

Component-2: CRUD

ADVANCED WEB ENGINEERING

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Prerequisites to doing CRUD and Login:

Installed: Bootstrap, Auth Scaffolding, npm install and npm run dev

1. Starting Laravel serve using -php artisan serve

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL POLYGLOT NOTEBOOK

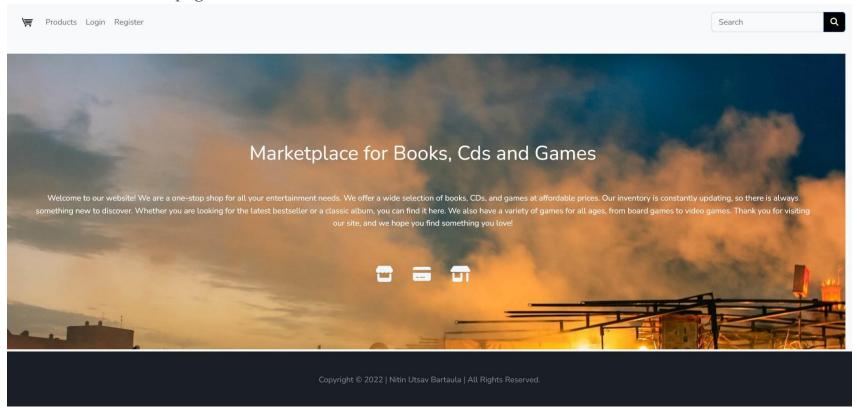
PS C:\xampp\htdocs\Component 2 Final Web Applications\component-2-bnitin6034> php artisan serve

INFO Server running on [http://127.0.0.1:8000].

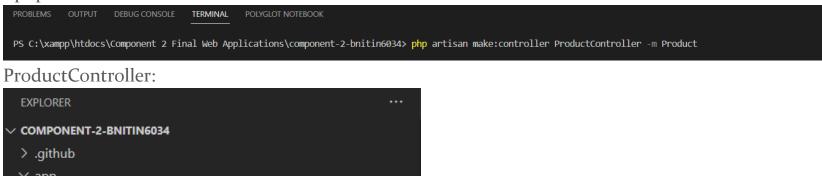
Press Ctrl+C to stop the server

[]
```

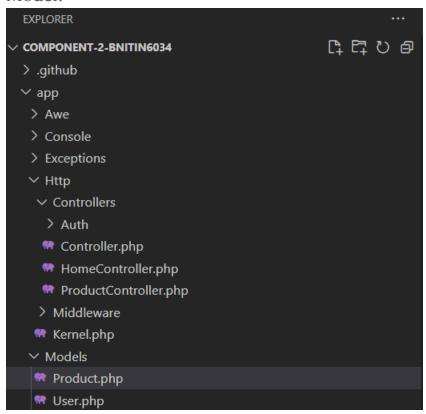
Custom Made Homepage:



2. Creating a Resource Controller and Model using-php artisan make:controller ProductController -m Product

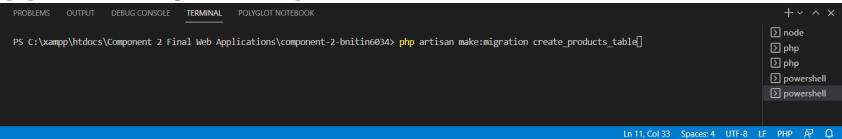


Model:



3. Creating a 'products' table using:

-php artisan make:migration create_products_table



Adding attributes to the database table

```
e web.php
                                           ** 2022_12_29_175541_create_products_table.php X
COMPONENT-2-BNITIN6034
                            database > migrations > 9 2022_12_29_175541_create_products_table.php
> .github
                                7 return new class extends Migration
 > Console
                                           * Run the migrations.
 > Exceptions
                                           * @return void

∨ Controllers

   > Auth
                                         public function up()
  Controller.php
   M HomeController.php
  ♠ ProductController.php
                                              Schema::create('products', function (Blueprint $table) {
  > Middleware
                                                    $table->id()->autoincrement();
  Rernel.php
                                                    $table->string('title');

✓ Models

                                                    $table->string('firstname')->nullable;
  Product.php
                                                    $table->string('surname');
  👭 User.php
                                                    $table->float('price');
 > Providers
                                                    $table->float('pages');
> bootstrap
                              23
                                                    $table->string('image');
                                                   $table->string('category');
∨ database
                                                    $table->timestamps();

√ factories

  ProductFactory.php
  ₩ UserFactory.php

✓ migrations

  * 2014_10_12_000000_create_...
                             PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL POLYGLOT NOTEBOOK: VARIABLES
  ** 2014_10_12_100000_create_...
                                                                                                                                                                             * 2019 08 19 000000 create f...
                             PS C:\xampp\htdocs\Component 2 Final Web Applications\component-2-bnitin6034> php artisan serve
                                                                                                                                                                             php
  * 2019_12_14_000001_create_...
                               INFO Server running on [http://127.0.0.1:8000].

    php

                                                                                                                                                                             powershell
                              Press Ctrl+C to stop the server
                                                                                                                                                                             powershell
OUTLINE
TIMELINE
```

Running command: -php artisan migrate, to update mysql database



4. Using Factory and Seeder class to populate database with 15 'Faker' Data

```
₱ ProductFactory.php X
₱ ProductSeeder.php
                                                                                                                                                                     □ ...
                              database > factories > * ProductFactory.php
    ∨ COMPONENT-2-BNITIN6034
      > Console
                                          public function definition()
      > Exceptions
                                              $gender = $this->faker->randomElement(['male', 'female']);

∨ Controllers

                                                    'firstname' => $this->faker->firstName($gender),
        Controller.php
                                                   'surname' => $this->faker->lastName,
                                                   //'price' => $this->faker->numberBetween($min = 9.99, $max = 99.99),
       ProductController.php
                                27
                                                   'price'=>$this->faker->randomFloat(1,20,30,40),
       > Middleware
                                                   'category' => $this->faker->randomElement(['book', 'cd','game']),
      Kernel.php

✓ Models

      Product.php
      W User.php
      > Providers
                                          public function makeBook()
     > bootstrap
     > config
                                              return $this->state(function (array $attributes) {

✓ database

      factories
                                                        'title' => $this->faker->randomElement(['Oliver Twist', 'Origin of Species', 'A Week with
       ProductFactory.php
                                                       Gandhi', 'A Woman\'s Life', 'Aadhe Adhure', 'Adventures of Sherlock Holmes', 'Adventures of
      W UserFactory.php
                                                       Tom Sawyer', 'Ain - i - Akbari', 'Akbarnama', 'Alice in Wonderland']),

✓ migrations

                                                        'image' => $this->faker->randomElement(['book1.jpg', 'book2.jpg', 'book3.jpg']),
      ? 2014_10_12_000000_create_.
                                                        'pages' => $this->faker->numberBetween($min = 100, $max = 500),
      ?? 2014 10 12 100000 create .
      9 2019 08 19 000000 create f...
                                                        'category' => 'book',
      ** 2019_12_14_000001_create_...
      ₩ 2022 12 29 175541 create ...

✓ seeders

      DatabaseSeeder.php
      ProductSeeder.php
                                          public function makeCd()
                                              return $this->state(function (array $attributes) {
     > node_modules
                                                   return [
     > public
                                                        'title' => $this->faker->randomElement(['Led Zeppelin IV', 'Bad', 'Bat Out of Hell',
   > OUTLINE
                                                        'Jagged Little Pill', 'Dirty Dancing', 'Falling into You', 'Metallica', 'Let\'s Talk About
    > TIMELINE
                                                        Love' 'Lorand: The Root of Rob Mapley & The Wailens' 'Apportite for Destruction')
$° master → ⊗ 0 🛦 0
```

```
ProductSeeder.php X
   ∨ COMPONENT-2-BNITIN6034
      > Exceptions
                                       namespace Database\Seeders;

∨ Controllers

        > Auth
                                   5    use Illuminate\Database\Console\Seeds\WithoutModelEvents;
                                       use Illuminate\Database\Seeder;
       M HomeController.php
                                       use App\Models\Product;
       > Middleware
                                       class ProductSeeder extends Seeder
      Kernel.php

✓ Models

      W User.php
      > Providers
                                             * @return void

✓ database

                                            public function run()

✓ factories

                                                 Product::factory()->makeBook()->count(5)->create();
                                                 Product::factory()->makeCd()->count(5)->create();
                                                 Product::factory()->makeGame()->count(5)->create();
      * 2014_10_12_000000_create_...
                                 21
      ?? 2014_10_12_100000_create_...
      9 2019_08_19_000000_create_f...
      ?? 2019_12_14_000001_create_...
      * 2022_12_29_175541_create_...

✓ seeders

      m DatabaseSeeder.php
      .gitignore
     > public
    > TIMELINE
                                                                                                                                               Ln 21, Col 6 Spaces: 4 UTF-8 LF PHP 🛱 🚨
```



5. Index blade page and its corresponding Resource Controller function to display items

```
COMPONENT-2-BNITIN6034
                        1 @extends('layouts.app')
                        3 @section('content')
> readme_images
                        4 4 link rel="stylesheet" href="{{ asset('css/global.css') }}">

∨ resources

                        5 link rel="stylesheet" href="{{ asset('css/style.css') }}">
                        6 <script src="https://kit.fontawesome.com/f6dd6c55d1.js" crossorigin="anonymous"></script>

∨ views

                             <div class="col text-center">
                                 <h1>All Products<i class="fa-solid fa-basket-shopping ms-3"></i></h1>
  ereate blade php
                           <div class="col text-end mb-2">
  edit.blade.php
                                <a href="{{ route('products.create') }}" class="btn btn-secondary" id="button-addnew">Add New</a>
 nome.blade.php
                       16 <div class="row">
 welcome.blade.php
                               @foreach ($products as $product)
                                 <div class="col-4 mb-2">
                                      <div class="card h-100 position-relative">
                                         <img src="images/{{ $product -> image }}" id="bookimg" class="card-img-book" alt="Palm
                                          Springs Road" />
> storage
                                          <div class="card-body">
                                              <h5 class="card-title text-center">{{ $product -> title }}</h5>
                                              {{ $product -> firstname }}
.editorconfig
                                              {{ $product -> surname }}
.env
                                               <b> $ </b> {{ $product -> price }}

≡ .env.example

 gitattributes.
                     PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL POLYGLOT NOTEBOOK: VARIABLES

      ∑ node
      ☐

                     PS C:\xampp\htdocs\Component 2 Final Web Applications\component-2-bnitin6034>
```

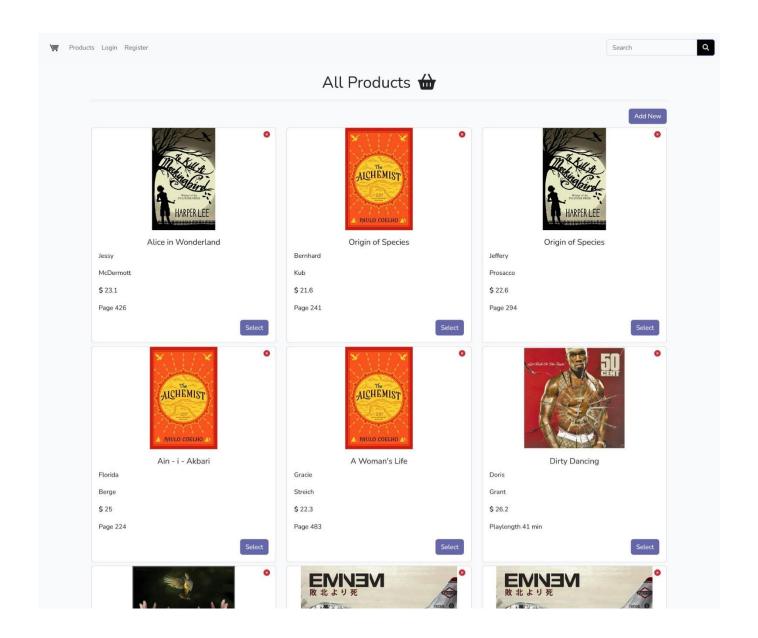
```
ProductController.php X
> .github
                         1 <?php
                             namespace App\Http\Controllers;
 > Exceptions
                         5 use App\Models\Product;
                             use Illuminate\Http\Request;

∨ Controllers

  > Auth
                         8 class ProductController extends Controller
  ** Controller.php
  M HomeController.php
 > Middleware
                                  * Display a listing of the resource.
 Kernel.php
 ∨ Models
                                  * @return \Illuminate\Http\Response
 M Product.php
 W User.php
                                 public function index()
 > Providers
                        16
> config
                                     $products = Product::latest()->get();

✓ database

                                     return view('products.index',compact('products'));
 ProductFactory.php
```



6. Add Item Form page and its corresponding Resource Controller function

```
♠ ProductController.php
♠ create.blade.php ×
COMPONENT-2-BNITIN6034
                                @extends('layouts.app')

✓ migrations

 ?? 2014_10_12_000000_create_...
  * 2014_10_12_100000_create_...
                           3 @section('content')
  * 2019_08_19_000000_create_f...
                           4 4 \land link href="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css" rel="stylesheet"
 * 2019_12_14_000001_create_...
                                id="bootstrap-css">
 * 2022_12_29_175541_create_...

✓ seeders

                           6 <link rel="stylesheet" href="{{ asset('css/form.css') }}">
 DatabaseSeeder.php
                           7 <script src="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js"></script>
                           8 <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
 gitignore
                           9 <!----- Linking mdbootstrap and Form's Custom CSS ------>
> node_modules
                          11 <section class="get-in-touch">
> public
> readme_images
                                    <h1 class="create-form-heading">Add Product</h1>
                                    <form class="contact-form row" action="{{ route('products.store') }}" method="POST">
                                        @csrf
 > sass
                                        <select class="w-25 p-2 mb-4" name="category">

✓ views

                                             <option selected value="cd">CD</option>
  > auth
                                             <option value="book">Book</option>

✓ layouts

                                             <option value="game">Game</option>
  mapp.blade.php

✓ products

  ereate.blade.php
                                        <div class="form-field col-lg-6">
  edit.blade.php
  m index.blade.php
                                             <input id="name" name="title" class="input-text js-input" type="text" required>
  m home.blade.php
                                             <label class="label" for="title">Title</label>
  m welcome.blade.php
                  ₱ ProductController.php X
₱ create.blade.php
> .github
> Awe
                            * @return \Illuminate\Http\Response
                           public function create()
 Controller.php
                                return view('products.create');
 # HomeController.php
```

ADD PRODUCT

CD v	
Title	Firstname (optional)
Surname / Band	Price
Pages / Playlength	
SUBMIT	

7. Adding data to the db table using form. Using 'Store' function of Resource Controller to do so

8. Modify table data using Form. Using edit.blade.php and its corresponding controller function 'edit' and 'update'

```
edit.blade.php X
@extends('layouts.app')
                            @section('content')
 > sass
                        4 4 kref="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css" rel="stylesheet"

✓ views

                            id="bootstrap-css">
 > auth

✓ layouts

                        6 <link rel="stylesheet" href="{{ asset('css/form.css') }}">
  e app.blade.php
                        7 <script src="//maxcdn.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js"></script>

→ products

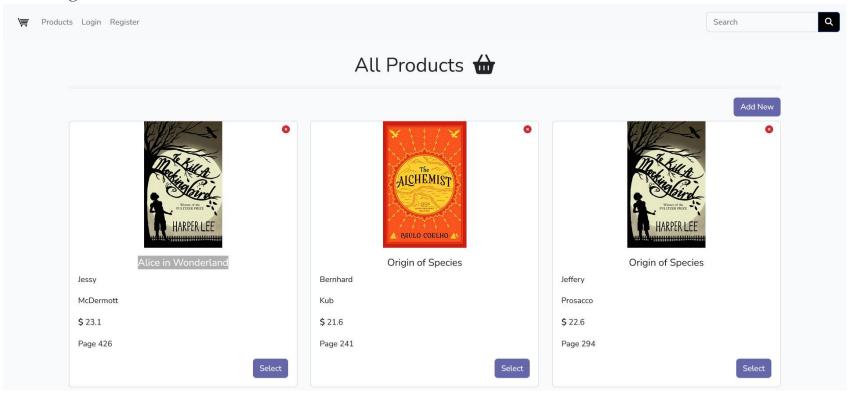
                        8 <script src="//cdnjs.cloudflare.com/ajax/libs/jquery/3.2.1/jquery.min.js"></script>
  create.blade.php
                            <!----- Linking mdbootstrap and Form's Custom CSS ----->
  ndex.blade.php
 nome.blade.php
                       11 <section class="get-in-touch">
 m welcome.blade.php
                                <h1 class="create-form-heading">Update Product</h1>
routes
                                <form class="contact-form row" action="{{ route('products.update', $product->id) }}" method="POST">
💏 api.php
                                    @csrf
m channels.php
                                    @method('PUT')
ensole.php
                                    <div class="d-flex justify-content-between align-items-center">
e web.php
                                        <select class="w-25 p-2 mb-4" name="category">
> storage
                                            <option value="cd" @if($product->category=='cd') selected @endif>CD</option>
> tests
                                            <option value="book" @if($product->category=='book') selected @endif>Book</option>
> vendor
                                            <option value="game" @if($product->category=='game') selected @endif>Game</option>
.editorconfig
.env
 .gitattributes
                                    <div class="form-field col-lg-6">
                                        <input id="name" name="title" class="input-text js-input" type="text" value="{{</pre>
≣ artisan
                                        $product->title }}" required>
```

```
v COMPONENT-2-B... 🖺 📴 🖒 🗊 🛽 app > Http > Controllers > 💏 ProductController.php
> .github
                                      * Show the form for editing the specified resource.
 > Exceptions
                                       * @param \App\Models\Product $product

∨ Controllers

                                       * @return \Illuminate\Http\Response
   > Auth
  Controller.php
  M HomeController.php
                                      public function edit(Product $product)
  M ProductController.php
  > Middleware
                                          return view('products.edit',compact('product'));
  Kernel.php
 ∨ Models
  Product.php
  W User.php
                                       * Update the specified resource in storage.
 > Providers
> bootstrap
                                       * @param \Illuminate\Http\Request $request
                                       * @param \App\Models\Product $product
∨ database
                                       * @return \Illuminate\Http\Response
  ProductFactory.php
  W UserFactory.php
                                      public function update(Request $request, Product $product)
                                          $product->update($request->all());
  ? 2014_10_12_100000_create_...
                                          return redirect()->route('products.index');
  ? 2019_12_14_000001_create_...
```

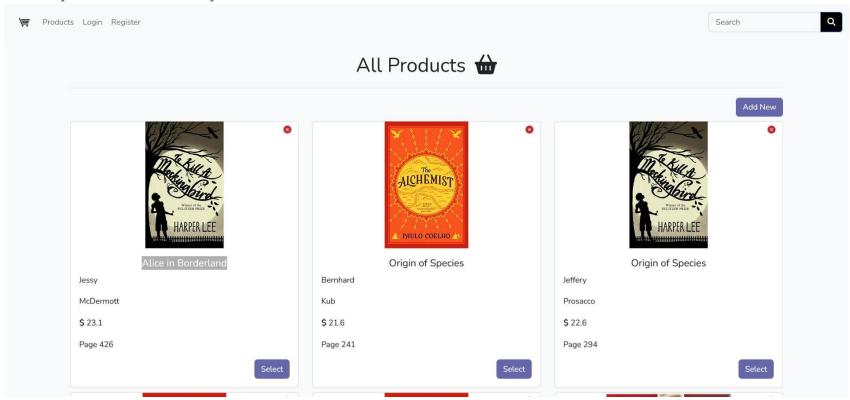
To change the title of this card



Changing title 'Alice in Wonderland' to 'Alice in Borderland' and pressing submit

logo Products Login Register			Search Q
	UPDATE	PRODUCT	
	Book		
	Title Alice in Borderland	Firstname (optional) Jessy	
	Surname / Band McDermott	Price 23.1	
	Pages / Playlength 426		
	SUBMIT		

Title Updated Successfully



9. Lastly, for our Delete operation, creating a form to use destroy function

```
<form action="{{ route('products.destroy',$product->id) }}" method="POST">
readme images
                                                        @csrf
resources
                                                        @method('DELETE')
                                                        <div class="text-end">
                                                            <a href="{{ route('products.edit',$product->id) }}" class="btn btn-secondary
> sass
                                                            select-btn" id="button-select">Select</a>

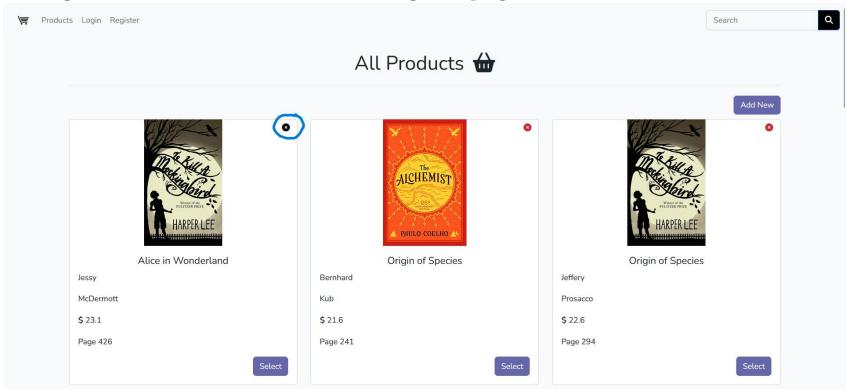
✓ views

                                                            <!-- <div class="btn btn-light rounded-pill position-absolute top-0 end-0 p-0">
> auth
                                                                 <button class="btn fa-solid fa-trash fa-md "></button>

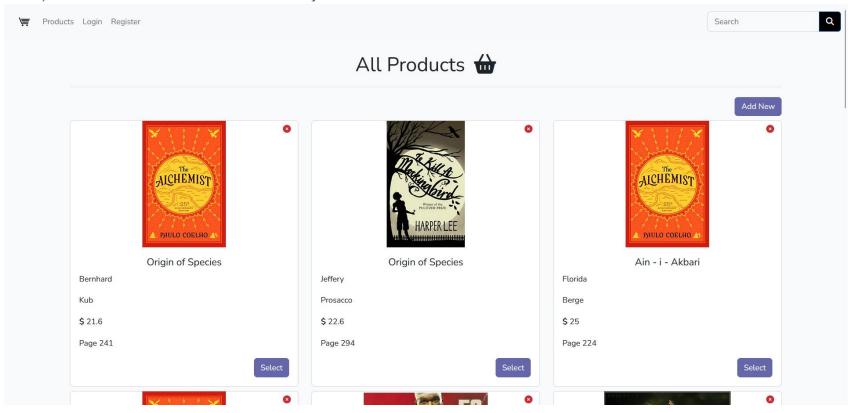
✓ layouts

💏 app.blade.php
                                                            <div class="position-absolute top-0 end-0 p-0">
 ereate.blade.php
                                                                 <button class="btn fa-solid fa-circle-xmark fa-md" id="button-cross">//
edit.blade.php
m home.blade.php
welcome.blade.php
                                                                                                                                                         II ...
                        app > Http > Controllers > 📅 ProductController.php
COMPONENT-2-BNITIN6034
> .github
                                     * Remove the specified resource from storage.
 > Awe
 > Console
                                     * @param \App\Models\Product $product
 > Exceptions
                                     * @return \Illuminate\Http\Response
  ∨ Controllers
                                    public function destroy(Product $product)
   Controller.php
                                        $product->delete();
   M HomeController.php
                                        return redirect()->route('products.index')->with('success', 'Product deleted successfully');
  > Middleware
  M Kernel.php
 ∨ Models
```

Deleting this book titled 'Alice in Borderland' using the top right cross icon



And just like that, there is no more any record of a book called 'Alice in Borderland'



END