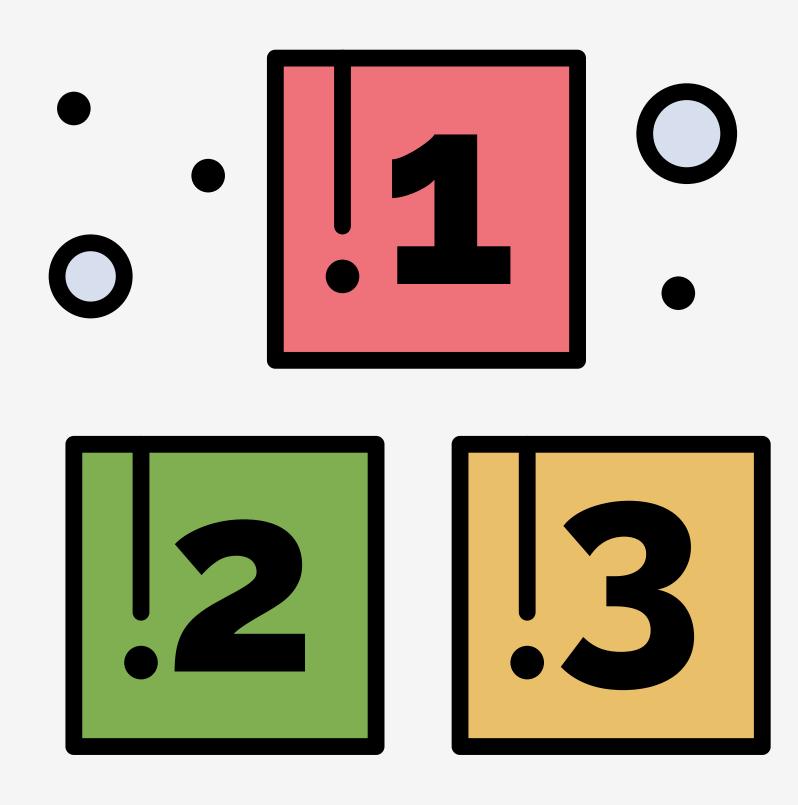


- Databases in Laravel
- Laravel Models
- Laravel Controllers
- Laravel Eloquent

QUESTIONS

DATABASE IN LARAVEL

DATABASES IN LARAVEL



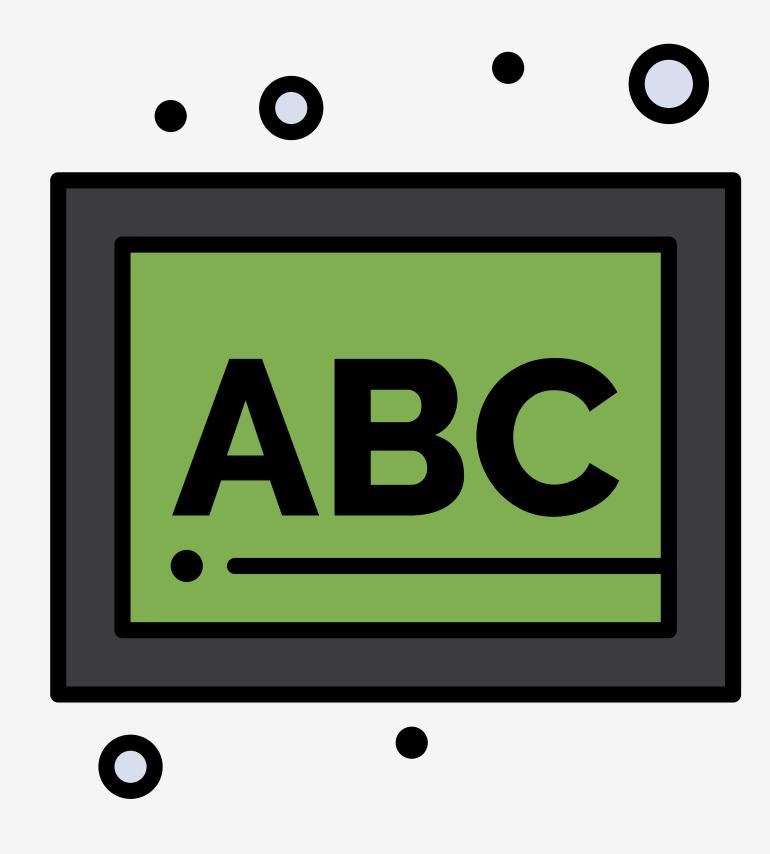
- Laravel has greatly simplified the process of working with databases
- Laravel provides databases connections out of the box
- Configure database setting in the env file

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=laravel
DB_USERNAME=root
DB_PASSWORD=

.ENV

LARAVEL MODELS

LARAVEL MODELS



- In MVC, the Model represent the data
- In Laravel, a Model is a class that is used to interact with a database table
- The easiest way to create a Model is to use artisan

Creates a connection to the movies table php artisan make:model Movie

Creates a controller with the Model php artisan make:model Movie -c

ARTISAN

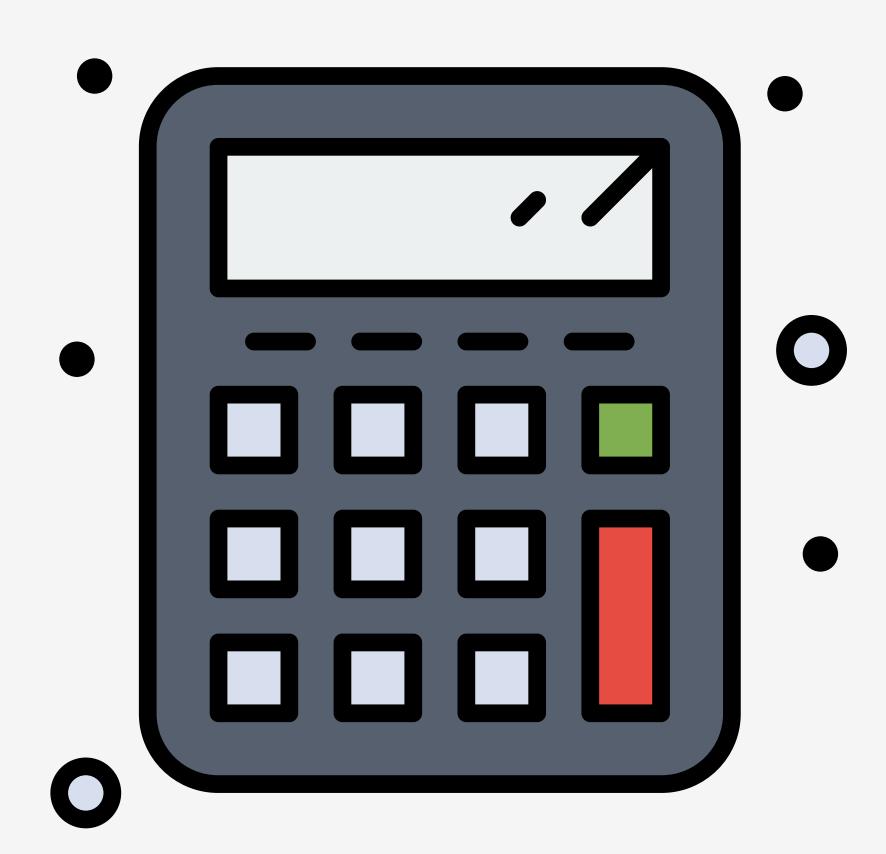
```
<?php
namespace App;
use Illuminate\Database\Eloquent\Model;
class Movie extends Model
```

MODEL

DEMO

LARAVEL CONTROLLERS

LARAVEL CONTROLLERS



- In MVC, the Controller is the logic of the application and act as a bridge between the View and the Model
- In Laravel, a Controller is a class that contains methods that handle a page's logic and return what should be displayed
- Routes can directly point to the a Controller's method

```
<?php
namespace App\Http\Controllers;
use Illuminate\Http\Request;
class MovieController extends Controller
    public function index () {
```

```
CONTROLLER
```

```
// Laravel 7
Route::get('/', 'MovieController@index');

// Laravel 8
use App\Http\Controllers\MovieController;

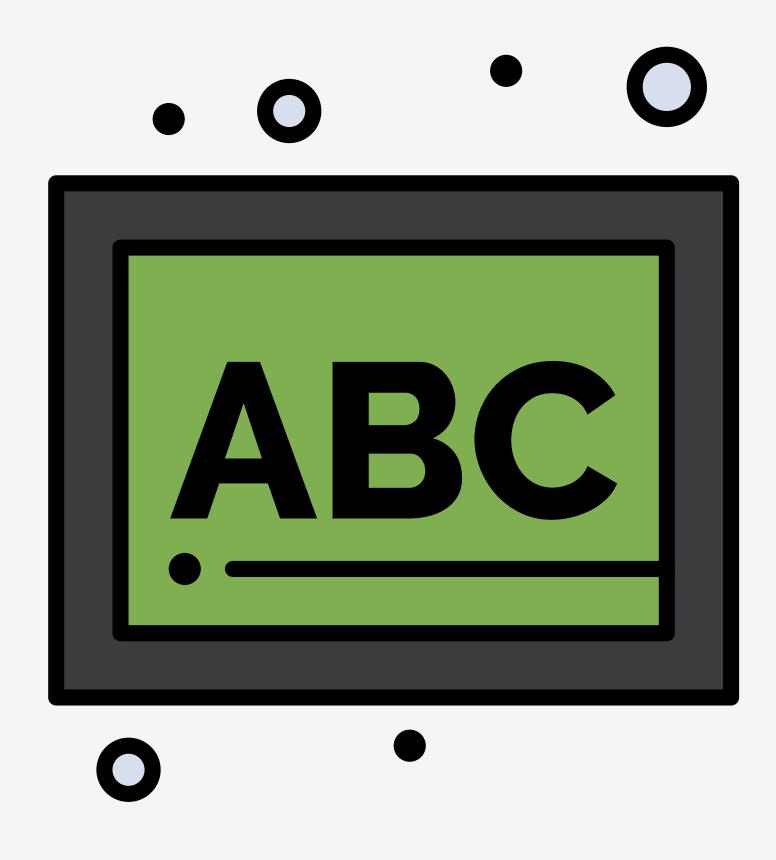
Route::get('/', [MovieController::class, 'index']);
```

ROUTES

DEMO

LARAVEL ELOQUENT

LARAVEL ELOQUENT

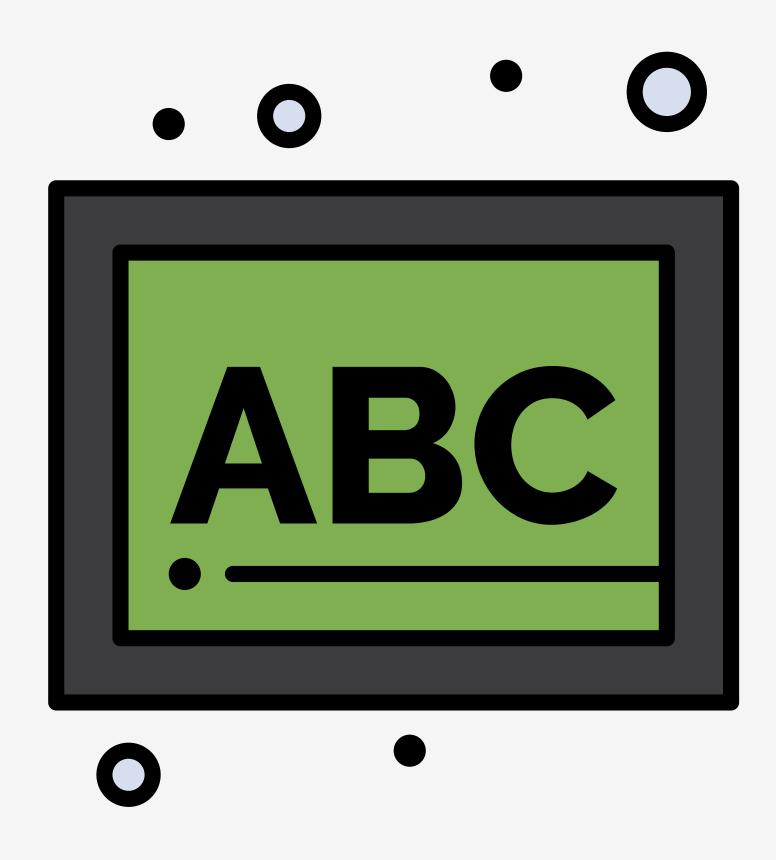


- Eloquent is the interface that is used to hand the interactions and is build on PDO.
- Eloquent has many conventions on how tables and columns should be named
- These conventions can be overridden by changing the values of the specific properties in the Model class

```
<?php
namespace App;
use Illuminate\Database\Eloquent\Model;
class Movie extends Model
    protected $primaryKey = 'movie_id';
```

MODEL

LARAVEL ELOQUENT



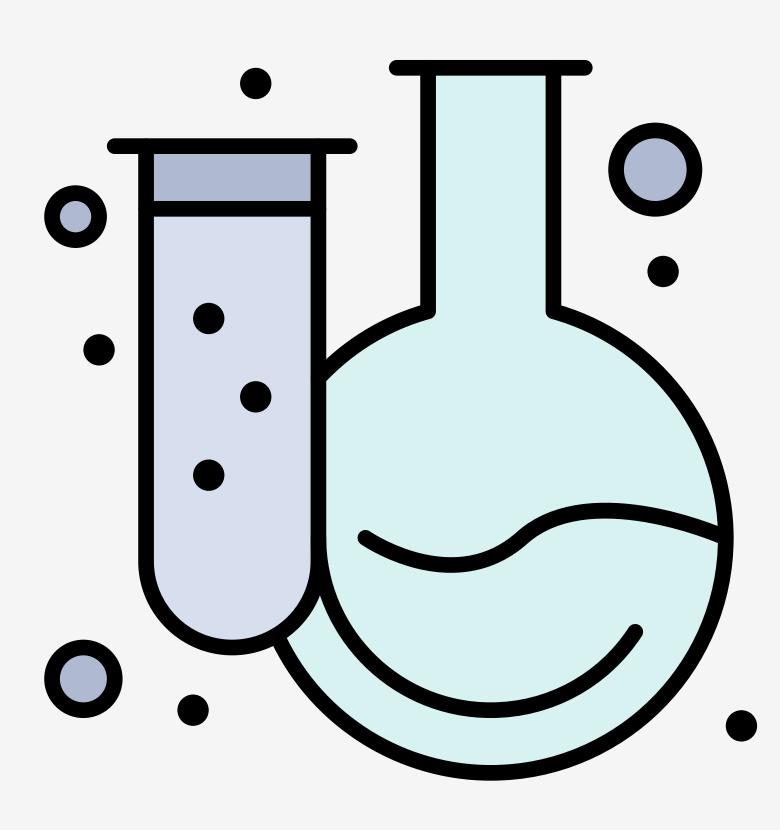
- Eloquent methods are used to retrieve and interact with database tables
- The all method is used to retrieve all rows from a table
- The where method is used to filter the rows
- The get or first method must be used with where

```
// Retrieve all movies
$movies = App\Movie::all();
foreach ($movies as $movie) {
  echo $movie->movie_title;
// Filter movies
$movies = App\Movie::where('genre_id', 2)
    ->get();
foreach ($movies as $movie) {
  echo $movie->movie_title;
```

ELOQUENT

DEMO

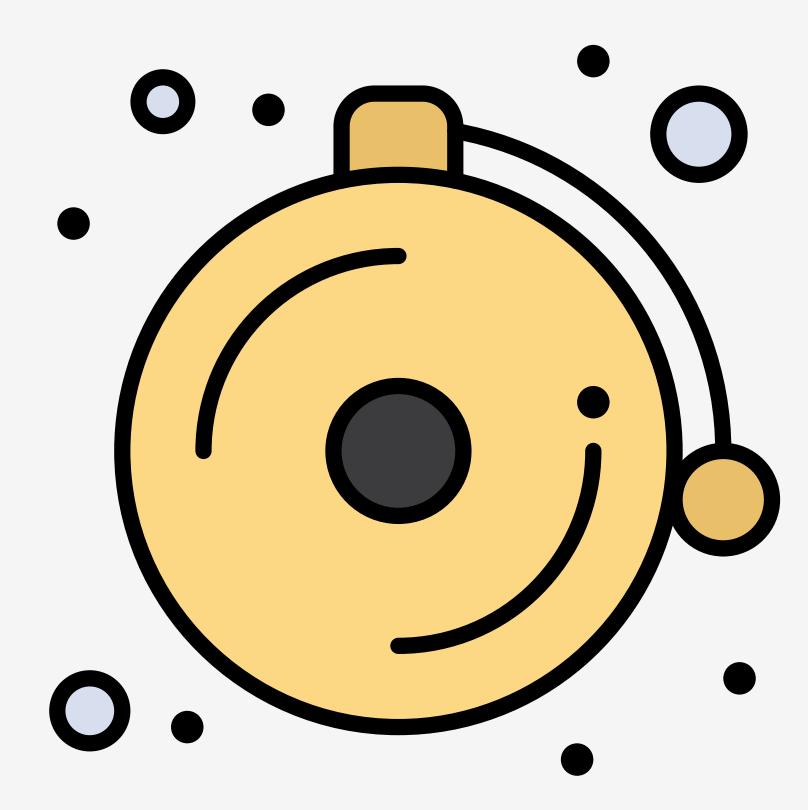
MOVIE MAYHEM SITE



• GITHUB CLASSROOM ASSIGNMENT

- Create a Movie DB site based on the Movie Mayhem Database and the templates provided
- DUE: Thu. Dec. 17 @ 11:59 PM

NEXT TIME...



- Forms in Laravel
- Participation: Grocery List