

1.

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

This route handle requests to the homepage (/). When someone visits the homepage, it returns a view called welcome and then the view will display a message: “ Welcome to the homepage”.

```
2     Route::get('/about', function() {
3         return view('about');
4     })->name('about');
5
```

This route handles requests to the (/about) URL. This will returns a view called about. There's no message passed here, so it just displays the contents of the about view. This route is named about.

```
// it will redirect the home to "homepage" name
Route::redirect('/home', "/");
```

In this route, if anyone who visits the “/home” URL they will be automatically redirected to the homepage.

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

This route is for the /contact URL. When visited, it returns a view called contact, which likely contains a form for users to fill out. This route is named contact.

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

This route handles form submissions made to /contact/submit. When the form is submitted, it will get the username input from the form and redirects the user to a route named user.optional, passing the username as a parameter.

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

This is the route which handles requests to URLs like /user/johndoe. It takes the username from the URL and passes it to the user view, where it can be displayed. This also ensures that the username only contains alphabetic characters (a-z, A-Z).

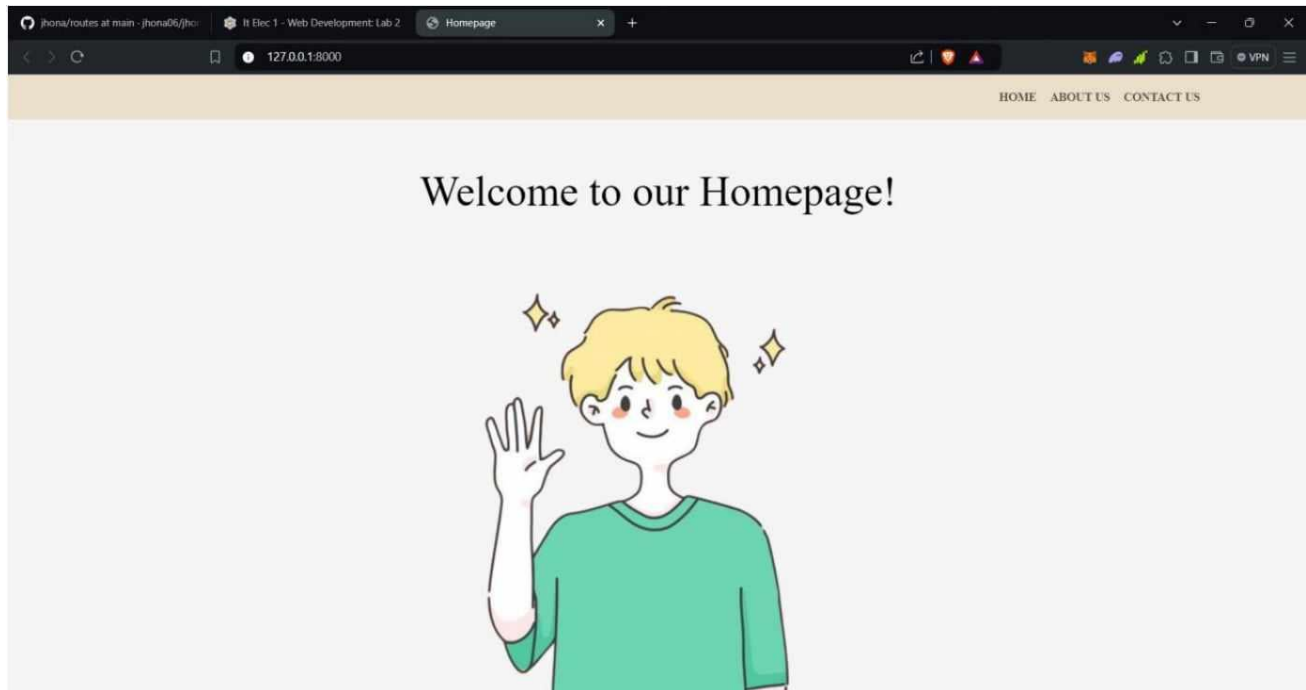
```
Route::get('/user/{username?}', function ($username = 'Guest') {  
    return view('user', ['username' => $username]);  
})->where('username', '[A-Za-z]+')->name('user.optional');
```

Here in this route, If no username is provided, it defaults to 'Guest'. It then passes this username to the user view. This route also ensures that the username only contains alphabetic characters.

```
// middleware use for web CSRF protection  
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');  
    });  
});
```

This section groups several routes under middleware named web, which provides additional features like CSRF (Cross-Site Request Forgery) protection. It also organizes routes that share common functionality.

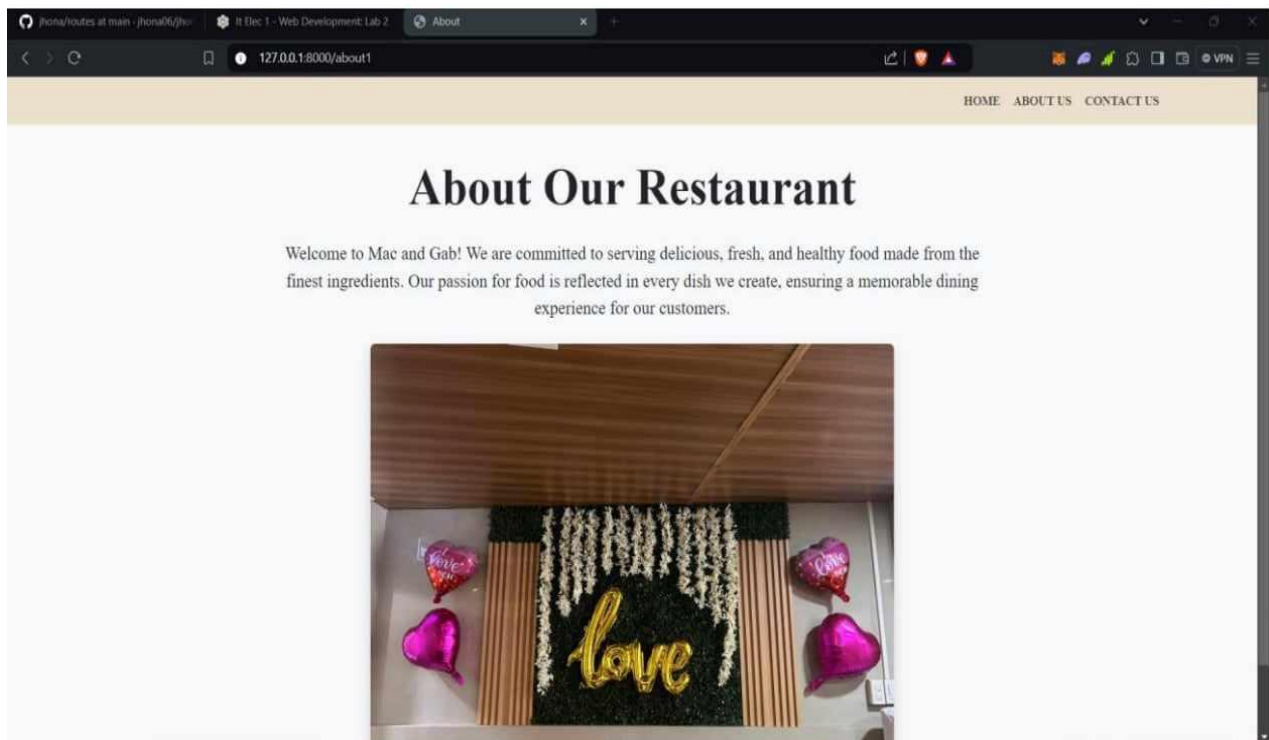
REAL TIME APPLICATIONS



```
74 </head>
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" aria-controls="navbarNav" aria-expanded="false"
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     </nav>
98   </div>
99   <div class="content">
100     <div class="welcome-message">
101       {{ $message }}
102     </div>
103   </div>
104   <div class="welcome-image">
105     
106   </div>
107 </div>
108 </body>
```

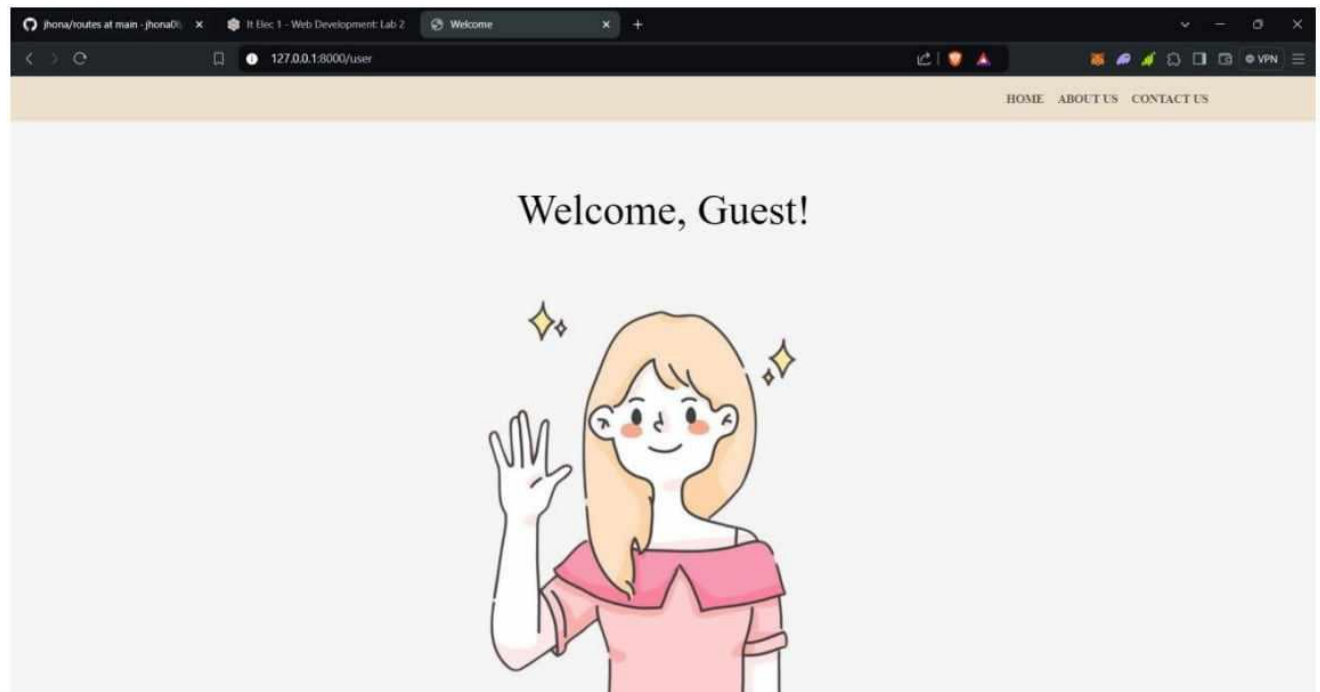
When this page is loaded or opened in a browser, it will display a responsive navbar at the top with links to Home, About Us, and Contact Us. Below the navbar, it will show a welcome message and an image centered in the content area.

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



When this page is loaded or opened in a browser, it will display a responsive navbar at the top and an "About" section below it, which includes a heading, a description of the restaurant, and an image

```
83 </head>
84 <body>
85   <div class="navbar-container">
86     <!-- Navbar -->
87     <nav class="navbar navbar-expand-lg">
88       <div class="container">
89         <a class="navbar-brand" href="{{ route('homepage') }}"></a>
90         <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" data-bs-keyboard="true">
91           <span class="navbar-toggler-icon"></span>
92         </button>
93         <div class="collapse navbar-collapse" id="navbarNav">
94           <ul class="navbar-nav ms-auto">
95             <li class="nav-item">
96               <a class="nav-link" href="{{ route('homepage') }}">Home</a>
97             </li>
98             <li class="nav-item">
99               <a class="nav-link" href="{{ route('about1') }}">About Us</a>
100            </li>
101            <li class="nav-item">
102              <a class="nav-link" href="{{ route('contact') }}">Contact Us</a>
103            </li>
104          </ul>
105        </div>
106      </div>
107    </nav>
108  </div>
109  <div class="content">
110    <div class="welcome-message">
111      Welcome, {{ $username }}!
112    </div>
113    <div class="welcome-image">
114      
115    </div>
116  </div>
117  <!-- Bootstrap JS -->
118  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></script>
```



When this page is loaded or opened in a browser, it will display a responsive navbar at the top and show a welcome message with the username and an image centered in the middle of the page. If no username is provided the page will display the default message which is: "Welcome, Guest!"

