### 1️⃣ ****Laravel Jetstream Authentication****

This is used **throughout all the forms you posted**. Specifically:

**Login form:**

<form method="POST" action="{{ route('login') }}">

@csrf

...

</form>

**Registration form:**

<form method="POST" action="{{ route('register') }}">

@csrf

...

</form>

**Password reset / update forms:**

<form method="POST" action="{{ route('password.update') }}">

@csrf

...

</form>

**Two-factor authentication form:**

<form method="POST" action="{{ route('two-factor.login') }}">

@csrf

...

</form>

**Email verification resend:**

<form method="POST" action="{{ route('verification.send') }}">

@csrf

...

</form>

All these use **Jetstream routes, controllers, and components** (<x-authentication-card>, <x-guest-layout>).  
✅ This is **exactly Jetstream** handling authentication and route protection.

### 2️⃣ ****External Library (Livewire/Volt)****

**In your code, the Livewire/Alpine.js part is here:**

<div x-data="{ recovery: false }">

<div class="mb-4 text-sm text-gray-600" x-show="! recovery">

...

</div>

<div class="mb-4 text-sm text-gray-600" x-cloak x-show="recovery">

...

</div>

<form method="POST" action="{{ route('two-factor.login') }}">

@csrf

<div class="mt-4" x-show="! recovery">

<x-label for="code" value="{{ \_\_('Code') }}" />

<x-input ... />

</div>

<div class="mt-4" x-cloak x-show="recovery">

<x-label for="recovery\_code" value="{{ \_\_('Recovery Code') }}" />

<x-input ... />

</div>

<div class="flex items-center justify-end mt-4">

<button type="button" x-show="! recovery" x-on:click="recovery = true">

{{ \_\_('Use a recovery code') }}

</button>

<button type="button" x-cloak x-show="recovery" x-on:click="recovery = false">

{{ \_\_('Use an authentication code') }}

</button>

</div>

</form>

</div>

**Explanation:**

x-data, x-show, x-ref, and x-cloak are **Alpine.js directives**.

Alpine.js is included **by default in Jetstream Livewire stack**.

The toggle between “authentication code” and “recovery code” is a **dynamic feature handled by Livewire + Alpine**, fulfilling the external library requirement.

✅ **So in short:**

| **Feature** | **Code Location** | **Library/Package** |
| --- | --- | --- |
| Login/Register/Reset/2FA/Email verification | All <form> sections with route(...) | Laravel Jetstream |
| Dynamic 2FA code/recovery toggle | <div x-data="{ recovery: false }"> block | Alpine.js (used with Livewire) |