MUX-08: Integration Spec – Framework Bindings

System: MaxUXSuite

Module ID: MUX-08

Version: 1.0

Title: Integration Spec – Framework Bindings

Classification: UI Integration Reference

Responsible: TBYD UI Independence & Interface Team

License Model: TBYD License v2.2 / Audit Addendum A

Standards Reference: TBYD Capsule Protocol v2.1

Applicability: MaxOneOpen v4.1+

# 1. Purpose

This module defines how UI capsules can be referenced, mapped, and evaluated in common frontend frameworks. It ensures MaxUXSuite remains technically neutral and does not enforce any runtime binding.

# 2. Supported Framework Types

- Web (React, Vue, Svelte, Angular)  
- Native Mobile (SwiftUI, Jetpack Compose)  
- Terminal-based UIs (TUI frameworks)  
- Static HTML with capsule-linked JS evaluation

# 3. Capsule Binding Options

- declarative\_binding: link capsule to component metadata  
- runtime\_annotation: reference capsule ID in component logic  
- visual\_trace\_hook: capture user interaction via capsule-based listener  
- governance\_freeze\_hook: UI reactivity to override or treaty enforcement capsule

# 4. Example (React)

<SubmitButton  
 capsuleId="CAPSULE-FORM-SUBMIT"  
 roleGate="ROLE-APPROVER"  
 frozenIf="capsule('CAPSULE-POLICY-LOCK').state === 'active'"  
/>

# 5. CTO Summary

This integration module shows that MaxUXSuite enables audit-aware UI binding without forcing dependency on any framework. Capsule logic remains declarative and external, preserving UI independence and structural neutrality.