

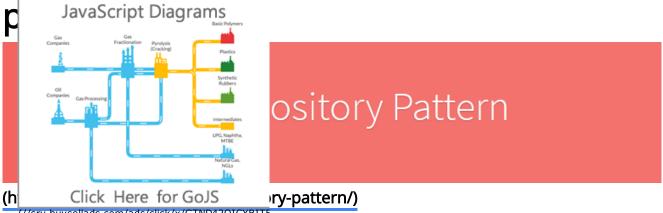
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arayel Repository Pattern nttps://vegibit.com/laravel-repository-



The Repository in a little cleaner and more readable. In fact, you don't have to be easing Laravel in order to use this particular design pattern. For this episode however, we will use the object oriented php (https://vegibit.com/tag/object-oriented-programming/) framework Laravel to show



HousesController.php

```
<?php
class HousesController extends BaseController {
  public function index()
     $houses = House::all();
     return View::make('houses.index', compact('houses'));
  public function create()
  {
     return View::make('houses.create');
  public function show($id)
     $house = House::find($id);
     return View::make('houses.show', compact('house'));
```

This would be pretty typical code for using Eloquent to interact with the database which holds



1: Create the Repository Folder

We recently looked at a common Laravel File Structure (https://vegibit.com/laravel-file-structure/) you might be using. This creates a folder in the app directory to hold all of your domain specific files. For this example we'll create the repotutrepositories within our app folder to contain our files. This also sets up our namespace structure which we will need to keep in mind for the files we create.

2: Create Your Interface

The next step is to create the interface which will determine the contract our repository Download The Free Web Development

Bodinust implement. This just lays out the methods that must be present in our repository. Our (https://dearce.lwidhdockriikeotheelodlowing. Note the namespace and methods we will use. mentwithvegibit/)

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We can now create the repository which will do all of the heavy lifting for us. It is in this file



```
<?php
   namespace repotutrepositories;
   use House;
  class DbHouseRepository implements HouseRepositoryInterface {
     public function selectAll()
        return House::all();
Dον
Boo
(htt
     public function find($id)
me
        return House::find($id);
```

JavaScript Diagrams

e Provider

to type hint an interface. We are going to be doing ay of an interface essentially. What this means is that we rith Laravel so that it knows which implementation of our first use an Eloquent implementation, but later we'll move to show how we can swap implementations easily using an Provider in the same namespace as our other files so far.

3MCGYLYKOMCKSDVSQYCVADLZ3JCW7IK2JUCE7DC
K3KC6BIC2JMC6SDTK3EHJNCLSIZ)
BackendServiceProvider.php





```
<?php
namespace repotutrepositories;

use IlluminateSupportServiceProvider;

class BackendServiceProvider extends ServiceProvider {

   public function register()
   {
        $this->app->bind('repotutrepositoriesHouseRepositoryInterface', 'repotutrepositoriesBook)
}

Book
}
(https://reampub.com/rearnwepdevelop
```

me**Thiishcedle**i的asically says, when you see the controller type hinting HouseRepositoryInterface, we know you want to make use of the DbHouseRepository.

• ୱ:ଏpdate Your Providers Array

JavaScript Diagrams

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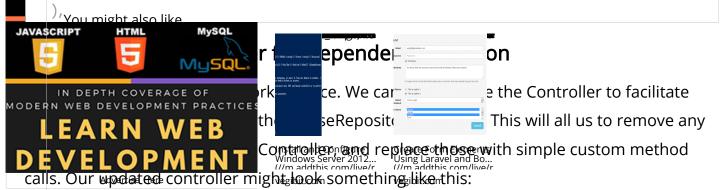
w Service Provider, we need to add this to the providers p. It may look something like this once complete:





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```
'providers' => array(
        'IlluminateFoundationProvidersArtisanServiceProvider',
        'IlluminateAuthAuthServiceProvider',
        'IlluminateCacheCacheServiceProvider',
        'IlluminateSessionCommandsServiceProvider',
        'IlluminateFoundationProvidersConsoleSupportServiceProvider',
        'IlluminateRoutingControllerServiceProvider',
        'IlluminateCookieCookieServiceProvider',
        'IlluminateDatabaseDatabaseServiceProvider',
Dοι
        'IlluminateEncryptionEncryptionServiceProvider',
Bod
        'IlluminateFilesystemFilesystemServiceProvider',
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        'IlluminateHashingHashServiceProvider',
me
        'IlluminateHtmlHtmlServiceProvider',
        'IlluminateLogLogServiceProvider',
        'IlluminateMailMailServiceProvider',
        'IlluminateDatabaseMigrationServiceProvider',
        'IlluminatePaginationPaginationServiceProvider',
        'IlluminateQueueQueueServiceProvider',
        'IlluminateRedisRedisServiceProvider',
        'IlluminateRemoteRemoteServiceProvider',
        'IlluminateAuthRemindersReminderServiceProvider',
        'IlluminateDatabaseSeedServiceProvider',
        'IlluminateSessionSessionServiceProvider',
        'IlluminateTranslationTranslationServiceProvider',
        'IlluminateValidationValidationServiceProvider',
        'IlluminateViewViewServiceProvider',
        'IlluminateWorkbenchWorkbenchServiceProvider',
        'repotutrepositoriesBackendServiceProvider'
```



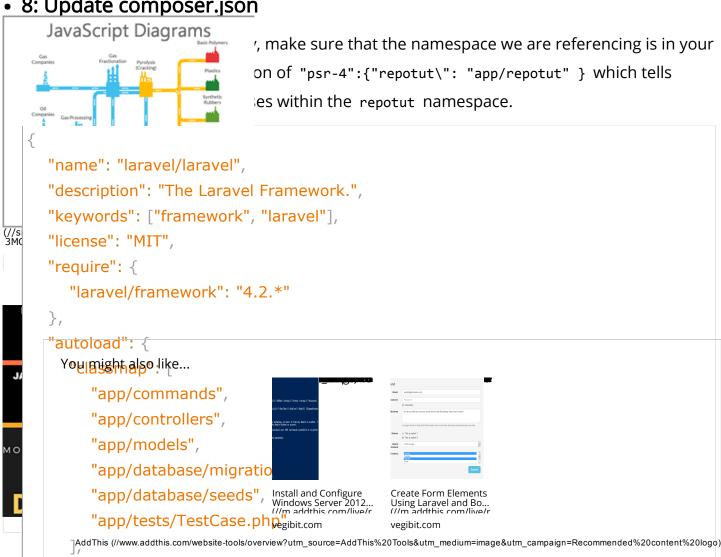
HousesController.php

```
<?php
            use repotutrepositoriesHouseRepositoryInterface;
            class HousesController extends BaseController {
                       public function ___construct(HouseRepositoryInterface $house)
                                     $this->house = $house;
Dοι
Boo
(htt
me
                        public function index()
                                     $houses = $this->house->selectAll();
                                    return View::make('houses.index', compact('houses'));
                        public function create()
                                    return View::make('houses.create');
                        public function show($id)
                               YSHDight also likes->house->find($id);
                                    return View::make('house
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```

For this example we simply set up a route resource like so:

```
<?php
   /*
   | Application Routes
   Here is where you can register all of the routes for an application.
Dol It's a breeze. Simply tell Laravel the URIs it should respond to
Bod | and give it the Closure to execute when that URI is requested.
(htt |
me */
   Route::resource('houses', 'HousesController');
  Search
```

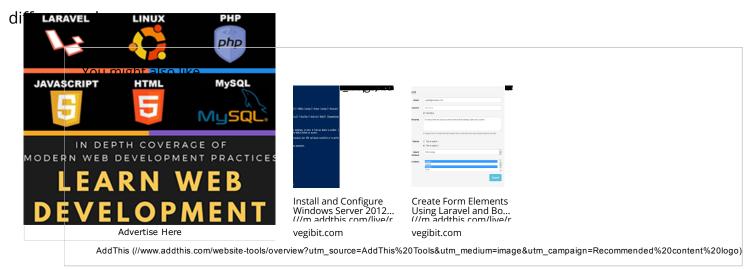
8: Update composer.json



```
"psr-4":{
                  "repotut\": "app/repotut"
     },
     "scripts": {
        "post-install-cmd": [
           "php artisan clear-compiled",
           "php artisan optimize"
Dον
        "post-update-cmd": [
Boo
           "php artisan clear-compiled",
(htt
           "php artisan optimize"
me
        "post-create-project-cmd": [
           "php artisan key:generate"
      "config": {
        "preferred-install": "dist"
      "minimum-stability": "stable"
                                 mp after updating composer.json!
      Click Here for GoJS
```

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Whoa! KNCGBWGMCGBRTt环电外中性的 test it in the browser. We can visit

http://localhost/repotut/public/houses and we can see that we have 3 houses for sale, each a



Laravel Repository Pattern

red house for sale

green house for sale

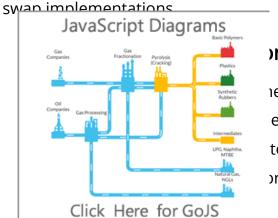
blue house for sale

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Easy//For Change Implementations mentwithvegibit/)

Let's say in the future you decide that Eloquent is not the way you want to handle storing data with your app. No problem! Since you already laid out the ground work for using an interface, you can simple create a new repository and change the Service Provider. Let's see how we can

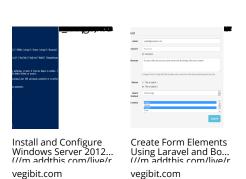


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nere. Let's pretend this is a whole file system class which es. In our case, we'll just put some simple logic in to test te that this class implements the same exact methods as the r.

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```
<?php
  namespace repotutrepositories;
  class FileHouseRepository implements HouseRepositoryInterface {
     public function selectAll()
        $houses = new stdClass;
        $house1 = new stdClass;
Dον
        $house1->color = 'Olive';
Boo
(htt
        $house2 = new stdClass;
me
        $house2->color = 'Yellow';
        $house3 = new stdClass;
        $house3->color = 'Brown';
        $houses = array($house1,$house2,$house3);
        return $houses;
     public function find($id)
        return 'Here is a single house listing, again using the file system';
```



```
<?php
namespace repotutrepositories;

use IlluminateSupportServiceProvider;

class BackendServiceProvider extends ServiceProvider {

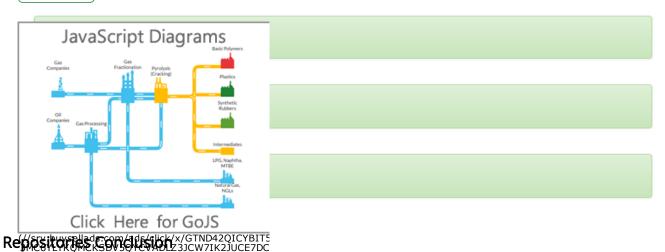
   public function register()
   {
        $this->app->bind('repotutrepositoriesHouseRepositoryInterface', 'repotutrepositoriesBook)
}

Book
}
(https://reampub.com/reamwebbeverop
```

When twe test bit in the browser at http://localhost/repotut/public/houses we can see that the new implementation has indeed taken effect, very cool!

Laravel Repository Pattern

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As you can see the like a lot of steps to get Repositories working in your application. There

are a few steps involved, no doubt about it. If you are going to be responsible for maintaining a





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ted Stire;
ted Stire;
ted Sengine;
function __construct(Tire Stire, Engine Sengine) {
this->tire = Stire;
this->engine = Sengine;

e {}
tine {}
('Car', function()
new Car(new Tire, new Engine);

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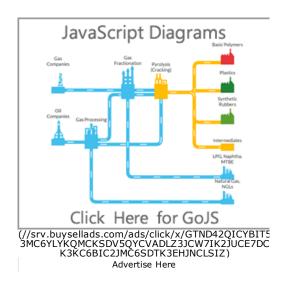
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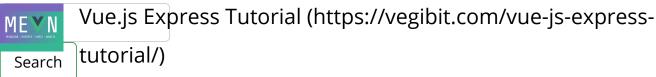
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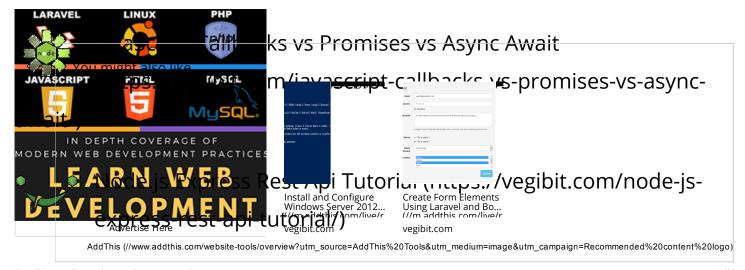




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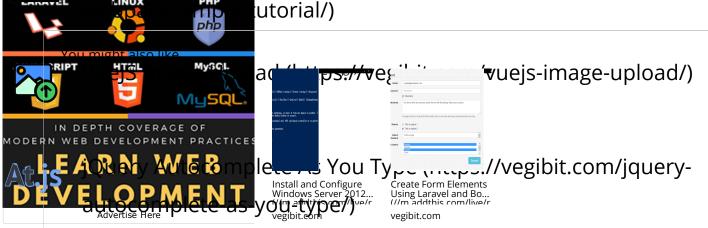
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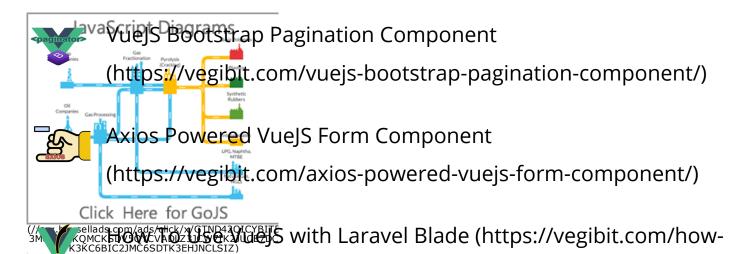


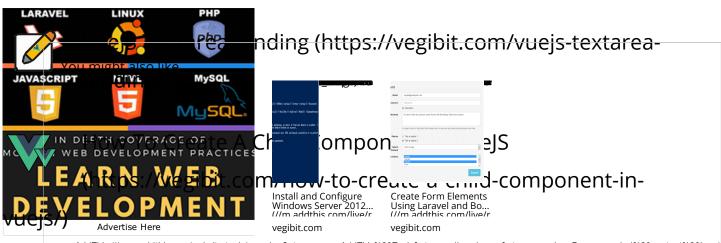
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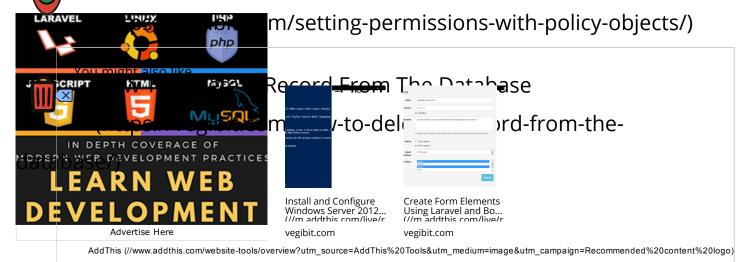
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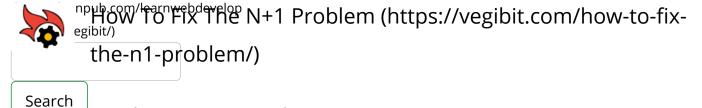




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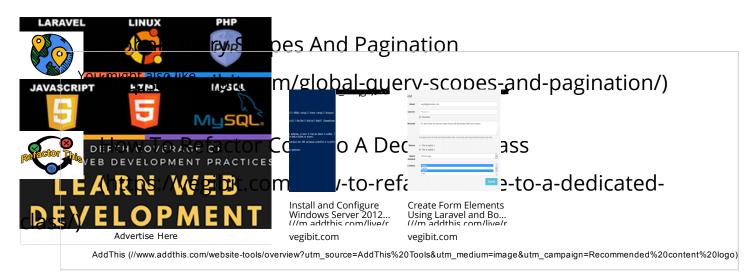


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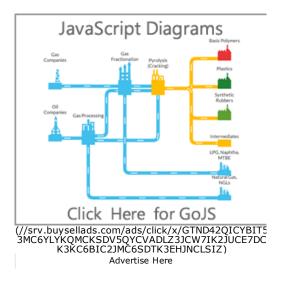
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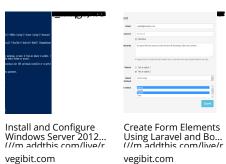
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