



Bicol University
College of Science
Legazpi City, Albay



It Elect. 1 - Web Development 1

POPULATING FROM A DATABASE

Soreda, John Russel N.
BSIT - 3C



HOME PAGE

Welcome to Robiel Prince Café PrinceLouisJaylo!

Where every bite is a *little joy*.

Savor light meals, delightful snacks, and a cozy atmosphere crafted just for you.

Our Features

- Morning Delights & Snack Staples
- Delicious Meals & Free Soups
- Refreshing Drinks & Beverages

- Greets users with a personalized message (e.g., "Welcome to Robiel Prince Café Guest!" or their name).
- Highlights the café's features, such as breakfast, lunch, and drinks.
- Showcases a "Best Sellers" section, complete with product names, images, prices, and ratings.

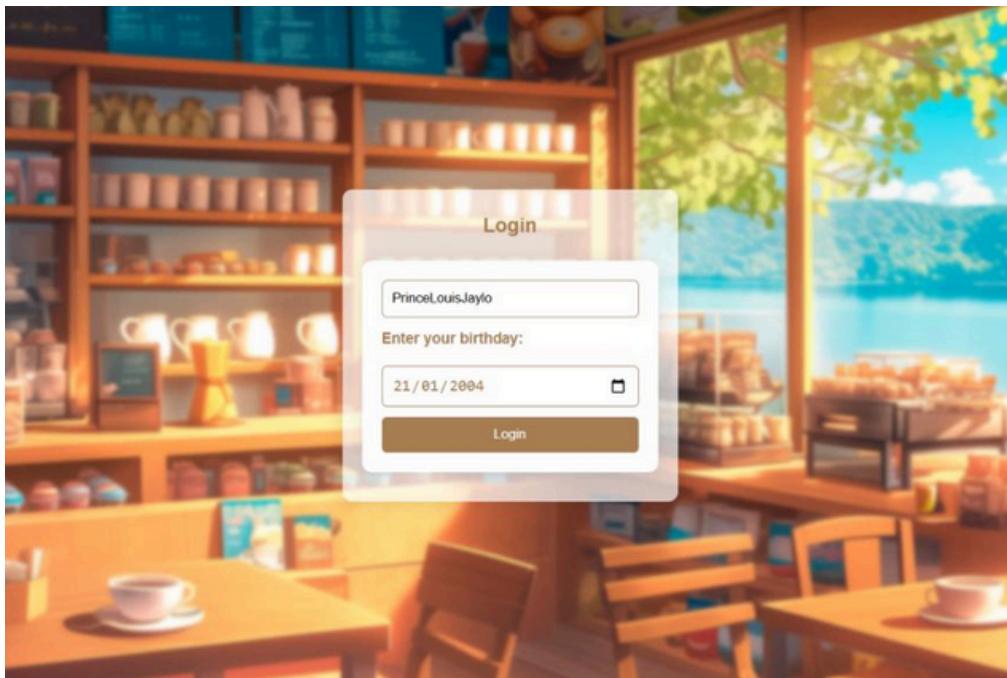
MENU PAGE

Breakfast

Item	Description	Price	Rating	Action
Pancakes/Crepes with toppings	With toppings	₱35.00	★★★★★	Buy
Egg Sandwiches	With toppings	₱25.00	★★★★★	Buy
Yummy Burgers	With toppings	₱40.00	★★★★★	Buy
Ground Beef Cheesy Nachos/Tacos	With toppings	₱75.00	★★★★★	Buy
Small Pancit/Bihon Guisado	With toppings	₱50.00	★★★★★	Buy

Lunch/Dinner with free soup of the day

- Dynamically displays a list of food items fetched from the database.
- Each item includes details such as name, price, image, and rating.



- Features a login form where users input their name and birthday to log in.
- Provides validation for user inputs, with error messages for invalid submissions (e.g., "Please fill out this field" or "Please match the requested format").

HOME PAGE CONTROLLER

```
app > Http > Controllers > HomePageController.php
1
2
3     namespace App\Http\Controllers;
4
5     use Illuminate\Http\Request;
6
7     class HomePageController extends Controller
8     {
9         public function index($username = 'Guest')
10        {
11            // Simulated "Best Sellers" data
12            $bestSellers = [
13                [
14                    'name' => 'Egg Sandwich',
15                    'price' => '$1.2',
16                    'image' => 'css/img1.jpg',
17                    'rating' => 4
18                ],
19                [
20                    'name' => 'Tapsilog',
21                    'price' => '$1.2',
22                    'image' => 'css/img2.jpg',
23                    'rating' => 4
24                ],
25                [
26                    'name' => 'Pancit Bihon',
27                    'price' => '$1.2',
28                    'image' => 'css/img3.jpg',
29                    'rating' => 4
30                ]
31            ];
32        }
33    }
```

```
Route::get('/homepage/{username}', [HomePageController::class, 'index'])->name('homepage');
```

- HomePageController: Manages homepage logic, simulates "best sellers" data, and personalizes greetings using a \$username parameter.

MENU CONTROLLER PAGE

```
app > Http > Controllers > MenuController.php
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class MenuController extends Controller
8  {
9      public function index($username)
10     {
11         // Simulated menu data
12         $menuItems = [
13             [
14                 'name' => 'Pancakes/Crepes with toppings',
15                 'price' => '₱35.00',
16                 'image' => 'css/img1.jpg',
17                 'rating' => 4
18             ],
19             [
20                 'name' => 'Egg Sandwiches',
21                 'price' => '₱25.00',
22                 'image' => 'css/img2.jpg',
23                 'rating' => 4
24             ],
25             [
26                 'name' => 'Yummy Burgers',
27                 'price' => '₱40.00',
28                 'image' => 'css/img3.jpg',
29                 'rating' => 4
30             ],
31             [
32                 'name' => 'Ground Beef Cheesy Nachos/Tacos',
33                 'price' => '₱75.00',
34                 'image' => 'css/img2.jpg',
35                 'rating' => 4
36             ],
37             [
38                 'name' => 'Small Pancit/Bihon Guisado',
39                 'price' => '₱50.00',
40                 'image' => 'css/img2.jpg',
41                 'rating' => 4
42             ],
43         ];
44
45         // Pass data to the view
46         return view('menu', ['username' => $username, 'menuItems' => $menuItems]);
47     }
48 }
```

- **MenuController:** Fetches menu data from the menu_items database table using a MenuItem model and personalizes the menu page using the \$username parameter.

LOGIN CONTROLLER PAGE

```
app > Http > Controllers > LoginController.php
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6
7  class LoginController extends Controller
8  {
9      public function goTologin($userId = null)
10     {
11         $username = 'Guest';
12
13         // If a user ID is provided, fetch or customize data for that user
14         if ($userId) {
15             // Placeholder logic; in a real app, fetch user info from a database.
16             $username = "User{$userId}";
17         }
18
19         return view('goTologin', ['username' => $username])->with('hideNavAndFooter', true);
20     }
21
22     public function submit(Request $request)
23     {
24         $request->validate([
25             'username' => 'required|alpha'
26         ], [
27             'username.alpha' => 'The username should only contain alphabetic characters.',
28             'username.required' => 'The username field is required.'
29         ]);
30
31         $username = $request->input('username', 'Guest');
32         return redirect("/homepage/$username");
33     }
34 }
```

- LoginController: Handles user login, validates input, and redirects to the homepage with a personalized username.

```
22 DB_CONNECTION=mysql
23 DB_HOST=127.0.0.1
24 DB_PORT=3306
25 DB_DATABASE=robielprincecafe
26 DB_USERNAME=root
27 DB_PASSWORD=
28
```

- .env File: Used to connect the website to the database via XAMPP.

ROUTES

app > Models > MenuItem.php

```
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Factories\HasFactory;
6  use Illuminate\Database\Eloquent\Model;
7
8  class MenuItem extends Model
9  {
10     use HasFactory;
11 }
12
```

- MenuItem Model: Represents the menu_items database table, used for interacting with the menu data.

database > migrations > 2024_12_08_030324_create_menu_items_table.php

```
1  <?php
2
3  use Illuminate\Database\Migrations\Migration;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Support\Facades\Schema;
6
7  return new class extends Migration
8  {
9      /**
10      * Run the migrations.
11      */
12      public function up()
13      {
14          Schema::create('menu_items', function (Blueprint $table) {
15              $table->id();
16              $table->string('name');
17              $table->string('price');
18              $table->string('image');
19              $table->integer('rating');
20              $table->timestamps();
21          });
22      }
23
24      /**
25      * Reverse the migrations.
26      */
27      public function down(): void
28      {
29          Schema::dropIfExists('menu_items');
30      }
31  }
```

- Migration File: Creates the menu_items table with fields for id, name, price, image, rating, and timestamps, ensuring proper database structure.

The screenshot shows the phpMyAdmin interface with the following details:

- Left sidebar:** Shows the database structure with databases like expensesandsalestracker, information_schema, mysql, performance_schema, phpmyadmin, and robieprincecafe.
- Top navigation:** Includes tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers.
- Table view:** The menu_items table is displayed with the following data:

	id	name	price	image	rating	created_at	updated_at
1	1	Pancakes/Crepes with toppings	₱35.00	css/img1.jpg	4	2024-12-08 03:14:32	2024-12-08 03:14:32
2	2	Egg Sandwiches	₱25.00	css/img2.jpg	4	2024-12-08 03:14:32	2024-12-08 03:14:32
3	3	Yummy Burgers	₱40.00	css/img3.jpg	4	2024-12-08 03:14:32	2024-12-08 03:14:32
4	4	Ground Beef Cheesy Nachos/Tacos	₱75.00	css/img2.jpg	4	2024-12-08 03:14:32	2024-12-08 03:14:32
5	5	Small Pancit/Bihon Guisado	₱50.00	css/img2.jpg	4	2024-12-08 03:14:32	2024-12-08 03:14:32
6	6	Pancakes/Crepes with toppings	₱35.00	css/img1.jpg	4	2024-12-08 03:16:36	2024-12-08 03:16:36
7	7	Egg Sandwiches	₱25.00	css/img2.jpg	4	2024-12-08 03:16:36	2024-12-08 03:16:36
8	8	Yummy Burgers	₱40.00	css/img3.jpg	4	2024-12-08 03:16:36	2024-12-08 03:16:36
9	9	Ground Beef Cheesy Nachos/Tacos	₱75.00	css/img2.jpg	4	2024-12-08 03:16:36	2024-12-08 03:16:36
10	10	Small Pancit/Bihon Guisado	₱50.00	css/img2.jpg	4	2024-12-08 03:16:36	2024-12-08 03:16:36

- This migration is responsible for creating the menu_items table in the database, with columns for the item's id, name, price, image, rating, and timestamps (created_at and updated_at). The up() method defines the structure of the table, while the down() method provides the functionality to drop the table if necessary, ensuring that the database structure remains consistent with the application's requirements.

What I have Learned?

I learned that this migration is essential for defining the structure of the menu_items table in the database. It creates columns such as id, name, price, image, rating, and timestamps (created_at and updated_at). The up() method is responsible for building the table by specifying the column names and data types. The down() method ensures that the table can be safely removed if necessary, allowing the database structure to be flexible and aligned with the application's requirements. This process highlights the importance of managing database migrations in Laravel for maintaining a consistent and well-structured database.

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