

## Laboratory Activity 5 – Migrations and Model

```
web.php x
routes > web.php
1 <?php
2
3 use App\Http\Controllers\ReservationController;
4
5 use Illuminate\Support\Facades\Route;
6
7 Route::get(uri: '/', action: function (): Factory|View {
8 |     return view(view: 'welcome');
9 | });
10
11 Route::get(uri: '/reservation-form', action: [ReservationController::class, 'showForm']);
12 Route::post(uri: '/submit-reservation', action: [ReservationController::class, 'submitForm']);
13 Route::get(uri: '/output', action: [ReservationController::class, 'showDetails']);
```

## Routes

```
ReservationController.php M x
app > Http > Controllers > ReservationController.php > ReservationController > showDetails()
1 <?php
2
3 namespace App\Http\Controllers;
4 use App\Models\Reservations;
5
6
7 use Illuminate\Http\Request;
8
9 4 references | 0 implementations
10 class ReservationController extends Controller
11 {
12     1 reference | 0 overrides
13     public function showForm(): Factory|View
14     {
15         return view(view: 'welcome');
16     }
17
18     1 reference | 0 overrides
19     public function submitForm(Request $request): Redirector\RedirectResponse
20     {
21         $validated = $request->validate(rules: [
22             'kzFirstName' => 'required|string|max:255',
23             'kzLastName' => 'required|string|max:255',
24             'kzEmail' => 'required|email',
25             'kzContactNumber' => 'required|numeric',
26             'kzAddress' => 'required|string|max:255',
27             'kzDate' => 'required|date',
28             'kzRoom' => 'required|in:Standard,Deluxe,Suite',
29             'kzDays' => 'required|integer|min:1',
30             'kzGuest' => 'required|integer|min:1',
31             'kzDetails' => 'nullable|string'
32         ], params: [
33             'kzFirstName.required' => 'The first name field is required.',
34             'kzLastName.required' => 'The last name field is required.',
35             'kzEmail.required' => 'The email address is required.',
36             'kzEmail.email' => 'Please enter a valid email address.',
37             'kzContactNumber.required' => 'The contact number field is required.',
38             'kzContactNumber.numeric' => 'The contact number must be a valid number.',
39             'kzAddress.required' => 'The address field is required.',
40             'kzDate.required' => 'The check-in date is required.',
41             'kzRoom.required' => 'Please select a room type.',
42             'kzDays.required' => 'The number of days field is required.',
43             'kzGuest.required' => 'The number of guests field is required.',
44         ]);
45     }
46 }
```

```

42
43
44     $roomPrices = [
45         'Standard' => 1500,
46         'Deluxe' => 3000,
47         'Suite' => 4500
48     ];
49
50     $kzRoomPrice = $roomPrices[$request->kzRoom];
51     $kzTotalPrice = $kzRoomPrice * $request->kzDays;
52
53     // Store reservation details in the session
54     session()->put(key: 'reservationDetails', value: [
55         'kzFirstName' => $request->kzFirstName,
56         'kzLastName' => $request->kzLastName,
57         'kzEmail' => $request->kzEmail,
58         'kzContactNumber' => $request->kzContactNumber,
59         'kzAddress' => $request->kzAddress,
60         'kzDate' => $request->kzDate,
61         'kzRoom' => $request->kzRoom,
62         'kzDays' => $request->kzDays,
63         'kzGuest' => $request->kzGuest,
64         'kzDetails' => $request->kzDetails,
65         'kzRoomPrice' => $kzRoomPrice,
66         'kzTotalPrice' => $kzTotalPrice,
67     ]);
68
69     // Create a new reservation record in the database
70     Reservations::create(attributes: [
71         'kzFirstName' => $request->kzFirstName,
72         'kzLastName' => $request->kzLastName,
73         'kzEmail' => $request->kzEmail,
74         'kzContactNumber' => $request->kzContactNumber,
75         'kzAddress' => $request->kzAddress,
76         'kzDate' => $request->kzDate,
77         'kzRoom' => $request->kzRoom,
78         'kzDays' => $request->kzDays,
79         'kzGuest' => $request->kzGuest,
80         'kzDetails' => $request->kzDetails,
81         'kzRoomPrice' => $kzRoomPrice,
82         'kzTotalPrice' => $kzTotalPrice,
83     ]);
84
85     return redirect(to: '/output');
86 }

```

```

84     return redirect(to: '/output');
85 }
86
87 1 reference | 0 overrides
88 public function showDetails(): Factory|Redirector|RedirectResponse|View
89 {
90     $reservationDetails = session(key: 'reservationDetails');
91
92     if (!$reservationDetails) {
93         return redirect(to: '/reservation-form');
94     }
95
96     return view(view: 'output', data: compact(var_name: 'reservationDetails'));
97 }
98

```

## Controller

```


2024_10_01_082154_create_reservations_table.php u X
database > migrations > 2024_10_01_082154_create_reservations_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     public function up(): void
11     {
12         Schema::create(table: 'reservations', callback: function (Blueprint $table): void {
13             $table->id();
14             $table->string(column: 'kzFirstName');
15             $table->string(column: 'kzLastName');
16             $table->string(column: 'kzEmail');
17             $table->string(column: 'kzContactNumber');
18             $table->string(column: 'kzAddress');
19             $table->date(column: 'kzDate');
20             $table->string(column: 'kzRoom');
21             $table->integer(column: 'kzDays');
22             $table->integer(column: 'kzGuest');
23             $table->string(column: 'kzDetails')->nullable();
24             $table->decimal(column: 'kzRoomPrice', total: 8, places: 2);
25             $table->decimal(column: 'kzTotalPrice', total: 8, places: 2);
26
27             $table->timestamps();
28         });
29     }
30
31     public function down(): void
32     {
33         Schema::dropIfExists(table: 'reservations');
34     }
35 };
36
37

```

## Migration

```
Reservations.php u X
app > Models > Reservations.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 Reservations extends Model
9 {
10     0 references
11     protected $table = 'reservations';
12
13     0 references
14     protected $fillable = [
15         'kzFirstName',
16         'kzLastName',
17         'kzEmail',
18         'kzContactNumber',
19         'kzAddress',
20         'kzDate',
21         'kzRoom',
22         'kzDays',
23         'kzGuests',
24         'kzDetails',
25         'kzRoomPrice',
26         'kzTotalPrice',
27     ];
28 }
```

## Model



**SIENA'S**  
HOTEL & EVENTS PLACE

### RESERVE A ROOM

GUEST INFORMATION

Full Name:

Email Address:

Contact Number:

Address:

### ROOM RESERVATION

Checkin Date:

Room:

☐ Standard (P 1500) ☐ Deluxe (P 3000) ☐ Suite (P4500)

Number of days:


Number of guests:

Special Requests/Notes:

Submit Reservation

POWERED BY KZ 2024

## Form Without Input



## RESERVE A ROOM

GUEST INFORMATION

**Full Name:**  
  
The first name field is required.  
  
The last name field is required.

**Email Address:**  
  
The email address is required.

**Contact Number:**  
  
The contact number field is required.

**Address:**  
  
The address field is required.

**Checkin Date:**  
  
The check-in date is required.

**Room:**  
☒ Standard (P 1500) ☐ Deluxe (P 3000) ☐ Suite (P 4000) Please select a room type.

**Number of days:**  
  
Enter number of days.  
The number of days field is required.

**Number of guests:**  
  
Enter number of guests.  
The number of guests field is required.

**Special Requests/Notes:**  
  
Enter special requests, notes, and other details.

**Submit Reservation**

POWERED BY KZ 2024

### Form With Error Validation



## RESERVE A ROOM

GUEST INFORMATION

**Full Name:**

**Email Address:**

**Contact Number:**

**Address:**

ROOM RESERVATION

Checkin Date:

26/10/2024

Room:

☒ Standard (P 1500) ☐ Deluxe (P 3000) ☐ Suite (P4500)

Number of days:

3

Number of guests:

2

Special Requests/Notes:

Enter special requests, notes, and other details

Submit Reservation

POWERED BY KZ 2024

Form With Inputs

SIENA'S

HOTEL & EVENTS PLACE

GUEST INFORMATION

Full Name:

Kirsten Zulaibar

Email Address:

kirstenfaye.zulaibar.ccs@ust.edu.ph

Contact Number:

09871234544

Address:

Dos Castillas, Sampaloc, Manila

ROOM RESERVATION

Check-in Date:

2024-10-26

Room Type:

Standard

Number of Days:

3

Number of Guests:

2

Special Requests/Notes:

No details provided

PAYMENT DETAILS

Room Price:

P1,500.00

Total Price:

P4,500.00

Output

1 • `SELECT * FROM db_hotelsiena.reservations;`

Result Grid															
Filter Rows: <input type="text"/>															
Edit:     Export/Import:   Wrap Cell Contents:															
	id	kzFirsName	kzLasttName	kzEmail	kzContactNumber	kzAddress	kzDate	kzRoom	kzDays	kzGuest	kzDetails	kzRoomPrice	kzTotalPrice	created_at	updated_at
▶	1	Kirsten	Zulaibar	kirstenfaye.zulaibar.ccs@ust.edu.ph	09871234544	Dos Castillas, Sampaloc, Manila	2024-10-26	Standard	3	2		1500.00	4500.00	2024-10-01 08:36:23	2024-10-01 08:36:23
•															

Stored Data in Database