

```
use Illuminate\Http\Request;
```

-This will retrieve and manipulate data sent by a client to server. This included the form data, query parameters, headers, and cookies.

```
Route::get('/', function () {  
    return view('welcome', ['message' => 'Welcome to the homepage!']);  
})->name('homepage');
```

- This is the route for the homepage. This will return the “welcome.blade.php” in view with a message.

```
Route::get('/about1', function() {  
    return view('about1');  
})->name('about1');
```

-This route loads the “about1.blade.php” in view. GET request is made then it will view name about1.

```
Route::redirect('/home', "/");
```

- This route will redirects any request to “ /home” , “/” to the old home page and the updated homepage.

```
Route::get('/contact', function () {  
    return view("contact");  
})->name('contact');
```

- This route returns the “contact.blade.php” in view when GET is requested to “/contact”. This will view the contact us page.

```
Route::post('/contact/submit', function (Request $request) {  
    $username = $request->input('username');  
    return redirect()->route('user.optional', ['username' => $username]);  
})->name('user.submit');
```

- This handles the submission via POST. It will retrieve the username given by the user and redirects to the “user.optional” route, passing the username as a parameter.

```
Route::get('/user/{username}', function ($username) {  
    return view('user', ['username' => $username]);  
})->where('username', '[A-Za-z]+')->name('user.show');
```

-This route will load the “user.blade.php” in view with the “username” given by the user which serve as a parameter. It has constraint to consist only alphabetic characters only using regular expression constraint (where).

```
Route::get('/user/{username?}', function ($username = 'Guest') {
    return view('user', ['username' => $username]);
})->where('username', '[A-Za-z]+')->name('user.optional');
```

-This is an alternative route for the parameter that no username is being inputted by the user it will load as default “Guest” to the “user.blade.php”.

```
Route::middleware(['web'])->group(function () {
    Route::get('/', function () {
        return view('welcome', ['message' => 'Welcome to our Homepage!']);
    })->name('homepage');

    Route::view('/about1', 'about1')->name('about1');

    Route::redirect('/home', '/');

    Route::get('/contact', function () {
        return view('contact');
    })->name('contact');

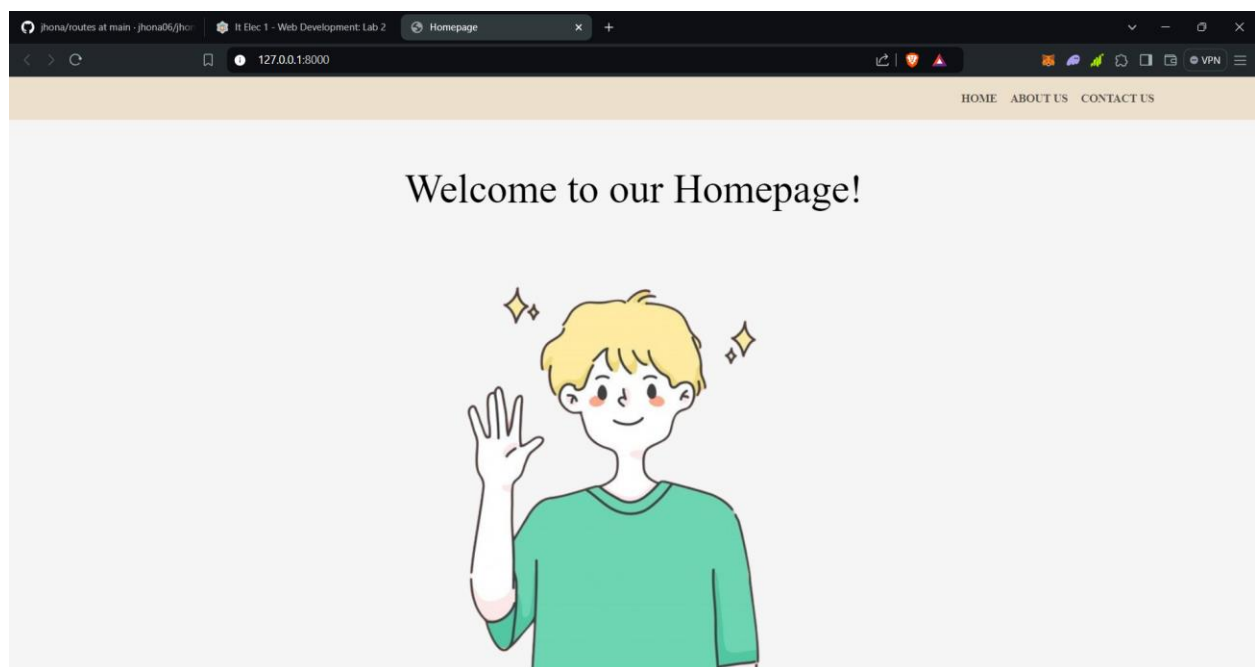
    Route::prefix('user')->group(function () {
        Route::get('/{username?}', function ($username = 'Guest') {
            return view('user', ['username' => $username]);
        })->where('username', '[A-Za-z]+')->name('user.optional');
    });
});
```

The route under “web” middleware, given the inside route is essentially duplicated and handles session, for CSRF protection and other concerns.

Realtime Application for Home page

-This will generate a message “Welcome to our Homepage” when it is being loads/open

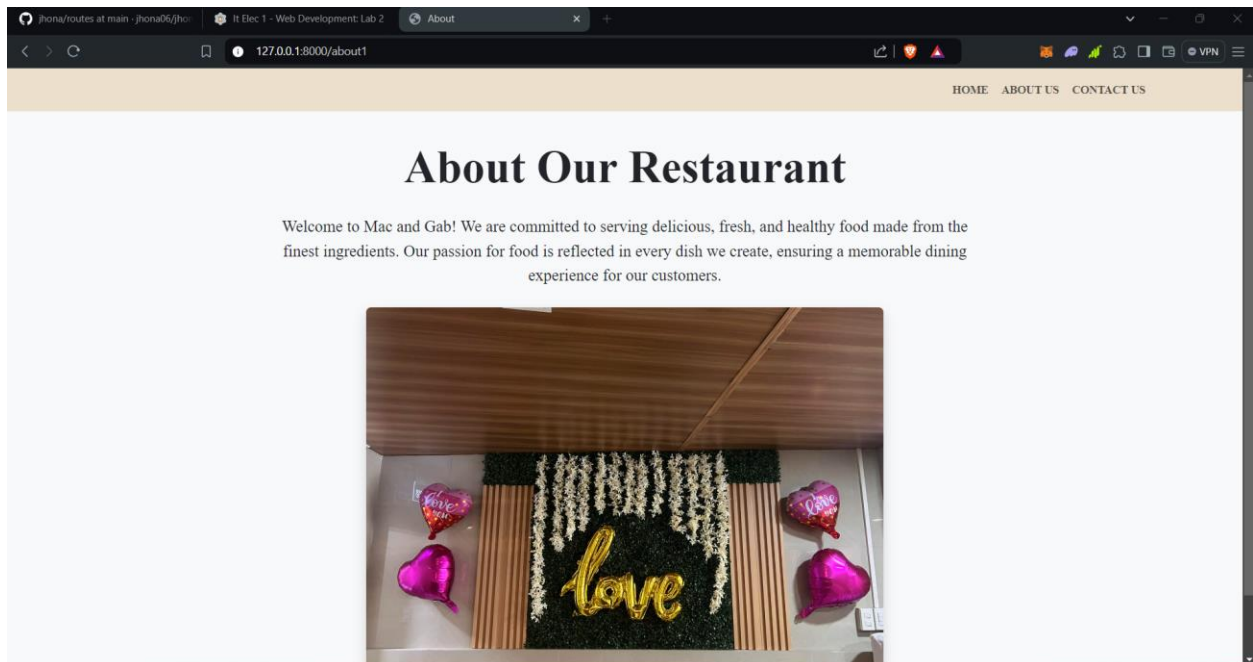
```
web.php user.blade.php welcome.blade.php X
resources > views > welcome.blade.php
75 <body>
76 <div class="navbar-container">
77 <!-- Navbar -->
78 <nav class="navbar navbar-expand-lg">
79 <div class="container">
80 <a class="navbar-brand" href="{{ route('homepage') }}"></a>
81 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav"
82 <span class="navbar-toggler-icon"></span>
83 </button>
84 <div class="collapse navbar-collapse" id="navbarNav">
85 <ul class="navbar-nav ms-auto">
86 <li class="nav-item">
87 <a class="nav-link" href="{{ route('homepage') }}">Home</a>
88 </li>
89 <li class="nav-item">
90 <a class="nav-link" href="{{ route('about1') }}">About Us</a>
91 </li>
92 <li class="nav-item">
93 <a class="nav-link" href="{{ route('contact') }}">Contact Us</a>
94 </li>
95 </ul>
96 </div>
97 </div>
98 </nav>
99 </div>
100 <div class="content">
101 <div class="welcome-message">
102 {{ $message }}
103 </div>
104
105 <div class="welcome-image">
106 
107 </div>
108 </div>
109 </body>
```



Realtime Application of the About page

-This will load the “/about1” page.

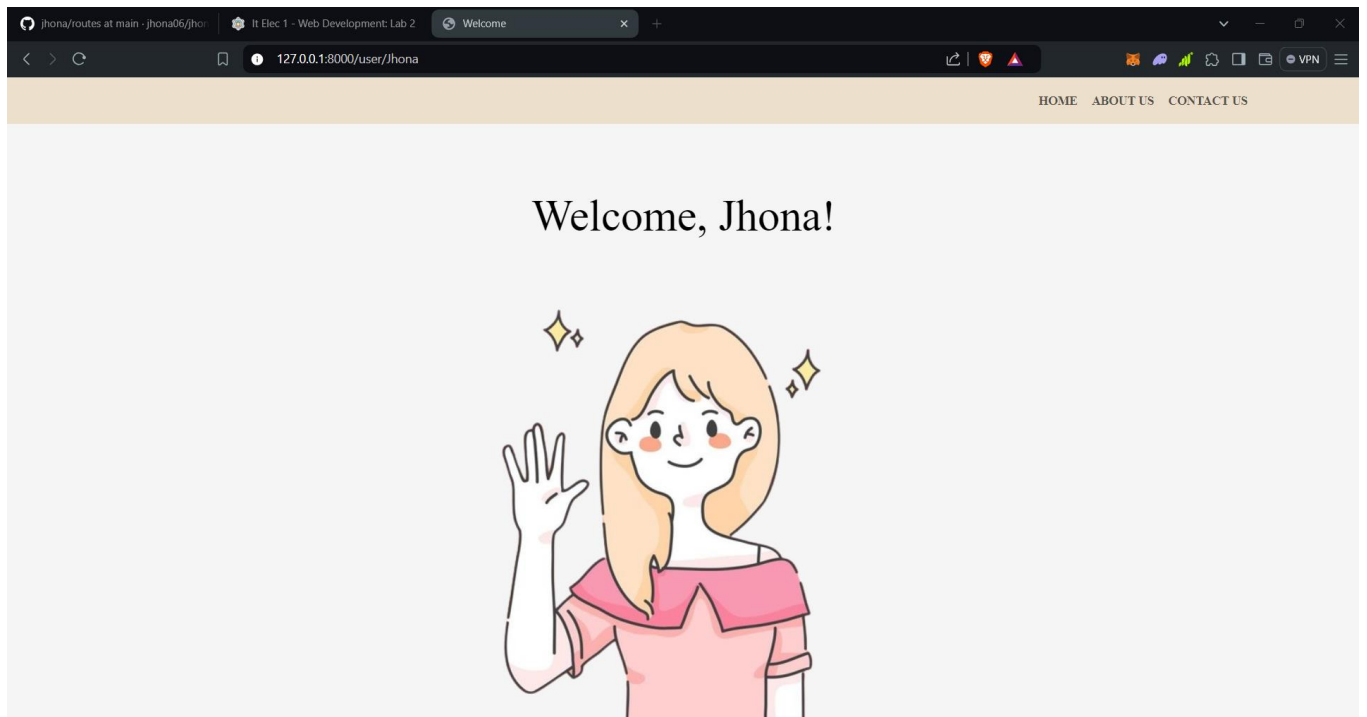
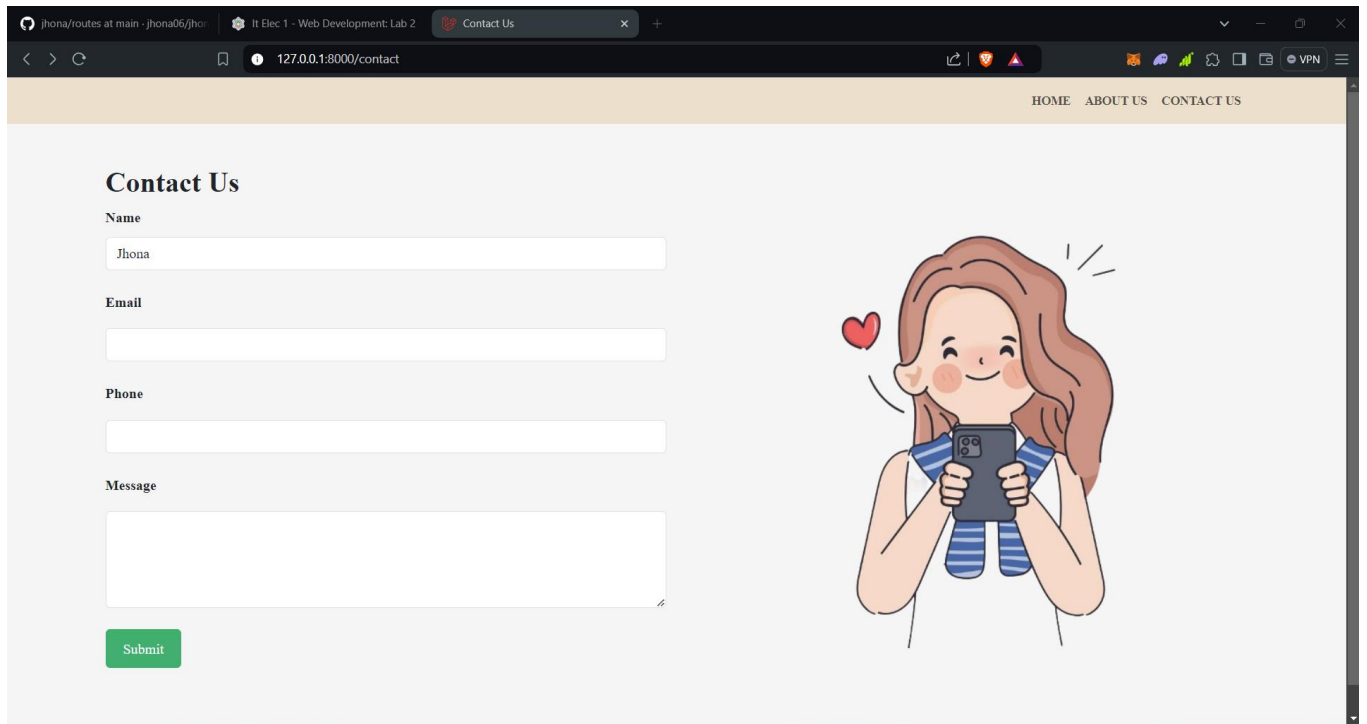
```
web.php user.blade.php welcome.blade.php about1.blade.php x
resources > views > about1.blade.php
80 <body>
81 <div class="navbar-container">
82 <nav class="navbar navbar-expand-lg">
83 <div class="container">
84 <a class="navbar-brand" href="{{ route('homepage') }}"></a>
85 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-
86 <span class="navbar-toggler-icon"></span>
87 </button>
88 <div class="collapse navbar-collapse" id="navbarNav">
89 <ul class="navbar-nav ms-auto">
90 <li class="nav-item">
91 <a class="nav-link" href="{{ route('homepage') }}">Home</a>
92 </li>
93 <li class="nav-item">
94 <a class="nav-link" href="{{ route('about1') }}">About Us</a>
95 </li>
96 <li class="nav-item">
97 <a class="nav-link" href="{{ route('contact') }}">Contact Us</a>
98 </li>
99 </ul>
100 </div>
101 </div>
102 </nav>
103 </div>
104 <!-- About Section -->
105 <section id="about" class="py-5 bg-light">
106 <div class="container">
107 <div class="row justify-content-center">
108 <div class="col-md-8 text-center">
109 <h2 class="display-4 mb-4">About Our Restaurant</h2>
110 <p class="lead mb-4">
111 Welcome to Mac and Gab! We are committed to serving delicious, fresh, and healthy food
112 made from the finest ingredients. Our passion for food is reflected in every dish we create,
113 ensuring a memorable dining experience for our customers.
114 </p>
115 </div>
116 </div>
```



Realtime Application of the Contact form (with username)

-This will get the username input by the user and it will retrieve the username into other page “user.blade.php” and will show the username parameter.

```
web.php user.blade.php X
resources > views > user.blade.php
83 <body>
84     <div class="navbar-container">
85         <!-- Navbar -->
86         <nav class="navbar navbar-expand-lg">
87             <div class="container">
88                 <a class="navbar-brand" href="{{ route('homepage') }}"></a>
89                 <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-b
90                     <span class="navbar-toggler-icon"></span>
91                 </button>
92                 <div class="collapse navbar-collapse" id="navbarNav">
93                     <ul class="navbar-nav ms-auto">
94                         <li class="nav-item">
95                             <a class="nav-link" href="{{ route('homepage') }}">Home</a>
96                         </li>
97                         <li class="nav-item">
98                             <a class="nav-link" href="{{ route('about1') }}">About Us</a>
99                         </li>
100                        <li class="nav-item">
101                            <a class="nav-link" href="{{ route('contact') }}">Contact Us</a>
102                        </li>
103                    </ul>
104                </div>
105            </div>
106        </nav>
107    </div>
108    <div class="content">
109        <div class="welcome-message">
110            Welcome, {{ $username }}!
111        </div>
112        <div class="welcome-image">
113            
114        </div>
115    </div>
```



Realtime Application for Contact form (no username)

-As you can see no username is being inputted when submit button is being pressed it will direct to other page “user.blade.php” and the default username is being presented “Welcome, Guest!”

