



**BICOL UNIVERSITY COLLEGE OF SCIENCE
LEGAZPI CITY, ALBAY**



IT Elect 1 – WEB DEVELOPMENT

DOCUMENTATION

(GROUP 5, LABORATORY 2)

SUBMITTED BY:

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BSIT – 3C

Part 1: Defining Basic Routes

1. Create a simple route that returns a view for the homepage. The view should display a welcome message.

```
web.php
routes > web.php
1 <?php
2
3 use Illuminate\Support\Facades\Route;
4
5 Route::get('/', function () {
6     return view('welcome');
7 });
8
```

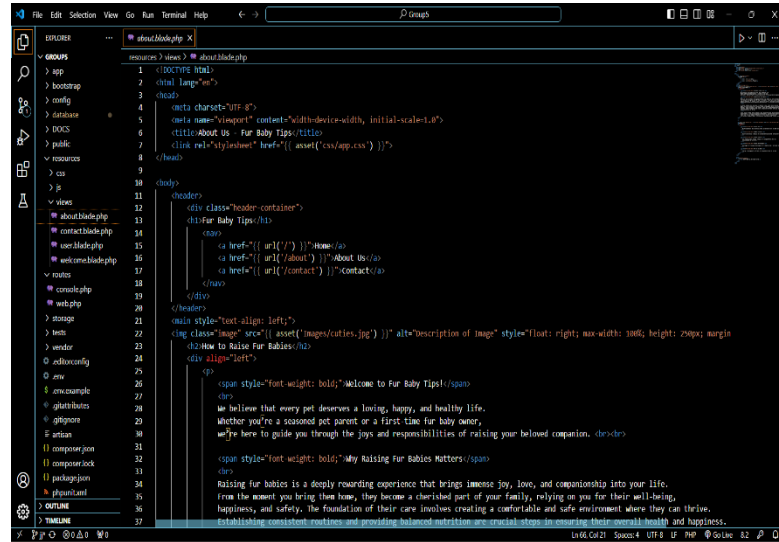
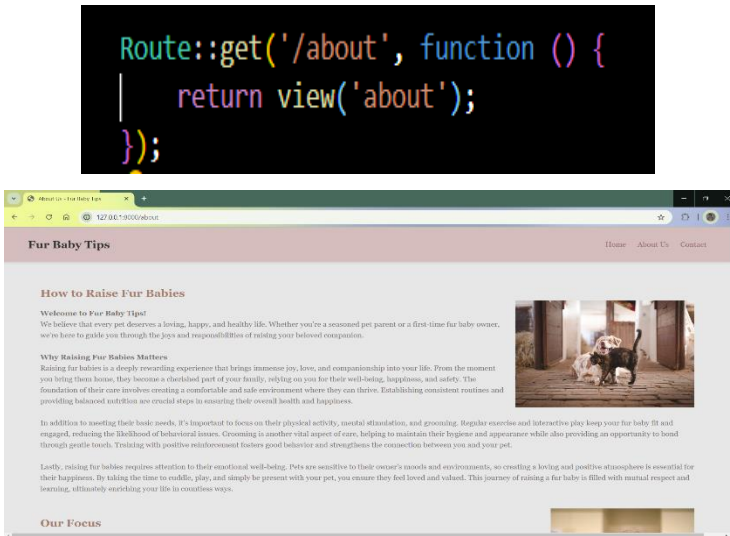
```
welcome.blade.php
resources > views > welcome.blade.php
1 <doctype html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Welcome - Fur Baby Tips</title>
7     <link rel="stylesheet" href="{{ asset('css/app.css') }}">
8 </head>
9 <body class="homepage">
10     <div class="header-container">
11         <div>Fur Baby Tips</div>
12         <div>
13             <a href="{{ url('/') }}">Home</a>
14             <a href="{{ url('/about') }}">About Us</a>
15             <a href="{{ url('/contact') }}">Contact</a>
16         </div>
17     </div>
18
19     <div class="centered-content">
20         <div class="homepage-title">Welcome to fur baby tips</div>
21         <p>Your go-to resource for all things fur babies.</p>
22         <div>
23             <input type="text" value="Enter your username" />
24             <input type="submit" value="Submit" />
25         </div>
26     </div>
27 </body>
28 </html>
```



-When you open our website, you'll see this cute welcome page with a welcome message. The code `Route::get('/', function () { return view('welcome'); });` defines a route in a Laravel application that listens for GET requests to the root URL ('/') and returns the "welcome" view. The ('/') or the ('welcome') page is also our homepage.

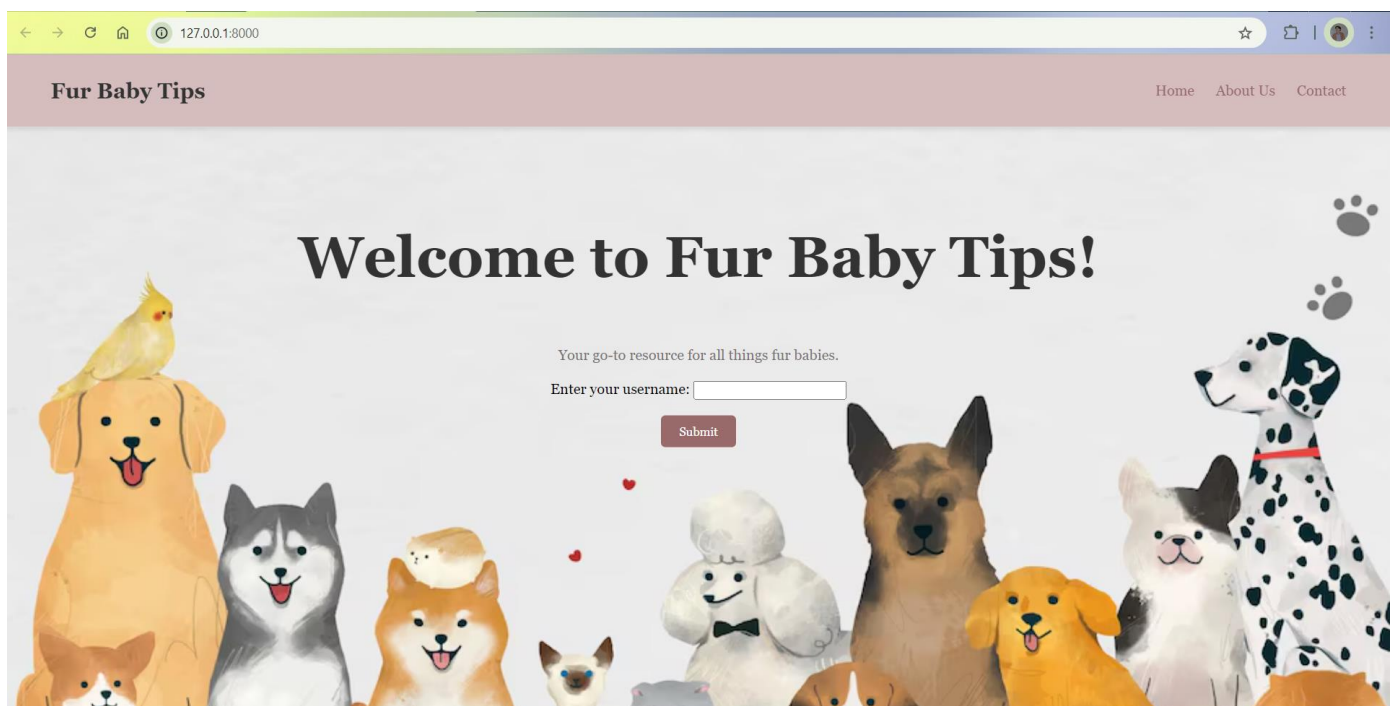
2. Create additional routes that:

- Return a view for an "About Us" page.



-The code `Route::get('/about', function () { return view('about'); });` defines a route in a Laravel application that listens for GET requests to the root URL ('/about') and returns the "about" view.

- Redirect from /home to / (the homepage).

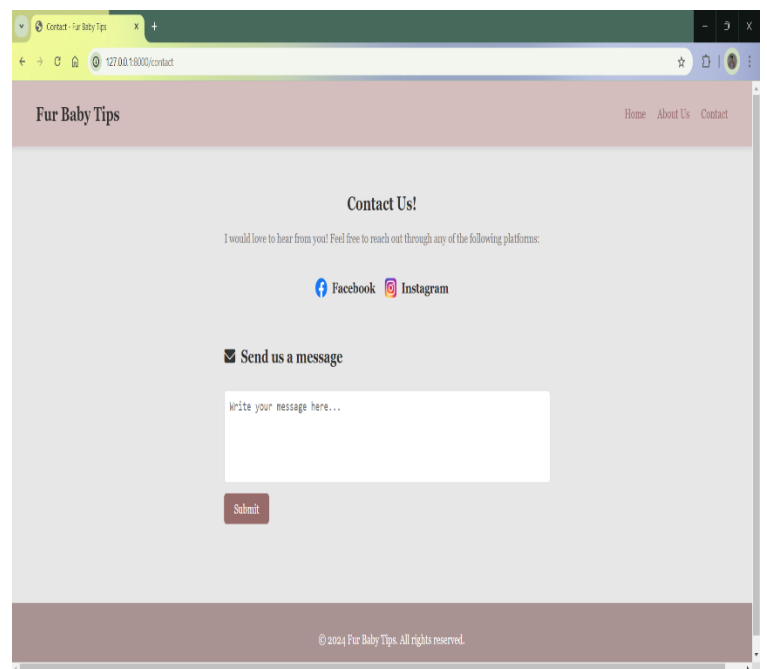


- Display a "Contact Us" form.

```

1 <!-- Contact Us -->
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <title>Contact Us</title>
6 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet">
7 </head>
8 <body class="contact-page">
9 <div class="header">
10 <div class="header-container">
11 <div>
12 <div>
13 <div>
14 <div>
15 <a href="#">Home</a>
16 <a href="#">About Us</a>
17 <a href="#">Contact Us</a>
18 </div>
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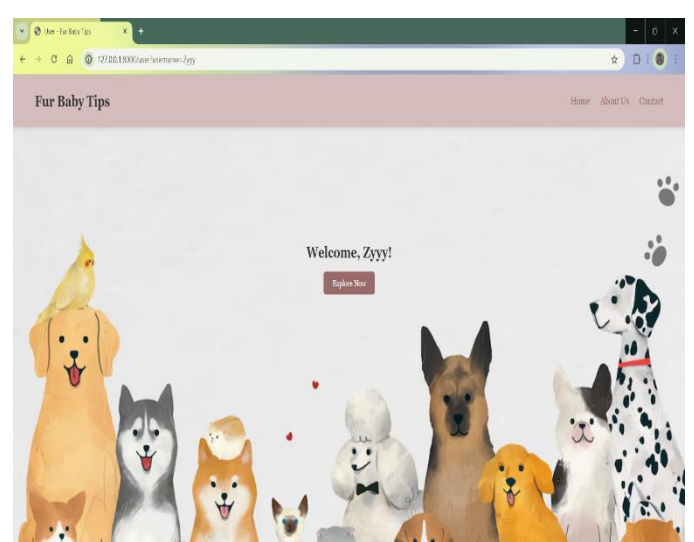
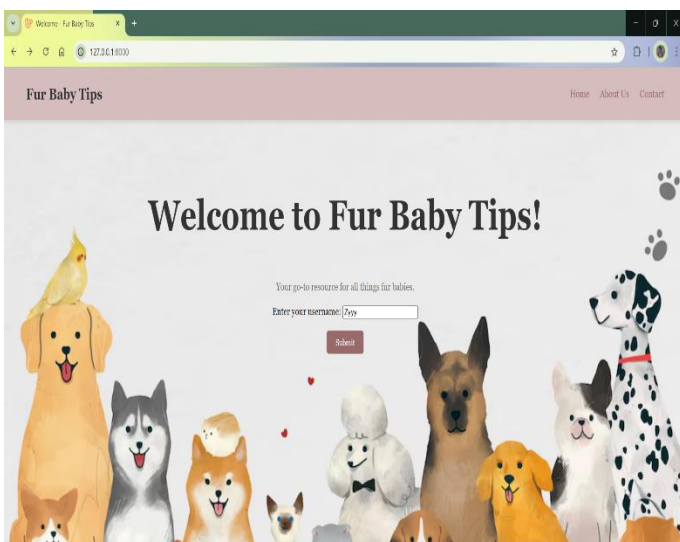
```



In this part, it displays a contact us form which the users can put and say the things or feedback about our website.

Part 2: Using Route Parameters

1. Define a route with a required parameter:
 - Create a route that accepts a username parameter and displays a welcome message that includes the username.



```

user.blade.php
resources > views > user.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>User - Fur Baby Tips</title>
7   <link rel="stylesheet" href="{{ asset('css/app.css') }}">
8 </head>
9 <body class="homepage">
10   <header>
11     <div class="header-container">
12       <h1>Fur Baby Tips</h1>
13       <nav>
14         <a href="{{ url('/') }}">Home</a>
15         <a href="{{ url('/about') }}">About Us</a>
16         <a href="{{ url('/contact') }}">Contact</a>
17       </nav>
18     </div>
19   </header>
20
21   <main class="centered-content">
22     <h1>Welcome, {{ $username }}!</h1>
23     <a href="{{ url('/about') }}">
24       <button>Explore Now</button>
25     </a>
26   </main>
27 </body>
28 </html>
29

```

```

Route::get('/user', function () {
    $username = request()->input('username', 'Guest');

    if (!preg_match('/^[A-Za-z]+$/', $username)) {
        $username = 'Guest';
    }

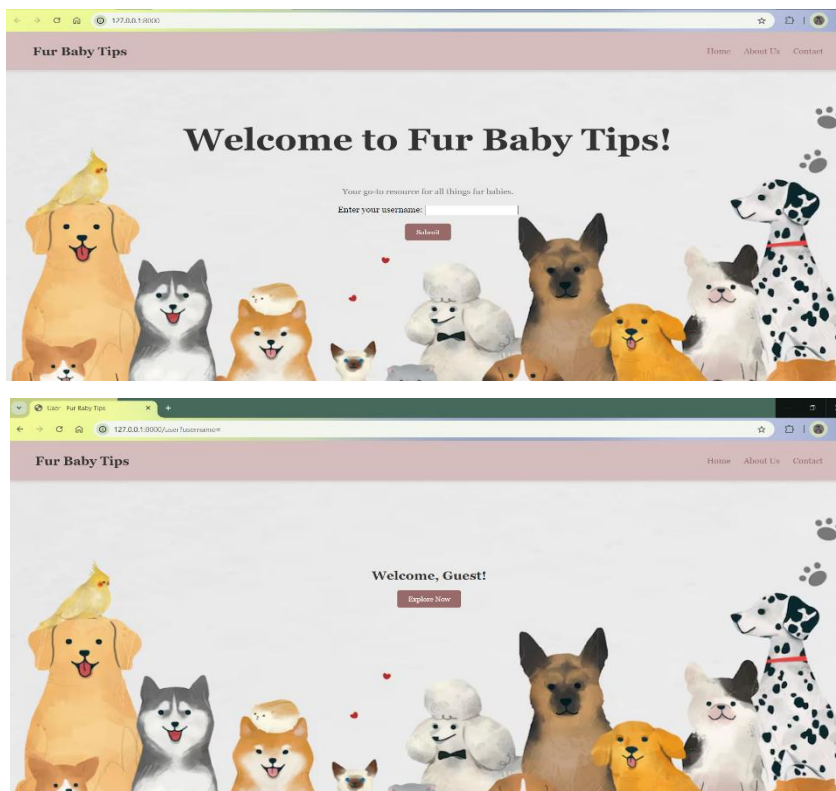
    return view('user', ['username' => $username]);
});

```

-The Route::get('/user', function () { \$username = request()->input('username', 'Guest'); responds to GET requests made to the /user URL, handling input from a form where users provide their username. It uses the request() function to retrieve the input value from the form.

2. 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.




```
Route::get('/user', function () {
    $username = request()->input('username', 'Guest');

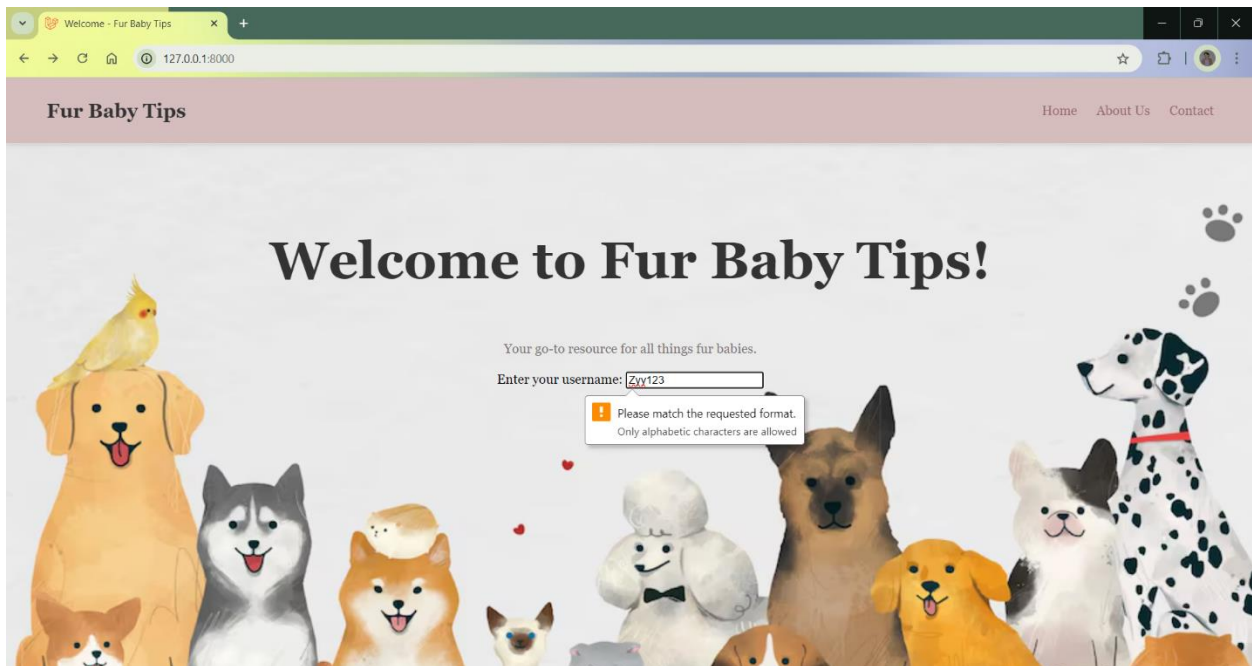
    if (!preg_match('/^[A-Za-z]+$/', $username)) {
        $username = 'Guest';
    }

    return view('user', ['username' => $username]);
});
```

-The Route::get('/user', function () { \$username = request()->input('username', 'Guest'); This code defines a route that handles GET requests to the /user URL, capturing the value of the 'username' input from the form submission. If no username is provided, it defaults to 'Guest'.

3. Apply regular expression constraints to the route parameters:

- Ensure that the username only accepts alphabetic characters (a-z, A-Z).



```
Route::get('/user', function () {
    $username = request()->input('username', 'Guest');

    if (!preg_match('/^[A-Za-z]+$/', $username)) {
        $username = 'Guest';
    }

    return view('user', ['username' => $username]);
});
```

-The line if (!preg_match('/^[A-Za-z]+\$/', \$username)) checks that the username consists only of alphabetic characters. If it contains any invalid characters (outside A-Z or a-z), it will not accept it, and you can't submit it. You can submit it once you entered letters only with any numbers or any other characters.

KEY FEATURES:

Routing: The website defines four routes (the homepage, about, contact, and user page) to show different views based on what the user wants.

Input Handling: The /user route handles the form input, to ensure that the username entered by the user is in alphabetic form and no numbers included, also it processes it accordingly.

Validation: Basic validation is applied using a regular expression to ensure that the username entered contains only letters, and if the users didn't enter anything, it will be set as the default name which is "Guest".