

Submitted by  
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BSIT 3-C

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# IT ELEC 1

## WEB DEVELOPMENT

Submitted to  
Prof.John Paul Azore

- Part 1: Create and Register Controllers
  - Create HomeController (loads home page) and DashboardController (loads dashboard, feed, or equivalent pages).
  - Register controllers in routes to link methods to URLs.
  - You may create and register more controllers if needed.
- Part 2: Assign Controllers to Routes
  - Use middleware (e.g., authentication) to protect specific routes and controllers.
  - Test routes (e.g. /, /dashboard) to ensure proper page loading.
- Part 3: Controllers with Parameters
  - Modify DashboardController to accept dynamic parameters (e.g., user ID).
  - Test parameterized routes to load user-specific data.
- Part 4: Documentation (Individual)
  - Take screenshots of controllers, routes, and rendered pages.
  - Write brief explanations of controller logic, parameter handling, and route assignments.

## DOCUMENTATION

I have created new middleware named DashboardController & Home Controller

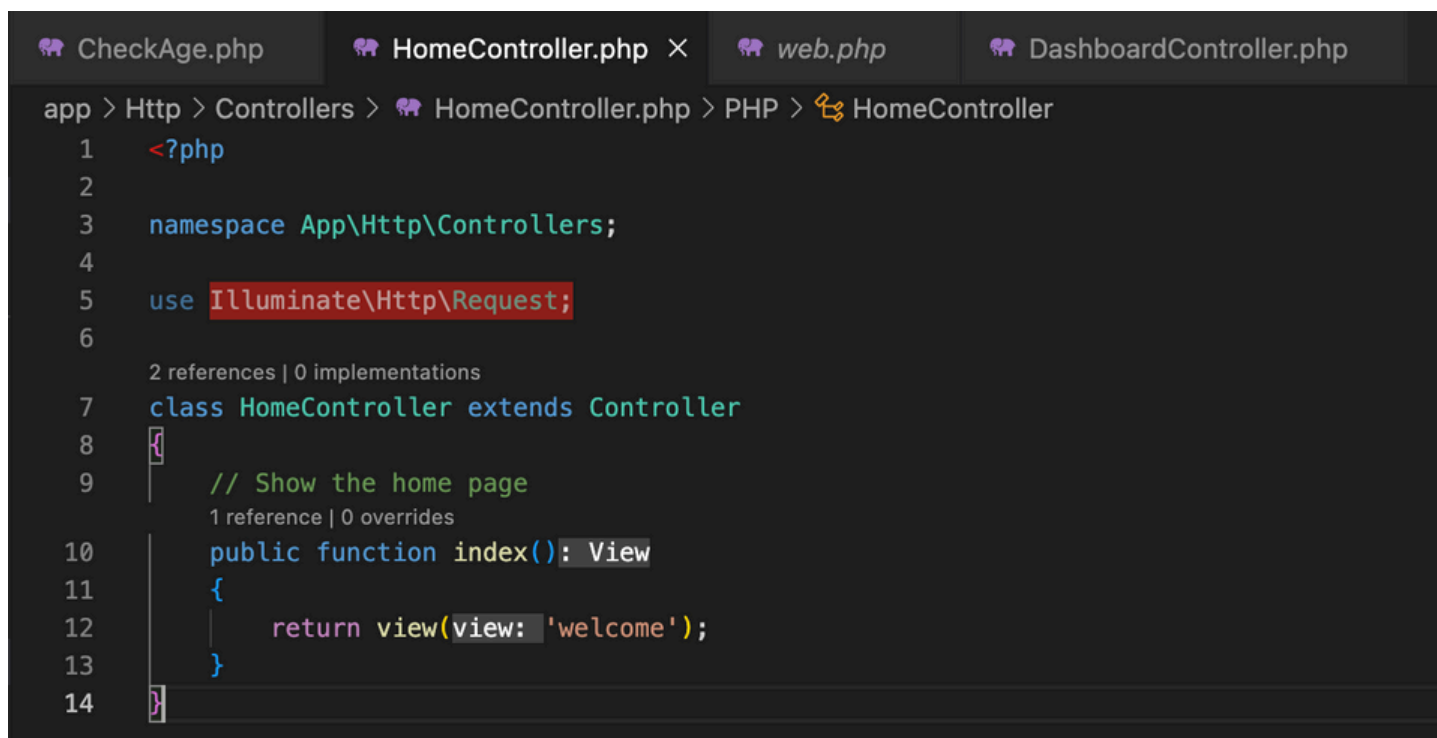
```

• (base) elainemaebertiz@Elaines-Air FinalsActivities % php artisan make:controller DashboardController
  INFO Controller [app/Http/Controllers/DashboardController.php] created successfully.

• (base) elainemaebertiz@Elaines-Air FinalsActivities % php artisan make:controller HomeController
  INFO Controller [app/Http/Controllers/HomeController.php] created successfully.

```

app/Http/Controllers/HomeController



```

app > Http > Controllers > HomeController.php > PHP > HomeController
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class HomeController extends Controller
8  {
9      // Show the home page
10     public function index(): View
11     {
12         return view(view: 'welcome');
13     }
14 }

```

It is responsible for rendering the home page. When users visit the home route, the controller's index method is invoked to display the age validation form.

## app/Http/Controllers/DashboardController

```
CheckAge.php × HomeController.php web.php DashboardController.php
app > Http > Controllers > HomeController.php > PHP > HomeController
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  2 references | 0 implementations
8  class HomeController extends Controller
9  {
10     // Show the home page
11     1 reference | 0 overrides
12     public function index(): View
13     {
14         return view(view: 'welcome');
```

It manages the dashboard interface, which is tailored to individual users. It requires a user ID to present personalized content, enhancing user engagement.

## app/Http/Controllers/CheckAge

```
CheckAge.php × HomeController.php DashboardController.php dashboard.blade.php
app > Http > Middleware > CheckAge.php > PHP > CheckAge
9  class CheckAge
10 {
11     0 references | 0 overrides
12     public function handle(Request $request, Closure $next): Response
13     {
14         $age = $request->query(key: 'age');
15
16         if ($age && $age < 18) {
17             return redirect()->route(route: 'access.denied');
18         }
19
20         if ($age && $age >= 18) {
21             return redirect()->route(route: 'dashboard.user');
22         }
23
24         return $next($request);
25     }
26 }
```

It validate user age. It checks the age parameter from the URL and determines access rights. Users aged 18 and above are granted access to the dashboard, while those under 18 are redirected to an access denied page, ensuring compliance with age restrictions.

```
CheckAge.php HomeController.php DashboardController.php dashboard.blade.php
resources > views > dashboard.blade.php
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Dashboard</title>
7  </head>
8  <body>
9      <h1>Welcome, {{ $username }}.</h1>
10 </body>
11 </html>
12
```

Display the Dashboard with the username

## Display the Homepage

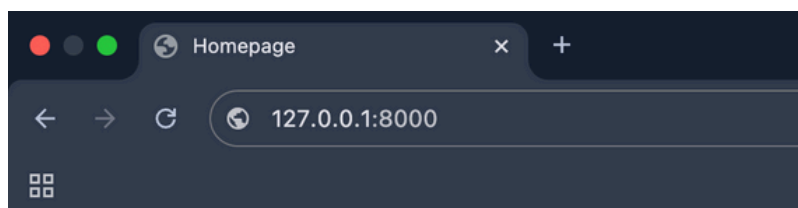
```
resources > views > welcome.blade.php
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Homepage</title>
7 </head>
8 <body>
9     <h1>Welcome in the Homepage</h1>
10 </body>
11 </html>
```

## Route

```
routes > web.php
1 <?php
2
3 use Illuminate\Support\Facades\Route;
4 use App\Http\Controllers\HomeController;
5 use App\Http\Controllers\DashboardController;
6 use App\Http\Middleware\CheckAge;
7
8 // Home page route with CheckAge middleware
9 Route::get(uri: '/', action: [HomeController::class, 'index'])
10     ->middleware(middleware: CheckAge::class)
11     ->name(name: 'home');
12
13 // Dashboard routes with 'dashboard' prefix
14 Route::prefix(prefix: 'dashboard')->group(callback: function (): void {
15     // Dashboard main page
16     Route::get(uri: '/', action: [DashboardController::class, 'index'])
17         ->name(name: 'dashboard.index');
18
19     // User-specific dashboard
20     Route::get(uri: '/user/{userId}', action: [DashboardController::class, 'show'])
21         ->name(name: 'dashboard.user');
22 });
23
24 // Access Denied route
25 Route::get(uri: '/access-denied', action: function (): View {
26     return view(view: 'access-denied');
27 })->name(name: 'access.denied');
28
```

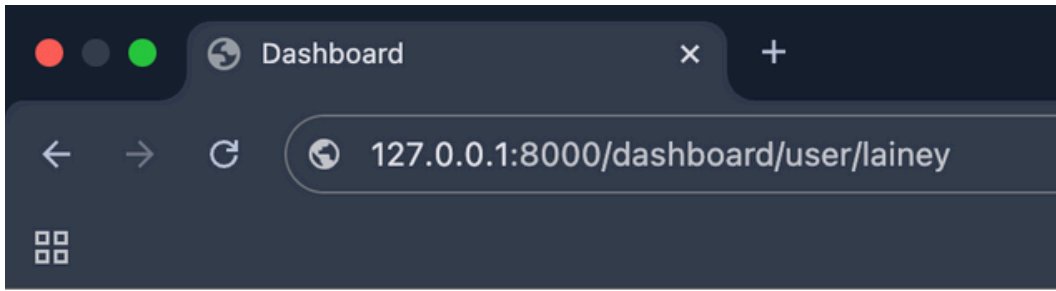
The routing structure defined in `routes/web.php` outlines the application's URL endpoints. The home page (`/`) is protected by the `CheckAge` middleware, and dashboard routes are organized under a common prefix for clarity. Additionally, an access denied route is available for users who do not meet the age criteria.

## RESULT



## Welcome in the Homepage

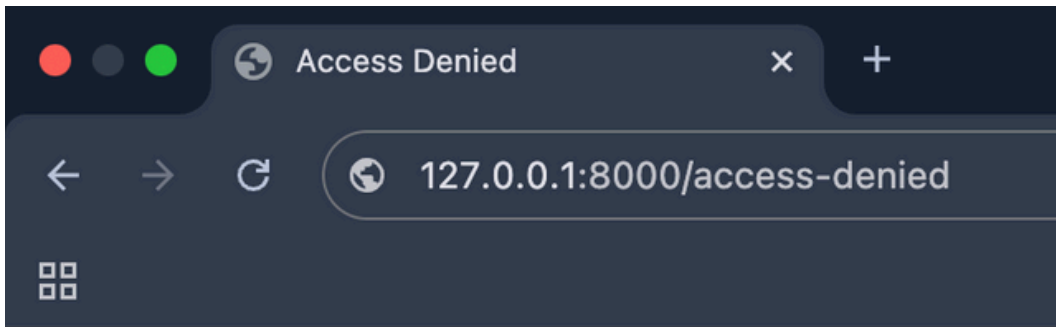
The home page of our website allows users to validate their age through a query parameter. If a user accesses `localhost:8000/?age=21`, they are redirected to their dashboard, while `localhost:8000/?age=17` leads to an access denied page.



# User Dashboard

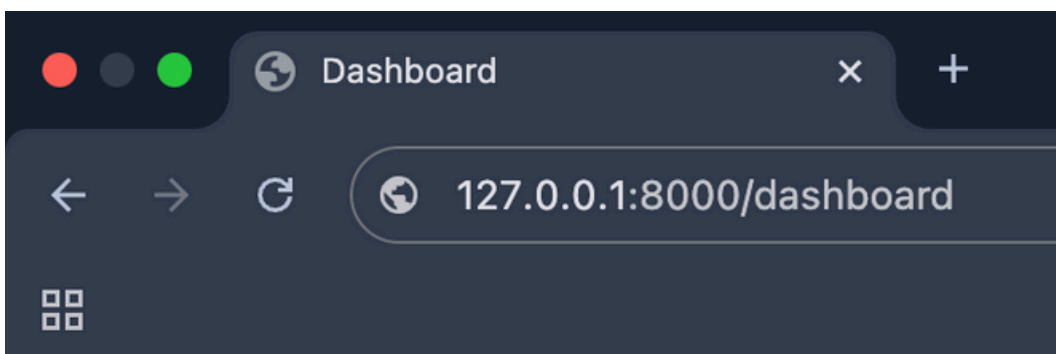
Welcome, laineey

Users aged 18 or older are redirected to the dashboard with the necessary user ID parameter, which dynamically displays a personalized greeting, such as "Welcome, laineey." Conversely, users under 18 or without a valid age parameter are redirected to an access denied page, ensuring restricted content is protected.



# Access Denied

The CheckAge middleware validates the age in incoming requests, redirecting users under 18 to the access denied page and allowing eligible users to access the dashboard.



# User Dashboard

Welcome, Elaine

The dashboard page requires a user ID parameter (\$userId) to be passed. Once provided, it dynamically displays a personalized greeting, such as "Welcome, Elaine," creating a tailored experience for each user. This page serves as a central hub where users can access their details and interact with the application based on their unique user ID.