

DOCUMENTATION

The purpose of the layout file and how it is used:

- The layout file is used as the foundation or base for all other views. In Laravel, the Blade templating engine provides @extends and @section directives to connect individual view files with the layout.

```
resources > views > Components > layout.blade.php
33 <body>
34 <!-- Header Section -->
35 <header>
36 <!-- Header content, like navbar, can be included here if needed -->
37 <div class="header_section header_bg">
38 <div class="container-fluid">
39 <nav class="navbar navbar-expand-lg navbar-light bg-light">
40 <a class="navbar-brand" href="{{ route('home') }}">
41
42 </a>
43 <button class="navbar-toggler" type="button" data-toggle="collapse"
44 data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent"
45 aria-expanded="false" aria-label="Toggle navigation">
46 <span class="navbar-toggler-icon"></span>
47 </button>
48 <div class="collapse navbar-collapse" id="navbarSupportedContent">
49
50 <h1><b>WebDev Cafe</b></h1>
51 <ul class="navbar-nav ml-auto">
52
53 <li class="nav-item">
54 <a class="nav-link" href="{{ route('home') }}">Home</a>
55 </li>
56 <li class="nav-item">
57 <a class="nav-link" href="{{ route('about') }}">About</a>
58 </li>
59 <li class="nav-item">
60 <a class="nav-link" href="{{ route('coffees') }}">Coffees</a>
61 </li>
62 <li class="nav-item">
63 <a class="nav-link" href="{{ route('inventory') }}">Inventory</a>
64 </li>
65 <li class="nav-item">
66 <a class="nav-link" href="{{ route('contact') }}">Contact</a>
67 </li>
```

Header: The navigation bar is placed inside the header section. It contains links to different pages such as Home, About, Coffees, Inventory, and Contact. The @yield directive is not used here because the header is common across all pages.

```
resources > views > Components > layout.blade.php
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5 <!-- Basic -->
6 <meta charset="utf-8">
7 <meta http-equiv="X-UA-Compatible" content="IE=edge">
8 <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1">
9 <!-- Site Metas -->
10 <title>@yield('title', 'WebDev Cafe')</title>
11 <meta name="keywords" content="coffee shop, cafe, community, quality coffee, local cafe">
12 <meta name="description"
13 content="Discover the story of our shop, a community hub where quality coffee and a welcoming atmosphere meet.">
14 <meta name="author" content="DozeCafe">
15 <!-- Bootstrap CSS -->
16 <link rel="stylesheet" type="text/css" href="{{ asset('css/bootstrap.min.css') }}">
17 <!-- Style CSS -->
18 <link rel="stylesheet" type="text/css" href="{{ asset('css/style.css') }}">
19 <!-- Responsive CSS -->
20 <link rel="stylesheet" href="{{ asset('css/responsive.css') }}">
21 <!-- Favicon -->
22 <link rel="icon" href="{{ asset('images/fevicon.png') }}" type="image/gif" />
23 <!-- Font CSS -->
24 <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;600;800&display=swap" rel="stylesheet">
25 <!-- Scrollbar Custom CSS -->
26 <link rel="stylesheet" href="{{ asset('css/jquery.mCustomScrollbar.min.css') }}">
27 <!-- Font Awesome -->
28 <link rel="stylesheet" href="https://netdna.bootstrapcdn.com/font-awesome/4.0.3/css/font-awesome.css">
29 <!-- for inventory -->
30 <link rel="stylesheet" href="{{ asset('css/inventory.css') }}">
31 </head>
32
33 <body>
34 <!-- Header Section -->
35 <header>
```

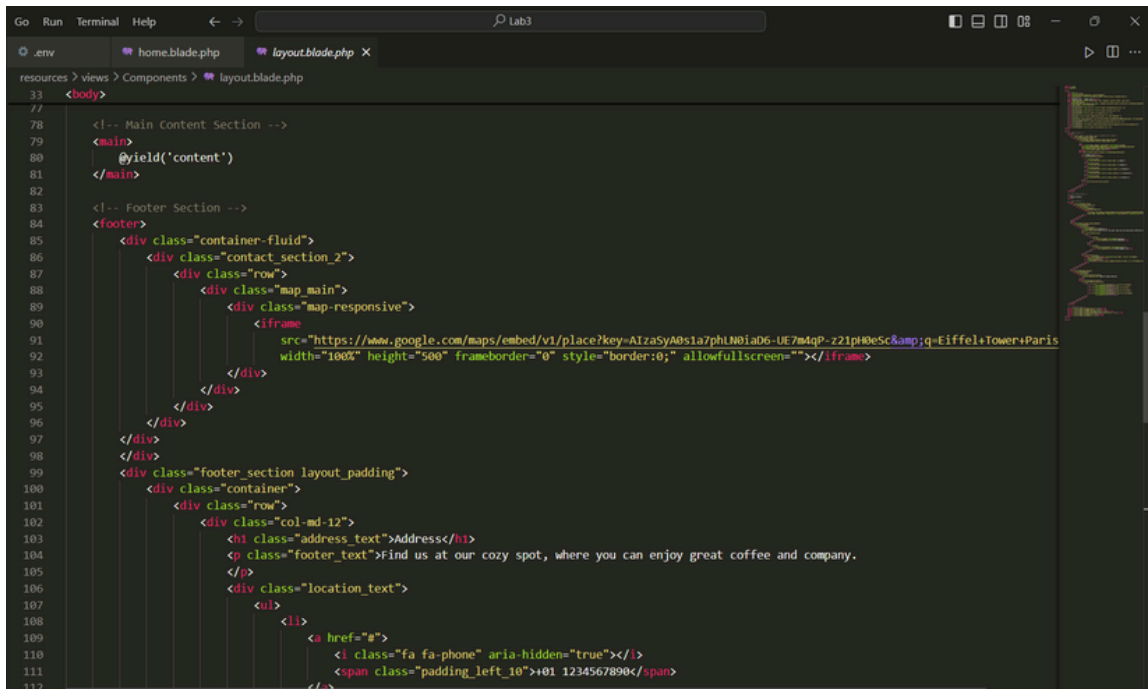
Head Section: This section includes metadata, CSS stylesheets, and assets like Bootstrap and custom CSS. It also contains the page title, which can be dynamically changed in each view using @yield('title', 'WebDev Cafe').

```

76 </header>
77
78 <!-- Main Content Section -->
79 <main>
80     @yield('content')
81 </main>
82
83 <!-- Footer Section -->
84 <footer>
85     <div class="container-fluid">

```

Main Content Area: The main content of the page is injected using `@yield('content')`. This is the placeholder where each individual view can insert its unique content. For instance, the Home page may include a welcome message, while the About page could include information about the cafe.



```

78 <!-- Main Content Section -->
79 <main>
80     @yield('content')
81 </main>
82
83 <!-- Footer Section -->
84 <footer>
85     <div class="container-fluid">
86         <div class="contact_section_2">
87             <div class="row">
88                 <div class="map_main">
89                     <div class="map-responsive">
90                         <iframe
91                             src="https://www.google.com/maps/embed/v1/place?key=AIzaSyA0s1a7phN0iaD6-UE7m4qP-z21PH0eSc&amp;q=Eiffel+Tower+Paris
92                             width="100%" height="500" frameborder="0" style="border:0;" allowfullscreen=""></iframe>
93                     </div>
94                 </div>
95             </div>
96         </div>
97     </div>
98 </div>
99     <div class="footer_section layout_padding">
100         <div class="container">
101             <div class="row">
102                 <div class="col-md-12">
103                     <h1 class="address_text">Address</h1>
104                     <p class="footer_text">find us at our cozy spot, where you can enjoy great coffee and company.
105                     </p>
106                     <div class="location_text">
107                         <ul>
108                             <li>
109                                 <a href="#">
110                                     <i class="fa fa-phone" aria-hidden="true"></i>
111                                     <span class="padding_left_10">+01 1234567890</span>
112                                 </a>

```

Footer: The footer is a standard component with contact information, social media links, and a form for subscribing via email. Since this section is static and shared across all views, it is directly included in the layout without any `@yield` directives.

How each view file extends the layout and inserts specific content.

Extending the Layout

- `@extends('layouts.app')`: This directive tells Laravel that the current view file should use the layout defined in the `layouts/app.blade.php` file. The layout file typically contains the HTML structure common to all pages, such as headers, footers, and any shared styling or scripts. By using `@extends`, the view file inherits this common structure, ensuring a consistent look and feel across different pages of the application.

Inserting Specific Content

- `@section('title', 'Page Title')`: Within the view file, you can define sections of content that should replace placeholders in the layout. For example, `@section('title', 'About Us')` sets the title of the page to "About Us". This title is injected into the layout's `@yield('title')` placeholder, allowing each page to have a unique title while still using the same layout.
- `@section('content')`: The `@section` directive is used to define content for a specific section of the layout. For instance, `@section('content')` begins a block of HTML that will be inserted into the layout's `@yield('content')` placeholder. This block of content is specific to the view and can include HTML, Blade directives, and embedded PHP code. The `@section('content')` directive is typically used to provide the unique content of the page, such as text, images, or other elements.
- `@yield('content')`: In the layout file, `@yield('content')` is used as a placeholder where the content from different view files will be inserted. This allows the layout to remain consistent while different views provide their own specific content.

Home Blade (`home.blade.php`):

```
1 @extends('Components.layout')
2
3 @section('content')
4     <div class="banner section layout_padding">
5         <div class="banner">
6             <div class="banner_img">
7                 
8             </div>
9             <div class="banner_text">
10                 <h1>Welcome to our shop</h1>
11                 <p>Our journey began with a passion for great coffee and a desire to create a welcoming space for our community. Since our opening, we have been dedicated to delivering quality products and exceptional customer service. From our humble beginnings to becoming a well-loved spot in the neighborhood, our commitment to excellence remains at the heart of everything we do. We invite you to be part of our story as we continue to grow and evolve.</p>
12             </div>
13         </div>
14     </div>
15 @endsection
```

- Layout: Uses `@extends('Components.layout')` to inherit the layout structure (header, footer, navigation) from `Components/layout.blade.php`.
- Content: The `@section('content')` block provides the unique content for the home page, such as a welcome message or featured sections.

About Blade (`about.blade.php`):

```
1 @extends('Components.layout')
2
3 @section('content')
4     <div class="about section layout_padding">
5         <div class="about">
6             <div class="about_img">
7                 
8             </div>
9             <div class="about_text">
10                 <h2>About Our Shop</h2>
11                 <p>Our journey began with a passion for great coffee and a desire to create a welcoming space for our community. Since our opening, we have been dedicated to delivering quality products and exceptional customer service. From our humble beginnings to becoming a well-loved spot in the neighborhood, our commitment to excellence remains at the heart of everything we do. We invite you to be part of our story as we continue to grow and evolve.</p>
12             </div>
13         </div>
14     </div>
15 @endsection
```

- Layout: Uses `@extends('Components.layout')` for consistent page structure.
- Content: The `@section('content')` block provides information about the shop's story and mission.

Coffees Blade (`coffees.blade.php`):

```
1 @extends('Components.layout')
2
3 @section('content')
4     <div class="coffees section layout_padding">
5         <div class="coffees">
6             <div class="coffees_img">
7                 
8             </div>
9             <div class="coffees_text">
10                 <h2>Our Coffees</h2>
11                 <p>Our journey began with a passion for great coffee and a desire to create a welcoming space for our community. Since our opening, we have been dedicated to delivering quality products and exceptional customer service. From our humble beginnings to becoming a well-loved spot in the neighborhood, our commitment to excellence remains at the heart of everything we do. We invite you to be part of our story as we continue to grow and evolve.</p>
12             </div>
13         </div>
14     </div>
15 @endsection
```

- Layout: Maintains a unified design with `@extends('Components.layout')`.
- Content: `@section('content')` presents coffee product details, descriptions, and images.

Inventory Blade (`inventory.blade.php`):

```
1 @extends('Components.layout')
2
3 @section('content')
4     <div class="inventory section layout_padding">
5         <div class="inventory">
6             <div class="inventory_img">
7                 
8             </div>
9             <div class="inventory_text">
10                 <h2>Inventory</h2>
11                 <p>Our journey began with a passion for great coffee and a desire to create a welcoming space for our community. Since our opening, we have been dedicated to delivering quality products and exceptional customer service. From our humble beginnings to becoming a well-loved spot in the neighborhood, our commitment to excellence remains at the heart of everything we do. We invite you to be part of our story as we continue to grow and evolve.</p>
12             </div>
13         </div>
14     </div>
15 @endsection
```

- Layout: Inherits the same layout structure as other pages with `@extends('Components.layout')`.
- Content: Uses `@section('content')` to display inventory-related content, like product lists or stock management details.

Contact Blade (`contact.blade.php`):

```
1 @extends('Components.layout')
2
3 @section('content')
4     <div class="contact section layout_padding">
5         <div class="contact">
6             <div class="contact_img">
7                 
8             </div>
9             <div class="contact_text">
10                 <h2>Contact Us</h2>
11                 <p>Our journey began with a passion for great coffee and a desire to create a welcoming space for our community. Since our opening, we have been dedicated to delivering quality products and exceptional customer service. From our humble beginnings to becoming a well-loved spot in the neighborhood, our commitment to excellence remains at the heart of everything we do. We invite you to be part of our story as we continue to grow and evolve.</p>
12             </div>
13         </div>
14     </div>
15 @endsection
```

- Layout: Applies the consistent layout from `Components/layout.blade.php` using `@extends('Components.layout')`.
- Content: `@section('content')` includes specific contact information, such as forms and contact details.

The routing setup and how it serves the views.

```
Go Run Terminal Help
.env home.blade.php web.php
routes > web.php
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4
5  Route::get('/', function () {
6      return view('home');
7  }->name('home');
8
9  Route::get('about', function () {
10     return view('about');
11 }->name('about');
12
13 Route::get('coffees', function () {
14     return view('coffees');
15 }->name('coffees');
16
17 Route::get('contact', function () {
18     return view('contact');
19 }->name('contact');
20
21 Route::get('inventory', function () {
22     return view('inventory');
23 }->name('inventory');
24
25
```

Home Route (/):

- Route: `Route::get('/', function () { return view('home'); }->name('home');`
- Description: This route maps the root URL (/) to the home view. It uses the route name home for referencing this route.

About Route (about):

- Route: `Route::get('about', function () { return view('about'); }->name('about');`
- Description: This route maps the URL about to the about view. It uses the route name about.

Coffees Route (coffees):

- Route: `Route::get('coffees', function () { return view('coffees'); }->name('coffees');`
- Description: This route maps the URL coffees to the coffees view. It uses the route name coffees.

Contact Route (contact):

- Route: `Route::get('contact', function () { return view('contact'); }->name('contact');`
- Description: This route maps the URL contact to the contact view. It uses the route name contact.

Inventory Route (inventory):

- Route: `Route::get('inventory', function () { return view('inventory'); }->name('inventory');`
- Description: This route maps the URL inventory to the inventory view. It uses the route name inventory.

Basically, each route is defined using the `Route::get()` method, which specifies the URL path and the associated view. The `name()` method assigns a name to each route, allowing for easier referencing in your application.

Challenges Faced and How They Were Resolved

1. An error related to the DB_CONNECTION setting in your .env file

```
DB_CONNECTION=sqlite
# DB_HOST=127.0.0.1
# DB_PORT=3306
# DB_CONNECTION=sqlite
# DB_DATABASE=C:\Users\Clarence John Maneja\Herd\Lab3\database\database.sqlite
# DB_USERNAME=root
# DB_PASSWORD=
```

```
php artisan config:cache
php artisan config:clear
php artisan serve
```

2. Missing or Misnamed Files: I encountered this issues when Blade files or routes are incorrectly named or misplaced in the wrong directory.

- Ensuring consistent naming conventions and file paths resolves this.

3. View Not Found Errors: I encountered an error like View [home] not found, it could be due to misconfigured file paths or a missing Blade file.

- This can be resolved by double-checking the resources/views folder and the file extensions.

Difference Between {{\$slot}} and @yield

@yield:

- @yield is used to define a section that can be replaced by a view that extends the layout. Typically used for content areas where each page will provide its own content.

{{ \$slot }}:

- {{ \$slot }} is used in Blade components. It is a placeholder that is replaced by the content passed to the component when it is used.

Basically, @yield is used in layout files for defining sections that individual views can fill in and typically for layouts is more general, whereas {{ \$slot }} is used in Blade components for passing dynamic content to the component.