

IT Elec 1: WEB DEVELOPMENT

POPULATING PAGES

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BSIT 3C

CONTROLLER: `app/Http/Controllers/LandingPageController.php`

```
app > Http > Controllers > LandingPageController.php
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class LandingPageController extends Controller
8  {
9      public function index()
10     {
11         // Simulated featured books data
12         $featuredBooks = [];
13
14         // Generate 12 books dynamically
15         for ($i = 1; $i <= 12; $i++) {
16             $featuredBooks[] = [
17                 'id' => $i, // Unique ID for the book
18                 'title' => "Book Title $i",
19                 'image' => "assets/img/cover$i.jpg", // Assuming different images for each book
20                 'rating' => 0, // Default to 0 for unrated books
21                 'description' => "Description for Book $i. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio, dapibus ac facilisis in, egestas eget quam. Donec id elit non mi porta gravida at eget metus. Nullam id dolor id nibh ultricies vehicula ut id elit."
22             ];
23         }
24
25         return view('LandingPage', compact('featuredBooks'));
26     }
27 }
```

The LandingPageController is responsible for managing requests to the landing page. Within this controller, the index method dynamically generates an array of 12 featured books, each with unique attributes such as IDs, titles, images, default ratings, and descriptions. This featuredBooks array is designed for easy updates, allowing flexibility in showcasing different books over time. The data is efficiently passed to the corresponding view for rendering using the compact function, ensuring seamless integration with the front-end display. Additionally, the method promotes modularity, enabling streamlined updates and improved maintainability of the landing page content.

ROUTES: `routes/web.php`

```
Route::get('/', [LandingPageController::class, 'index'])->name('landing');
```

This route connects the root URL (/) to the index method of the LandingPageController. This method creates an array of featured books and sends the data to the LandingPage view for display. The route is named landing, providing a convenient way to reference it throughout the application, enhancing code readability and maintainability.

VIEWS: resources/views/LandingPage.blade.php

```
resources > views > LandingPage.blade.php
2 <html data-bs-theme="light" lang="en">
180 <div class="container">
181 <div class="row" style="padding-bottom: 18px">
193 </div>
194 </div><div class="carousel slide" data-bs-ride="carousel" id="carousel-2">
195 <div class="carousel-inner">
196 @foreach (array_chunk($featuredBooks, 6) as $index => $books)
197 <div class="carousel-item {{ $index == 0 ? 'active' : '' }}">
198 <div class="row">
199 @foreach ($books as $book)
200 <div class="col">
201 <div class="card">
202 <div class="card-body">
203 <div class="d-lg-flex d-xxl-flex justify-content-lg-center justify-content-xxl-center">
204 
206 <h4 class="card-title">{{ $book['title'] }}</h4>
207 <div class="rating" data-book-id="{{ $book['id'] }}">
208 @for ($i = 1; $i <= 6; $i++)
209 <i class="fas fa-star" style="color: rgb(174, 174, 174)"></i>
210 @endfor
211 </div>
212 </div>
213 <p class="card-text">{{ $book['description'] }}</p>
214 </div>
215 </div>
216 @endforeach
217 </div>
218 </div>
219 @endforeach
220 </div>
```

This view showcases the featured books received from the controller by iterating over the `$featuredBooks` array. It employs a carousel to present the books in groups of six per slide, ensuring a visually appealing and organized layout. Each book entry includes an image, title, placeholder star-based rating, and description. The carousel dynamically populates with data from the controller, offering an engaging and interactive way for users to explore the featured books. This design enhances user experience while maintaining a seamless connection between the back-end data and front-end presentation.

STAR RATINGS: public/assets/bootstrap/js/star-rating.js

```
public > assets > bootstrap > js > JS star-rating.js > document.addEventListener("DOMContentLoaded") callback > ratingContainers
1 document.addEventListener("DOMContentLoaded", function () {
2 // Get all rating containers
3 const ratingContainers = document.querySelectorAll(".rating");
4
5 // Load saved ratings from localStorage
6 const savedRatings = JSON.parse(localStorage.getItem("bookRatings")) || {};
7
8 // Initialize each rating container
9 ratingContainers.forEach((container) => {
10 const bookId = container.getAttribute("data-book-id");
11 const stars = container.querySelectorAll(".fa-star");
12
13 // Set initial state based on saved ratings
14 const initialRating = savedRatings[bookId] || 0;
15 for (let i = 0; i < initialRating; i++) {
16 stars[i].style.color = "var(--bs-yellow)"; // Yellow for active stars
17 }
18
19 // Add click event listeners to stars
20 stars.forEach((star, index) => {
21 star.addEventListener("click", () => {
22 // Set the rating
23 const rating = index + 1;
24
25 // Update the stars visually
26 stars.forEach((s, i) => {
27 if (i < rating) {
28 s.style.color = "var(--bs-yellow)"; // Highlight active stars in yellow
29 } else {
30 s.style.color = "rgb(174, 174, 174)"; // Set unselected stars to gray
31 }
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```


This script allows users to rate the featured books displayed in the view. Each rating is saved in localStorage, ensuring persistence even after the page is reloaded. When a user interacts with the star icons in the rating section, the selected rating for the corresponding book is visually updated in real-time and stored locally. This functionality ensures that the user's ratings are retained and displayed on the landing page during subsequent visits, enhancing user engagement and providing a personalized experience.

RENDERED PAGES: **Featured Books**


Displaying 3 Featured Books:

```
for ($i = 1; $i <= 3; $i++) {
```


Featured books



Book Title 1
★★★★★
Description for Book 1. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.



Book Title 2
★★★★★
Description for Book 2. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.




Book Title 3
★★★★★
Description for Book 3. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.

view all


Displaying 6 Featured Books:

```
for ($i = 1; $i <= 6; $i++) {
```


Featured books




Book Title 1
★★★★★
Description for Book 1. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.




Book Title 2
★★★★★
Description for Book 2. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.




Book Title 3
★★★★★
Description for Book 3. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.



Book Title 4
★★★★★
Description for Book 4. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.



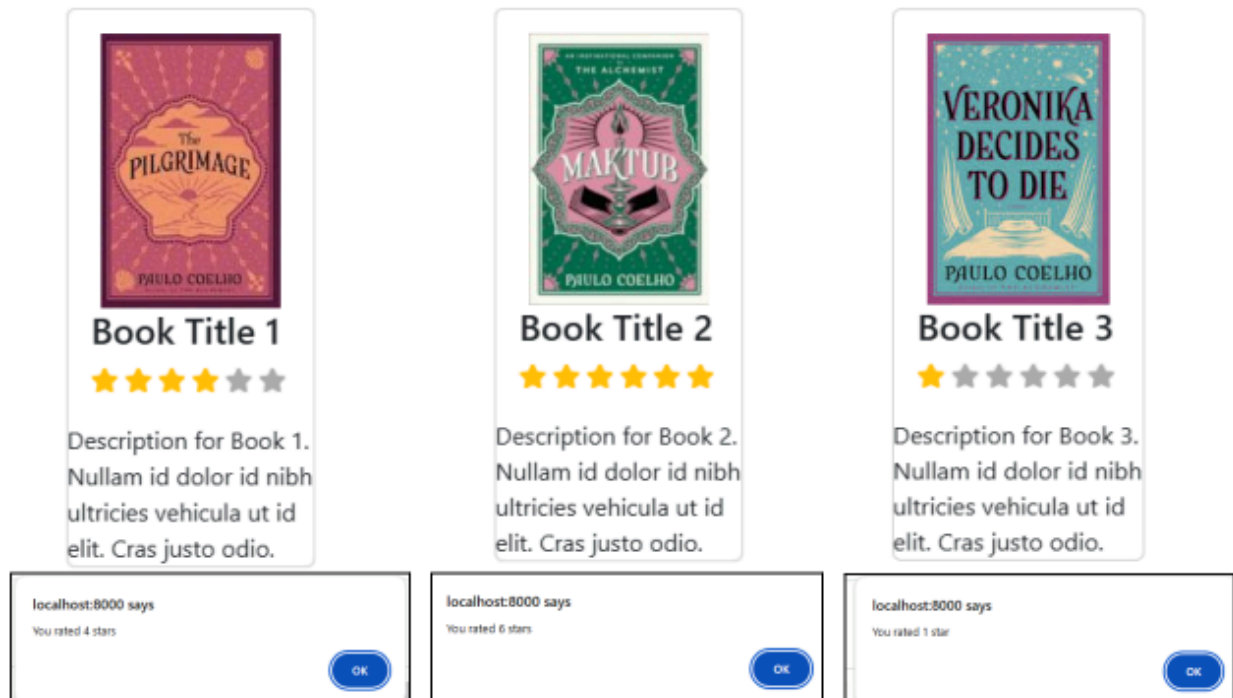
Book Title 5
★★★★★
Description for Book 5. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.



Book Title 6
★★★★★
Description for Book 6. Nullam id dolor id nibh ultricies vehicula ut id elit. Cras justo odio.

view all

RENDERED PAGES: Star Rating



WHAT I LEARNED:

In this project, I gained valuable experience in building a dynamic landing page by using Blade templates for the views and controllers to handle data management effectively. We implemented a feature where detailed information about featured books—such as titles, images, ratings, and descriptions—was passed from the controller to the view. A carousel was used to showcase the books in visually appealing groups, and the design was made flexible to allow easy addition of more books. A key functionality enabled users to rate the books, with their ratings stored in localStorage, ensuring persistence across page reloads and delivering a personalized experience. To achieve this, we created controllers to load and manage content, registered them in routes, and utilized arrays to simulate database functionality for seamless data display. This project emphasized modularity, scalability, and user interactivity, providing a solid foundation for creating dynamic and responsive web applications.