



Bicol University  
College of Science  
Legazpi City, Albay



# It Elect. 1 - Web Development 1 **LAB 5**

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BSIT - 3C



# PART 1: CREATE AND REGISTER CONTROLLERS

## HomePageController.php

```
Group_2_Lab5_WD-master > app > Http > Controllers > HomePageController.php
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class HomePageController extends Controller
8 {
9     public function index($username = 'Guest')
10    {
11        return view('homepage', ['username' => $username]);
12    }
13
14    public function accessDenied()
15    {
16        return view('accessDenied');
17    }
18 }
```

- **index(\$username = 'Guest')** method: This method loads the homepage. It accepts a parameter called \$username, which is passed to the view as an array. If no username is provided, it defaults to 'Guest'.
- **accessDenied()** method: This method displays an accessDenied view when a user doesn't meet certain requirements, such as age limits or missing necessary information.

## MenuController.php

```
Group_2_Lab5_WD-master > app > Http > Controllers > MenuController.php
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class MenuController extends Controller
8 {
9     public function index($username)
10    {
11        return view('menu', ['username' => $username]);
12    }
13 }
14
```

- **index(\$username)** method: This controller method accepts a dynamic parameter called \$username and passes it to the corresponding view (like menu, about us, or contact us). This allows each view to show personalized content based on the username provided in the URL.

# PART 1: CREATE AND REGISTER CONTROLLERS

## LoginController.php

```
(LoginController.php)
Group_2_Lab5_WD-master > app > Http > Controllers > LoginController.php
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class LoginController extends Controller
8 {
9     public function goTologin($userId = null)
10    {
11        $username = 'Guest';
12
13        // If a user ID is provided, fetch or customize data for that user
14        if ($userId) {
15            // Placeholder logic; in a real app, fetch user info from a database.
16            $username = "User{$userId}";
17        }
18
19        return view('goTologin', ['username' => $username])->with('hideNavAndFooter', true);
20    }
21
22    public function submit(Request $request)
23    {
24        $request->validate([
25            'username' => 'required|alpha'
26        ], [
27            'username.alpha' => 'The username should only contain alphabetic characters.',
28            'username.required' => 'The username field is required.'
29        ]);
30
31        $username = $request->input('username', 'Guest');
32        return redirect("/homepage/$username");
33    }
34 }
```

- The return view('goTologin', ['username' => \$username])->with('hideNavAndFooter', true); method displays the login page. It allows the user to log in as either a guest or a specific user. If a \$userId is provided, it sets a personalized username; otherwise, it defaults to 'Guest'.
- The submit(Request \$request) method processes the form from the login page. It checks if the username contains only letters. If the username is valid, it redirects the user to the homepage with that username.

## RestrictedAreaController.php

```
Group_2_Lab5_WD-master > app > Http > Controllers > RestrictedAreaController.php
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class RestrictedAreaController extends Controller
8 {
9     public function index($username)
10    {
11        return view('restrictedArea', ['username' => $username]);
12    }
13 }
14 }
```

- The index(\$username) controller loads the restricted area page. It takes a dynamic \$username parameter to show personalized content in the restrictedArea view.

# PART 1: CREATE AND REGISTER CONTROLLERS

## AboutUsController.php

```
 AboutUsController.php X  
Group_2_Lab5_WD-master > app > Http > Controllers > AboutUsController.php  
1 <?php  
2  
3 namespace App\Http\Controllers;  
4  
5 use Illuminate\Http\Request;  
6  
7 class AboutUsController extends Controller  
8 {  
9     public function index($username)  
10    {  
11        return view('aboutus', ['username' => $username]);  
12    }  
13 }  
14
```

- This Controller uses the index(\$username) method to load the **About Us** page, passing the provided username to the aboutus view for personalized content.

## ContactUsController.php

```
 ContactUsController.php X  
Group_2_Lab5_WD-master > app > Http > Controllers > ContactUsController.php  
1 <?php  
2  
3 namespace App\Http\Controllers;  
4  
5 use Illuminate\Http\Request;  
6  
7 class ContactUsController extends Controller  
8 {  
9     public function index($username)  
10    {  
11        return view('contactus', ['username' => $username]);  
12    }  
13 }
```

- The ContactUsController class has an index method that accepts a \$username parameter and returns the contactus view. This view uses the \$username data to display personalized content, like a welcome message or user-specific details, on the Contact Us page.

## PART 1: CREATE AND REGISTER CONTROLLERS

### HomePageController.php

```
Group_2_Lab5_WD-master > app > Http > Controllers > 📄 HomePageController.php
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class HomePageController extends Controller
8  {
9      public function index($username = 'Guest')
10     {
11         return view('homepage', ['username' => $username]);
12     }
13
14     public function accessDenied()
15     {
16         return view('accessDenied');
17     }
18 }
```

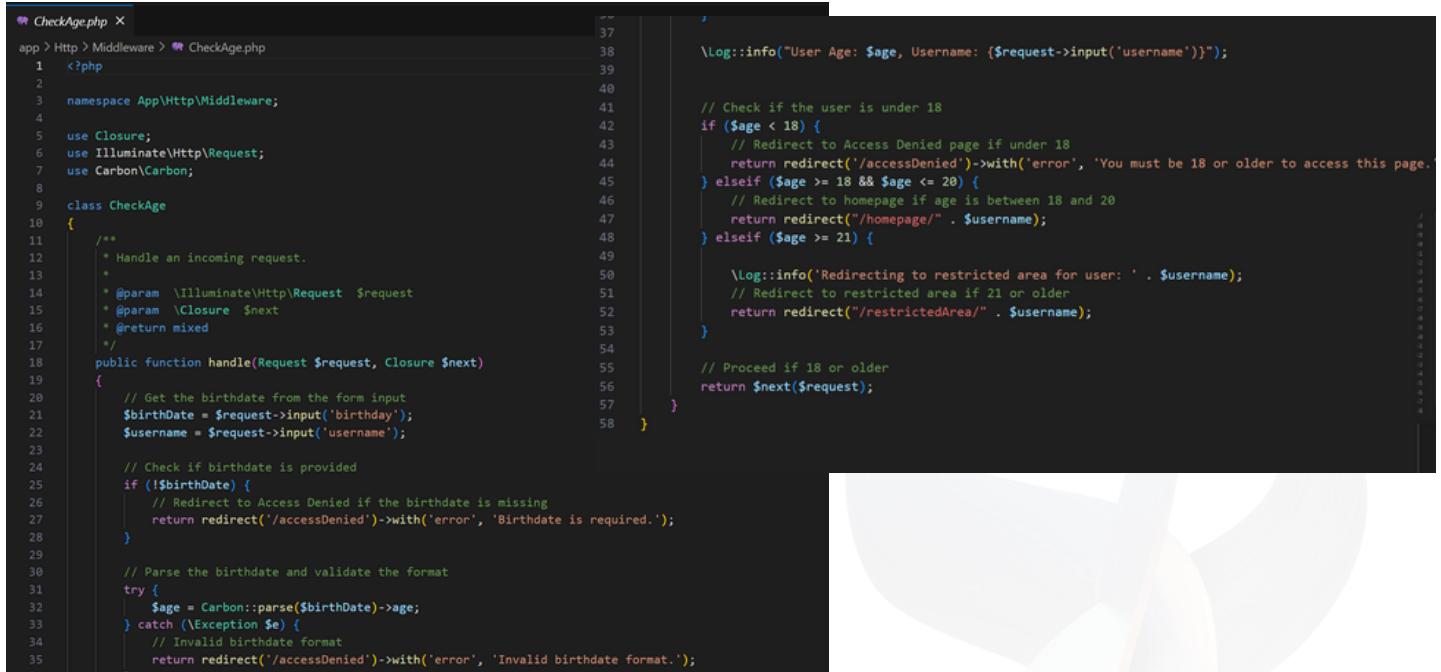
- **index(\$username = 'Guest')** method: This method loads the homepage. It accepts a parameter called \$username, which is passed to the view as an array. If no username is provided, it defaults to 'Guest'.
- **accessDenied()** method: This method displays an accessDenied view when a user doesn't meet certain requirements, such as age limits or missing necessary information.

```
Group_2_Lab5_WD-master > app > Http > Controllers > 📄 MenuController.php
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class MenuController extends Controller
8  {
9      public function index($username)
10     {
11         return view('menu', ['username' => $username]);
12     }
13 }
14
```

- **index(\$username)** method: This controller method accepts a dynamic parameter called \$username and passes it to the corresponding view (like menu, about us, or contact us). This allows each view to show personalized content based on the username provided in the URL.

## PART 2: ASSIGNING ROUTE TO CONTROLLER

### Middleware | CheckAge.php

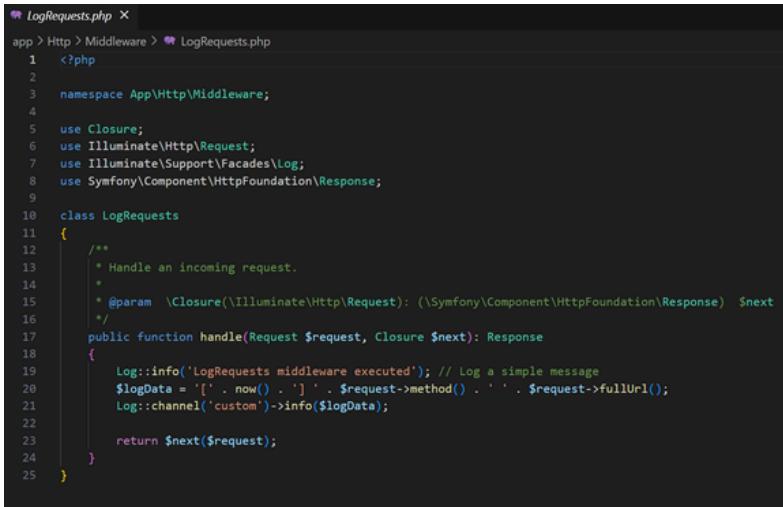


```
CheckAge.php
app > Http > Middleware > CheckAge.php
1 <?php
2
3 namespace App\Http\Middleware;
4
5 use Closure;
6 use Illuminate\Http\Request;
7 use Carbon\Carbon;
8
9 class CheckAge
10 {
11     /**
12      * Handle an incoming request.
13      *
14      * @param \Illuminate\Http\Request $request
15      * @param \Closure $next
16      * @return mixed
17      */
18     public function handle(Request $request, Closure $next)
19     {
20         // Get the birthdate from the form input
21         $birthdate = $request->input('birthday');
22         $username = $request->input('username');
23
24         // Check if birthdate is provided
25         if (!$birthdate) {
26             // Redirect to Access Denied if the birthdate is missing
27             return redirect('/accessDenied')->with('error', 'Birthdate is required.');
28         }
29
30         // Parse the birthdate and validate the format
31         try {
32             $age = Carbon::parse($birthdate)->age();
33         } catch (\Exception $e) {
34             // Invalid birthdate format
35             return redirect('/accessDenied')->with('error', 'Invalid birthdate format.');
36
37         // Log user information
38         \Log::info("User Age: $age, Username: {$request->input('username')}");
39
40         // Check if the user is under 18
41         if ($age < 18) {
42             // Redirect to Access Denied page if under 18
43             return redirect('/accessDenied')->with('error', 'You must be 18 or older to access this page.');
44         } elseif ($age > 18 && $age <= 20) {
45             // Redirect to homepage if age is between 18 and 20
46             return redirect('/homepage/' . $username);
47         } elseif ($age >= 21) {
48
49             \Log::info('Redirecting to restricted area for user: ' . $username);
50             // Redirect to restricted area if 21 or older
51             return redirect('/restrictedArea/' . $username);
52         }
53
54         // Proceed if 18 or older
55         return $next($request);
56     }
57 }
58 }
```

The CheckAge middleware's handle(Request \$request, Closure \$next) function verifies if a user meets the age requirement to access certain pages. It determines the user's age based on their birthdate from the request and then redirects them accordingly:

- Users under **18** are redirected to an access denied page.
- Users aged **18** to **20** are redirected to the homepage.
- Users aged **21** and above are redirected to a restricted area.
- If none of these conditions apply, the request proceeds as usual.

### Middleware | LogRequests.php



```
LogRequests.php
app > Http > Middleware > LogRequests.php
1 <?php
2
3 namespace App\Http\Middleware;
4
5 use Closure;
6 use Illuminate\Http\Request;
7 use Illuminate\Support\Facades\Log;
8 use Symfony\Component\HttpFoundation\Response;
9
10 class LogRequests
11 {
12     /**
13      * Handle an incoming request.
14      *
15      * @param \Closure(\Illuminate\Http\Request): (\Symfony\Component\HttpFoundation\Response) $next
16      */
17     public function handle(Request $request, Closure $next): Response
18     {
19         Log::info('LogRequests middleware executed'); // Log a simple message
20         $logData = '[' . now() . ']' . $request->method() . ' ' . $request->fullUrl();
21         Log::channel('custom')->info($logData);
22
23         return $next($request);
24     }
25 }
```

The LogRequest middleware's handle(Request \$request, Closure \$next) function logs every incoming HTTP request, capturing its method and full URL. This helps with debugging and monitoring user activity in the application.

## PART 2: ASSIGNING ROUTE TO CONTROLLER

HTTP | Kernel.php

```
Kernel.php X
app > Http > Kernel.php
1 <?php
2
3 namespace App\Http;
4
5 use Illuminate\Foundation\Http\Kernel as HttpKernel;
6
7 class Kernel extends HttpKernel
8 {
9     protected $middleware = [
10         // Global HTTP middleware
11         \App\Http\Middleware\LogRequests::class, // Register LogRequests as global middleware
12     ];
13
14     protected $middlewareGroups = [
15         'web' => [
16             \App\Http\Middleware\EncryptCookies::class,
17             \Illuminate\Cookie\Middleware\AddQueuedCookiesToResponse::class,
18             \Illuminate\Session\Middleware\StartSession::class,
19             \App\Http\Middleware\CheckAge::class, // Add CheckAge to web middleware group
20         ],
21
22         'api' => [
23             'throttle:api',
24             \Illuminate\Routing\Middleware\SubstituteBindings::class,
25         ],
26     ];
27
28     protected $routeMiddleware = [
29         'check.age' => \App\Http\Middleware\CheckAge::class, // Register CheckAge middleware
30     ];
31 }
```

The `LogRequests` middleware is globally registered, meaning it runs on every request. Meanwhile, the `CheckAge` middleware is part of the `web` middleware group, ensuring age checks are only enforced on routes within that group.

Middleware | LogRequests.php

```
routes > web.php
1  <?php
2
3  use Illuminate\Support\Facades\Route;
4  use App\Http\Middleware\LogRequests;
5  use App\Http\Middleware\CheckAge;
6  use App\Http\Controllers\HomePageController;
7  use App\Http\Controllers\AboutUsController;
8  use App\Http\Controllers\MenuController;
9  use App\Http\Controllers>ContactUsController;
10 use App\Http\Controllers\LoginController;
11 use App\Http\Controllers\RestrictedAreaController;
12
13 Route::middleware(['web', LogRequests::class])->group(function () {
14
15     // Login route at the root URL "/"
16     Route::get('/', [LoginController::class, 'goToLogin'])->name('goToLogin');
17
18     // Form submission route for homepage with username validation
19     Route::post('/homepage', [LoginController::class, 'submit']);
20
21     // Homepage, About Us, Menu, Contact Us routes with dynamic username
22     Route::get('/homepage/{username}', [HomePageController::class, 'index'])->name('homepage');
23     Route::get('/aboutus/{username}', [AboutUsController::class, 'index'])->name('aboutus');
24     Route::get('/menu/{username}', [MenuController::class, 'index'])->name('menu');
25     Route::get('/contactus/{username}', [ContactUsController::class, 'index'])->name('contactus');
26
27     // Route for restricted area with dynamic username
28     Route::get('/restrictedArea/{username}', [RestrictedAreaController::class, 'index'])->name('restrictedArea');
29
30     // Middleware for age verification, restricted access, or homepage access post-login
31     Route::post('/homepage', [HomePageController::class, 'index'])->middleware(CheckAge::class);
32
33     // Access Denied route
34     Route::get('/accessDenied', [HomePageController::class, 'accessDenied'])->name('accessDenied');
35 });
36
37
38
39
40
41
42
43
44
45
46
```

All routes within the Route group are secured by both the web and LogRequests middleware, ensuring consistent logging and session management for web-based routes.

### **Route Definitions:**

- The root URL (/) triggers the `goToLogin()` method of `LoginController` for user login.
  - POST routes (e.g., /homepage) handle form submissions and redirect users based on their input.
  - GET routes (e.g., /homepage/{username}, /aboutus/{username}, /menu/{username}) load various pages like the homepage, about us, and menu, using the username as a dynamic parameter.
  - The /restrictedArea/{username} route opens a restricted page, while /accessDenied displays an access denied message for users facing restrictions.

## PART 3: CONTROLLERS WITH PARAMETERS

### LOGIN CONTROLLER

```
public function goToLogin($userId = null)
{
    $username = 'Guest';

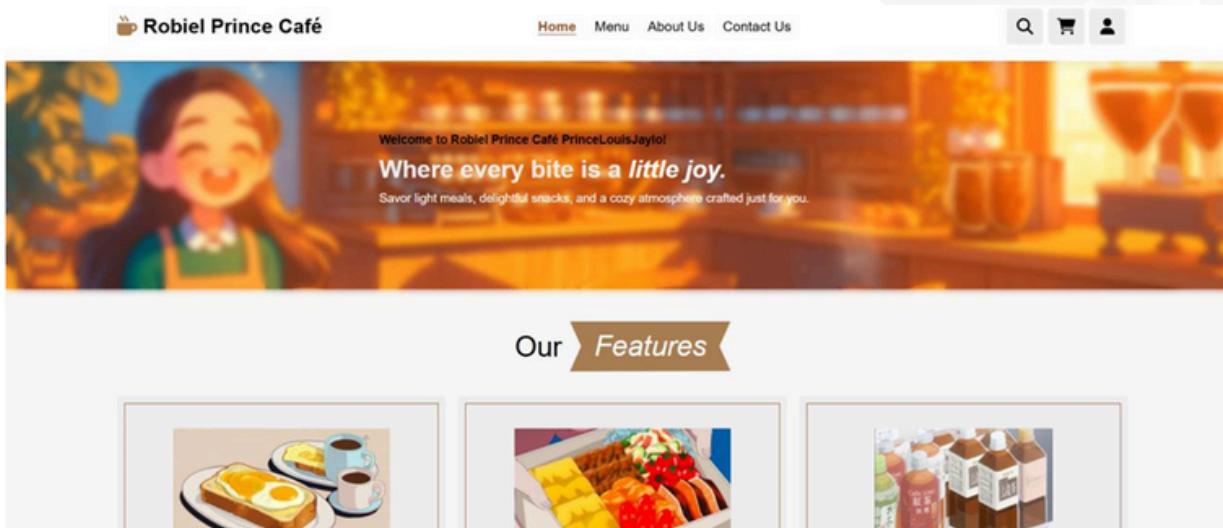
    // If a user ID is provided, fetch or customize data for that user
    if ($userId) {
        // Placeholder logic; in a real app, fetch user info from a database.
        $username = "User{$userId}";
    }

    return view('goToLogin', ['username' => $username])->with('hideNavAndFooter', true);
}
```

The LoginController handles the \$userId parameter as follows:

- If \$userId is given, it generates a dynamic username (e.g., User{\$userId}) to simulate a user-specific response.
- If not, it defaults to using "Guest" as the username.

Web.php with the homepage route controller:



```
// Homepage, About Us, Menu, Contact Us routes with dynamic username
Route::get('/homepage/{username}', [HomePageController::class, 'index'])->name('homepage');
```

This route maps to the index method of HomePageController, using the {username} parameter to provide dynamic access. This allows users to visit URLs like /homepage/PrinceLouisJaylo or /homepage/Guest to load personalized pages.

### CONTROLLER LOGIC

1. **HomePageController:** Displays the homepage and restricts access if users don't meet the age requirements.
2. **MenuController:** Loads the menu page for a specific username.

## PART 3: CONTROLLERS WITH PARAMETERS

3. **AboutUsController:** Displays the About Us page for a specified username.
4. **ContactUsController:** Loads the Contact Us page for a given username.
5. **LoginController:** Manages user login, supporting login with a username or as a guest.
6. **RestrictedAreaController:** Provides access to a restricted area for authorized users.

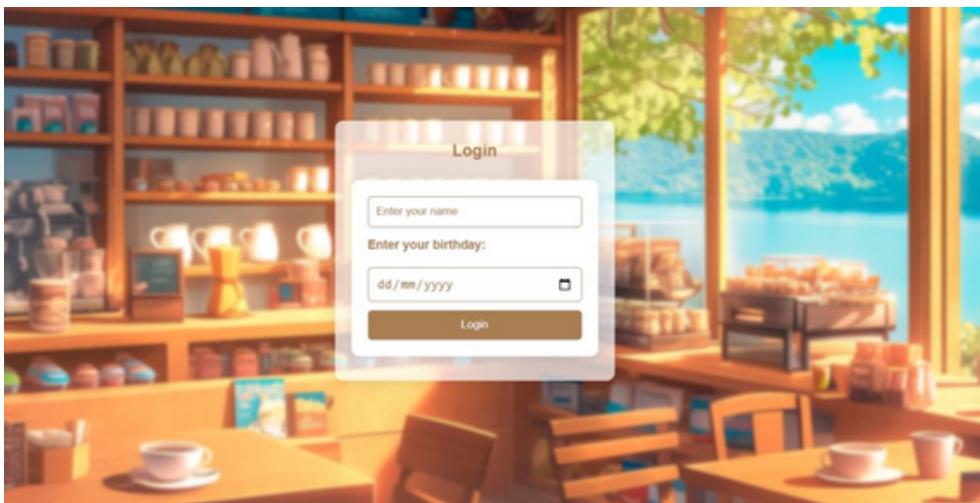
### Parameter Handling:

- **Username:** Personalizes the app by displaying greetings (e.g., "Welcome, John") on each page.
- **User ID:** In the login process, it generates a default username (e.g., "User123") if no username is provided.
- **Age Check:** The CheckAge middleware validates the user's age before granting access to specific pages.

### ROUTE ASSIGNMENT:

- **Basic Routes:** Each page (e.g., /homepage, /menu) is linked to a controller method that loads the correct view.
- **Middleware:** Middleware like CheckAge is applied to control access based on user details (e.g., age).
- **Dynamic Routes:** Routes such as /homepage/{username} allow dynamic loading of user-specific pages without creating separate routes for each user.

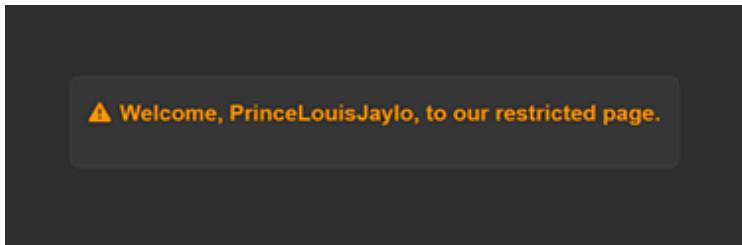
Rendered Web Pages: goTologin.blade.php



The user can input their name and birthdate. If the birthdate is 2003 or earlier, they'll be shown a restricted page but will still have access to other sections like the menu. If the birthdate is 2007 or later, they'll be redirected to an Access Denied page, accompanied by a message that says, "You must be 18 or older," along with a "Back to login" option. For birthdates between 2004 and 2006, the user will be taken to the homepage to explore without restrictions.

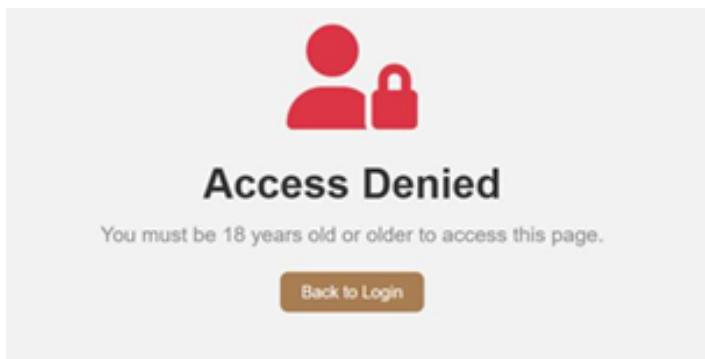
## PART 3: CONTROLLERS WITH PARAMETERS

restrictedArea.blade.php



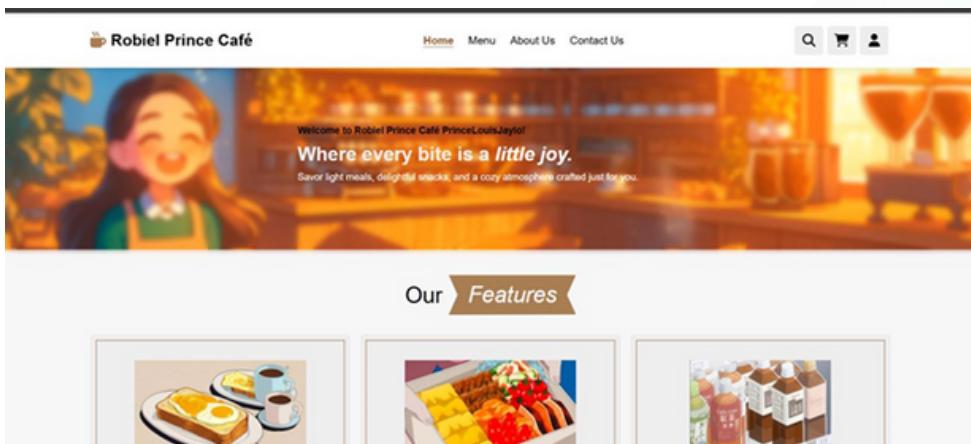
In the restrictedArea.blade.php file, when I entered **2003** as the birthdate, I was redirected to the "Welcome to our restricted page" message, but I was still able to browse other pages, such as the menu.

accessDenied.blade.php



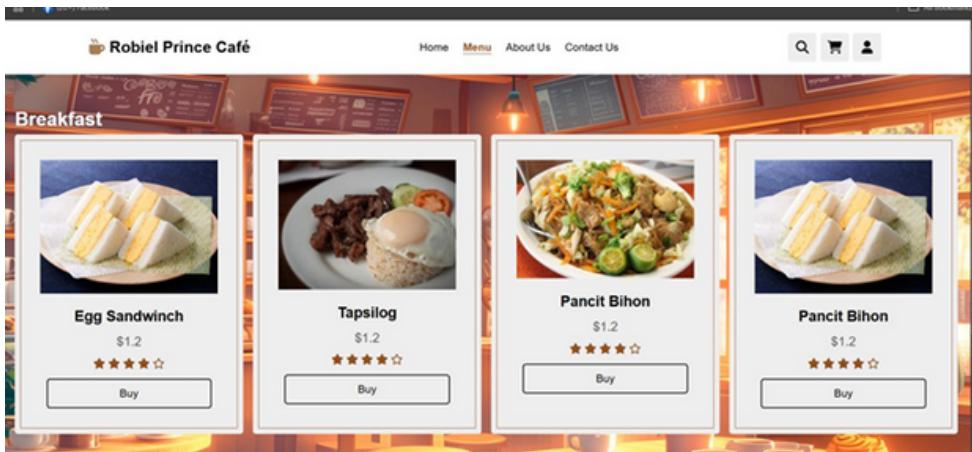
In the accessDenied.blade.php file, with a **2007** birthdate input, I was redirected to the Access Denied page, which displayed a message saying, "You must be 18 or older to access this page," along with a "Back to login" button to return to the login page. Note: The "Back to login" button is still being developed.

homepage.blade.php

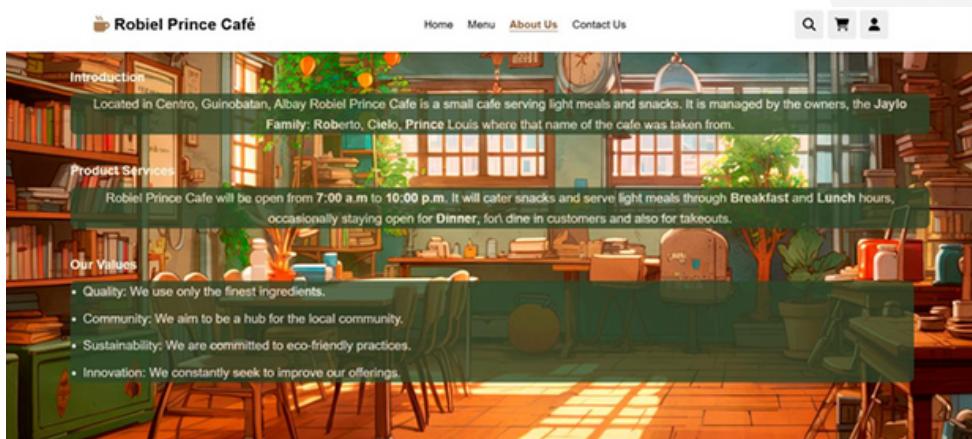


## PART 3: CONTROLLERS WITH PARAMETERS

menu.blade.php



aboutus.blade.php



contactus.blade.php

