

# InsurAI

AI Microservice with 97% Test Coverage

Symfony 7

AWS Lambda

Bref

OpenAI

Structured  
Outputs

Web Components

**97%**

Test Coverage

**211**

Tests

**<2s**

Analysis Time

**50KB**

Widget Bundle

## The Challenge

Insurance policy documents are dense, inconsistent, and notoriously hard to parse. The goal was to build a microservice capable of extracting structured insights from raw policy text — coverage details, deductibles, exclusions, risk flags — reliably and at scale, with an embeddable widget that any developer could drop into their product in minutes.

## The Approach

Built on Symfony 7 and deployed serverlessly via AWS Lambda/Bref, the API leverages OpenAI Structured Outputs to guarantee consistent, typed responses regardless of policy format or jurisdiction. Rather than prompt engineering for free-form text, Structured Outputs enforces a strict schema — making responses predictable, parseable, and safe to use in production workflows.

The embeddable widget was built as a zero-dependency Web Component, under 50KB, with full light/dark theme support and custom event hooks for seamless integration into any existing product or platform.

## Results

- ✓ 97% test coverage across 211 tests
- ✓ Sub-2 second analysis time
- ✓ Production-ready embeddable widget deployable in 30 seconds
- ✓ Fully serverless — scales to zero, costs nothing at rest