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From
FORM - TO - TABLE
With

LARAVEL



Level 3

Controllers & Index

Routing Through a Controller to a View

Setting Up Controllers & Routing

What are the steps to setup our Controller, CRUD, & Routing?

- Create a controller for the Market model
- Create restful methods for CRUD
- Connect our routes to our new Controller
- Query our database for all markets
- Pass the query results to a view for display
- Create an index template with blade
- Loop through all markets with blade

How to Create Our Controller

To create our controller, we will use the artisan CLI.

terminal.app

```
~/market $ php artisan help make:controller
```

Usage:

```
make:controller [options] [--] <name>
```

*pass help before the command to
get more information*

Arguments:

name

The name of the class

Options:

`-m, --model[=MODEL]` Generate a resource controller for the given model.

*passing our model name will create controller
specific to the market model!*

Create Our Resource Controller

Create a resource controller by passing the `-m` flag and a model name.

terminal.app

```
~/market $ php artisan make:controller -m Market MarketController
```

Controller created successfully

```
~/market $
```

This is our Model name

The controller must have the same name as the model, followed by the Controller suffix

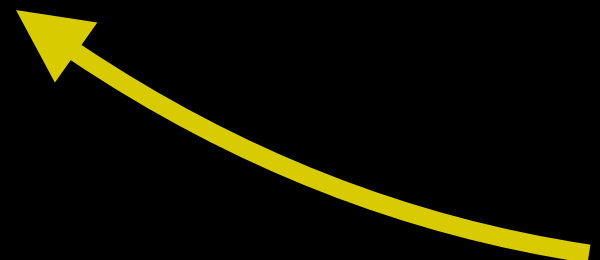
Viewing Our New Resource Controller

Our new controller already has all of our CRUD actions defined for us.

app/Http/Controllers/MarketController.php

```
<?php
namespace App\Http\Controllers;
...
class MarketController extends Controller
{
    public function index()
    ...
    public function show()
    ...
    public function create()
    ...
    public function save()
    ...
    public function destroy()
    ...
}
```

index, show, create, save, &
destroy *methods have all been
created for us automatically*



Routing with Resources

The new controller is a great start. Let's get our routing to connect to the controller.

routes/web.php

```
<?php                                     With the one line, we now have many different routes!  
Route::get('/', 'MarketController@index');  
Route::resource('markets', 'MarketController');
```



Method	URI	Name	Action
GET	markets	markets.index	MarketController@index
GET	markets/create	markets.create	MarketController@create
POST	markets	markets.store	MarketController@store
DELETE	markets/{market}	markets.destroy	MarketController@destroy
PUT / PATCH	markets/{market}	markets.update	MarketController@update
GET	markets/{market}	markets.show	MarketController@show
GET	markets/{market}/edit	markets.edit	MarketController@edit

Viewing Routes in Artisan

We can also use the Artisan CLI to view all routes in our application.

terminal.app

```
~/market $ php artisan route:list
```

+-----+		+-----+		+-----+		+-----+	
	GET HEAD		/		MarketController@index		web
	GET HEAD		markets		MarketController@index		web
	POST		markets		MarketController@store		web
	GET HEAD		markets/create		MarketController@create		web
	GET HEAD		markets/{market}		MarketController@show		web
	PUT PATCH		markets/{market}		MarketController@update		web
	DELETE		markets/{market}		MarketController@destroy		web
	GET HEAD		markets/{market}/edit		MarketController@edit		web

Market Controller Index Method

The index method will be used to display all of our markets, and function as a home page.

app/Http/Controllers/MarketController.php

```
<?php
```

Query all markets and store collection to \$markets

```
...
```

```
class MarketController extends Controller
```

```
{
```

```
    public function index()
```

```
    {
```

```
        $markets = Market::all();
```

```
        return view('markets.index', [ 'markets' => $markets ]);
```

```
    }
```

```
...
```

*send \$markets data into
the template with a key of
'markets'*

use the index template under the views/markets folder

Create an Index View

The index view will be used to display all of our markets in a list.

resources/views/markets/index.blade.php

```
<!DOCTYPE html>
```

```
...
```

```
<ul>
```

```
</ul>
```

```
...
```

```
</html>
```

*Create a new folder called markets and a file named
index.blade.php*

Add basic HTML and a unordered list tag

Add a Loop for All Markets

Using a foreach loop with blade will loop through each market in the `$markets` collection.

resources/views/markets/index.blade.php

```
<!DOCTYPE html>
```

```
...
```

```
<ul>
```

```
    @foreach($markets as $market)
```

```
    @endforeach
```

```
</ul>
```

Using blade we will loop through all the `$markets`. In our loop each market will be stored in `$market`

Create a List Item for Each Market

For each market, create a link that displays the market name using blade syntax.

resources/views/markets/index.blade.php

```
<!DOCTYPE html>
...
<ul>
    @foreach($markets as $market)
        <li>
            <a href="#">
                {{ $market->name }}
            </a>
        </li>
    @endforeach
</ul>
```



For each market, we will create a list item and a link, displaying the `$market ->name` property

Using the Route Helper for Each Market

The route helper will assist us in creating a url for the show page of each market.

resources/views/markets/index.blade.php

```
<!DOCTYPE html>
```

```
...
```

```
<ul>
```

```
  @foreach($markets as $market)
```

```
    <li>
```

```
      <a href="{{ route('markets.show', $market) }}">
```

```
        {{ $market->name }}
```

```
      </a>
```

```
    </li>
```

```
  @endforeach
```

```
</ul>
```

The first argument to the route helper is the name of the route, which you can find using artisan route:list

The second argument is the market object and its data

Index Method & View Overview

Review how to create an index method and an index view.

How to create a controller using the php artisan CLI

How to use the -m flag to generate a resource controller

Configuring a resource route to map CRUD actions to routes

Using the CLI to view all routes in the application

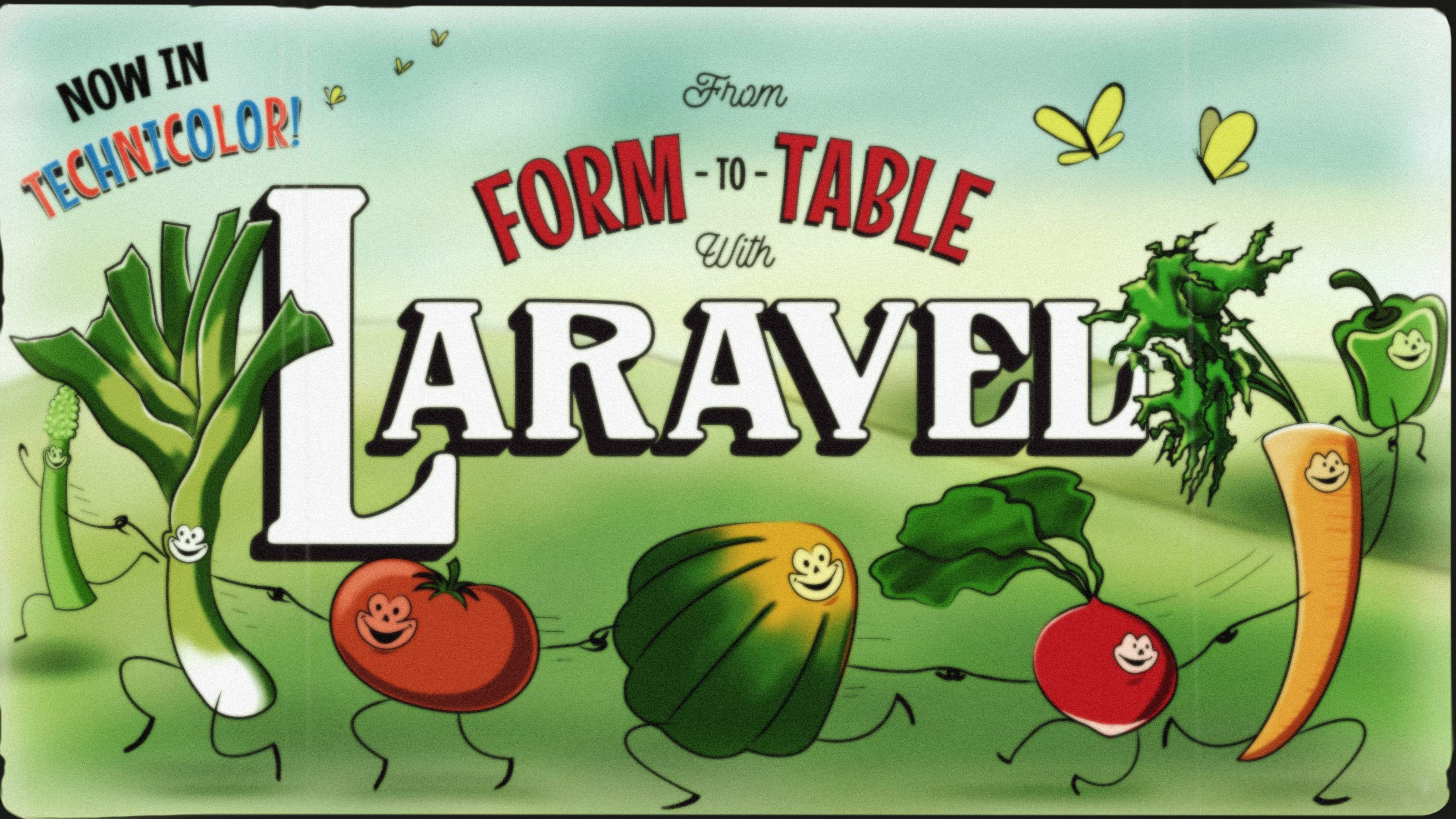
How to query our database for all markets

Passing the query results to a view for display

Create an index template with blade

Loop through all markets with blade

Display a link to the market show page



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