Documentation

Part 1: Defining Basic Routes

Create a simple route that returns a view for the homepage.

The view should display a welcome message. Create additional routes that: Return a view for an "About Us" page.

Redirect from /home to / (the homepage). Display a "Contact Us" form

```
routes > \( \text{webphp} \)

\[
\text{vipup} \)

\[
\text{use Illuminate\support\Facades\Route;} \]

\[
\text{use Illuminate\support\Facades\Route;} \]

\[
\text{use Illuminate\support\Facades\Route;} \]

\[
\text{use Illuminate\support\Facades\Route;} \]

\[
\text{database.sqlite} \]

\[
\text{Route::get('/', function () { return view('home', ['message' => 'Welcome to the homepage!']);} \]

\[
\text{// Redirect from /home to / Route::get('/home', function () { return redirect()->route('home');} \]

\[
\text{// Homepage with an optional username parameter} \]

\[
\text{Route::get('/homepage/(username?)', function ($username = 'Guest') { return view('homepage', ['username' => $username]);} \]

\[
\text{// About Us page with optional username parameter} \]

\[
\text{Route::get('/about/{username?}', function ($username = 'Guest') { return view('about', ['username' => $username]);} \]

\[
\text{// Content page with optional username parameter} \]

\[
\text{Route::get('/content/(username?)', function ($username = 'Guest') { return view('about', ['username' => $username]);} \]

\[
\text{// Content page with optional username parameter} \]

\[
\text{Route::get('/content/(username')', function ($username = 'Guest') { return view('content', ['username' => $username]);} \]

\[
\text{// Contact Us page with optional username parameter} \]

\[
\text{Route::get('/contact-Us page with optional username parameter} \]

\[
\text{Route::get('/contact-Us page with optional username = 'Guest') { return view('content', ['username' => $username]);} \]

\[
\text{// Display a contact Us form} \]

\[
\text{Route::get('/contact-Us form} \]

\[
\text{Route:
```

We have defined four main routes: **home** (which is the root), homepage, about, content, and contact. Each route is specified using the **Route::get() method**, which handles HTTP GET requests. Optional username parameters are set for all routes, with the default username being 'Guest' if no username is provided.

Define a route with an optional parameter: Modify the previous route to make the username optional. If no username is provided, display a generic welcome message. Example: /user should return a view with "Welcome, Guest!". Apply regular expression constraints to the route parameters: Ensure that the username only accepts alphabetic characters (az, A-Z).

Part 2: Using Route Parameters

Define a route with a required parameter: Create a route that accepts a username parameter and displays a welcome message that includes the username. Example: /user/johndoe should return a view

```
// Route with required username parameter to display a welcome message
Route::get('/user/{username}', function ($username) {
    return view('welcomeUser', ['message' => "Welcome, $username!"]);
})->where('username', '[a-zA-Z]+')->name('welcomeUser');
```

When a user navigates to a URL such as http://127.0.0.1:8000/user/clarence, the system will redirect them to the root URL where they are prompted to either fill in their username or log in as a guest, displaying a message like "Welcome, johndoe!". Each route has an optional username parameter, so if a username isn't provided, the default 'Guest' will be used.

```
// Root / home route
Route::get('/', function () (
    return view('home', ['message' -> 'Welcome to the homepage!']);
)-name('home');

// Rodirect from /home to /
Route::get('/home', function () {
    return redirect()->route('home');
));

// Rodirect from /home to /
Route::get('/homepage', function ($isername = 'Guest') {
    return view('homepage', ['username' >> $isername'];
)->where('username', '[a-2A-2]*')->name('homepage');

// About Us page with optional username parameter
Route::get('/about/(username')-, function ($username = 'Guest') {
    return view('homepage', ['username' >> Susername]);
)->where('username', '[a-2A-2]*')->name('about');

// Content page with optional username parameter
Route::get('/content/(username')-, 'nunction ($username = 'Guest') {
    return view('content', ['username' >> $username]);
)->where('username', '[a-2A-2]*')->name('content');

// Contact Us page with optional username parameter
Route::get('/contact/username')', function ($username = 'Guest') {
    return view('contact/page');

// Contact Username', '[a-2A-2]*')->name('contact/Page');

// Display a Contact Us form
Route::get('/contact/username')

// Route with remained username narameter to display a selector');

// Brute with remained username narameter to display a selector');
```

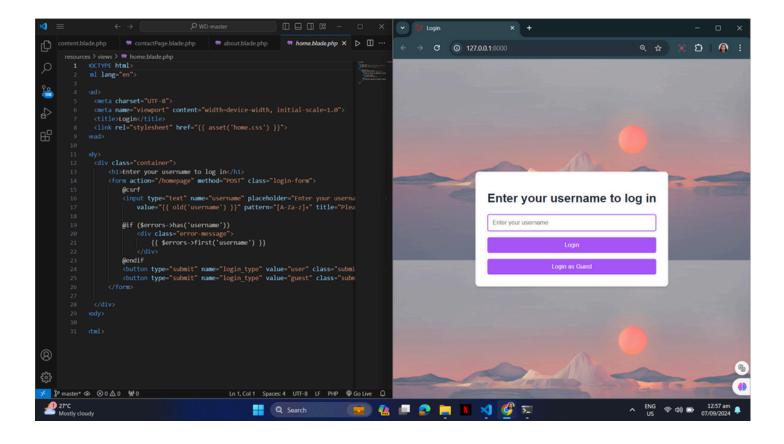
This route handles POST requests to the '/homepage' URL, which is used for processing form submissions.

On line 48, the value from the input field of the submitted form data is retrieved and stored in the `\$loginType` variable. Line 49 then checks whether `\$loginType` contains "guest" or a "username." If a username is provided, the corresponding value is retrieved and assigned to the `\$username` variable, and the user is redirected to the homepage, where a personalized "Welcome, User" message is displayed.

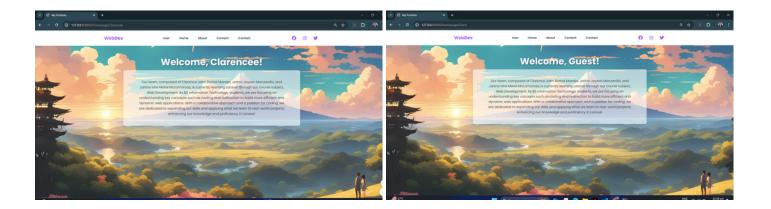
Here are the various routes that include an optional username parameter. If no username is provided, the user has two sign-in options: (1) logging in with a provided username through the form, or (2) logging in as a guest without providing a username. The route then returns the 'homepage' view with the username parameter. Additionally, the 'where' clause applies a regular expression constraint to the username, allowing only alphabetic characters (a-z, A-Z).

The GET request for `/contact-us` returns a view called `contactForm`, where the user can fill out a form to send an email.

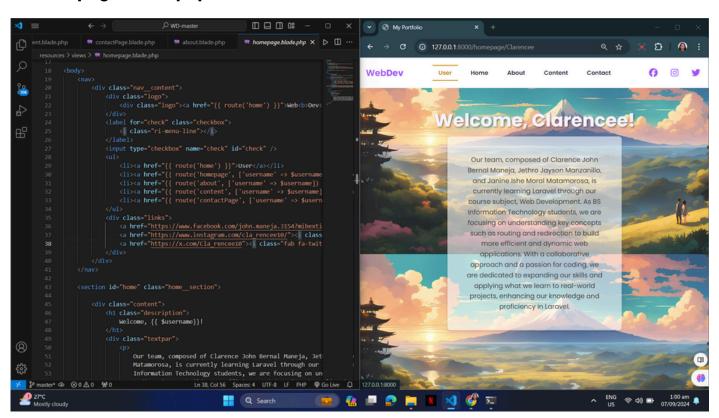
Part 3: Documentation (Individual) Take screenshots of your application runtime along with its code. Provide a detailed explanation of how your code works, highlighting the purpose of each key section.



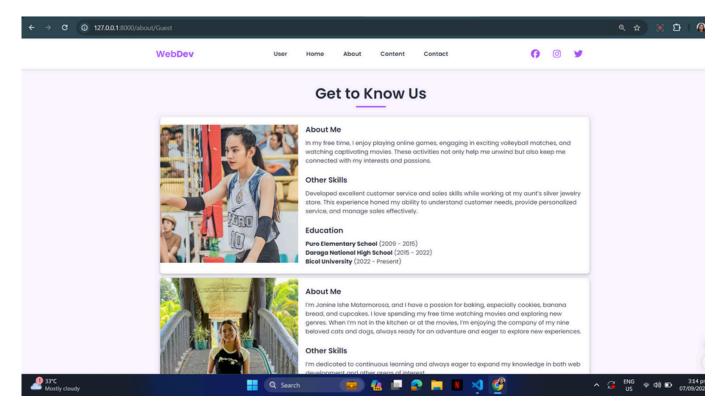
• This login form allows users to either enter their username to log in as a registered user or log in as a guest, with the form data submitted via the POST method to the `/homepage` URL. The form is protected against CSRF attacks using the `@csrf` directive, and the `old()` helper function sets the initial input value to any previously entered data. A regular expression pattern is used to validate the input, and any validation errors related to the username are handled within the form using Blade syntax.

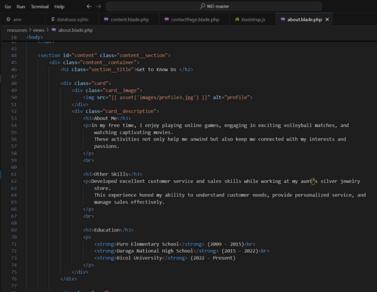


homepage.blade.php



 The code uses route helpers (lines 29 to 33) to generate URLs dynamically, ensuring easy navigation between different pages without the need to hardcode URLs. This method enhances flexibility and maintainability as the routes can be updated without modifying the entire code. Additionally, the welcome message on line 47 incorporates the user's username, personalizing the experience for each user who logs in.

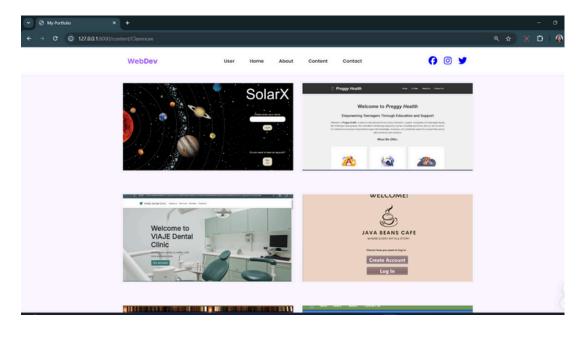




about.blade.php

 The `about.blade.php` page leverages route helpers to dynamically generate URLs for navigation, ensuring consistency across the site and eliminating the need for hardcoded URLs. The main content of the page focuses on providing detailed information about the group.

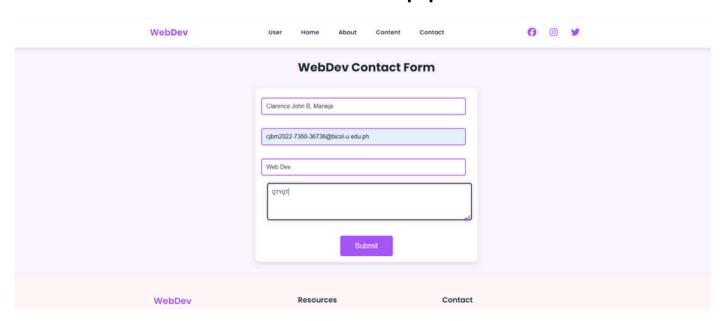
content.balde.php



```
| The tide Selection | View | Go | Run | Terminal | Help | Card | Property | Management | Property | Property | Management | Property | Management | Property | Management | Property | Management | Property | Property | Property | Management | Property |
```

Basically, this uses the same navigation as theThe navigation structure for this page is essentially the same as both that used on the homepage and the about page. Each navigation link is dynamically generated, ensuring consistency and ease of navigation across the entire website. homepage and the about page

contact.balde.php





The navigation links for the homepage, about, contents, and contact pages are consistently implemented across the site, with each URL dynamically generated based on the defined routes and any provided parameters, facilitating seamless navigation.

The form submission script enhances user interaction by capturing the form's submit event, preventing the default behavior, and retrieving input values such as name, email, subject, and message. It constructs `mailto:` link directed `itwebdev10@gmail.com`, automatically filling in the email's subject and body with the user's details. This action then triggers the default email client, pre-populated with the user's information, ready to send the message directly through the 'mailto:' link.