

ARCHITECTURE PATTERNS

CSPA Architecture Patterns



INTRODUCTION TO CSPA ARCHETYPES

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**Business
Architecture**

Information Architecture

Application Architecture

Technology Architecture

GSBPM

GSIM

CSPA LIM

?

CSPA

CSPA 1.5

**We need to
address the gap
in the
specification to
make sharing
easier!**

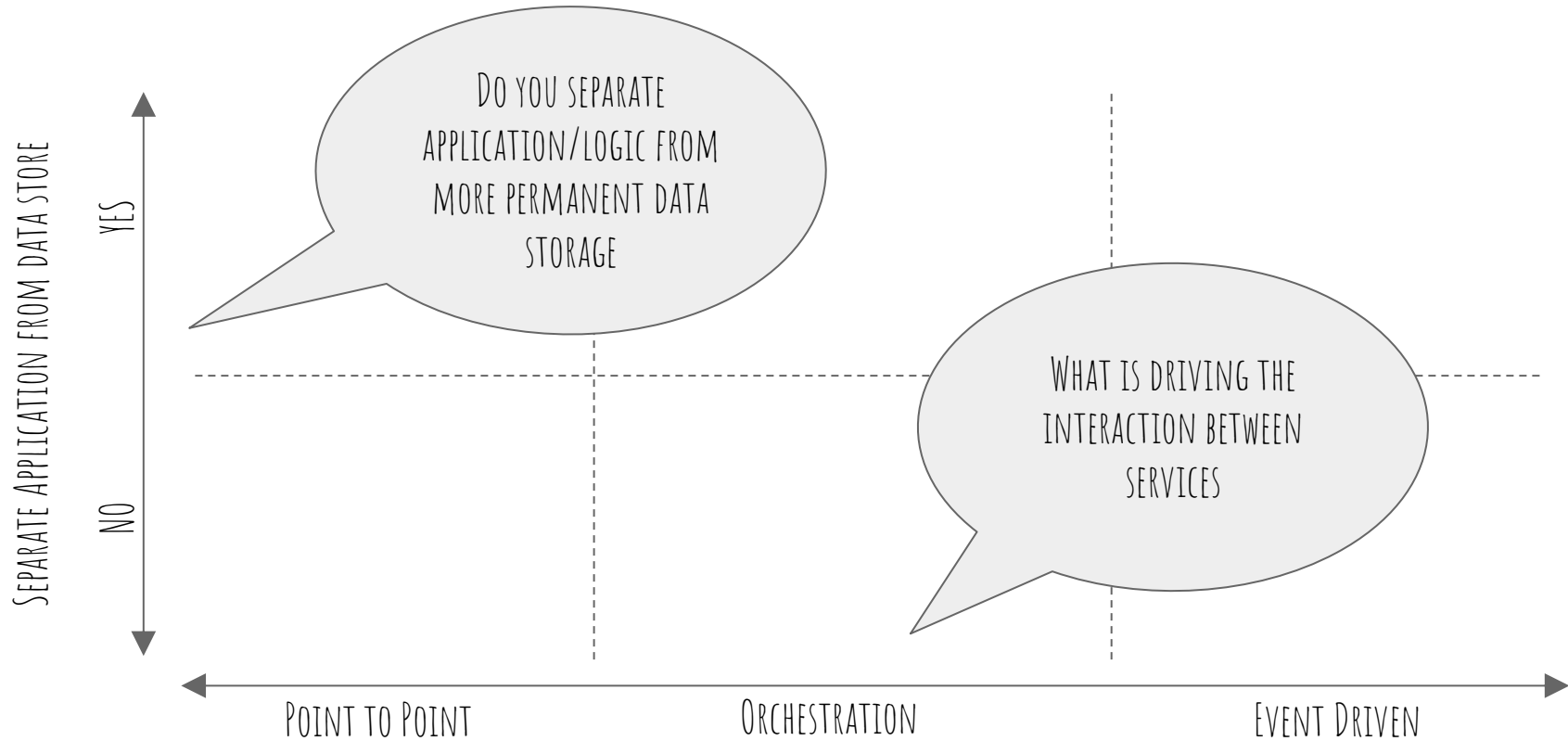
CSPA CHALLENGES TODAY

- CSPA provides guidance on how to design and develop statistical service
- Focus on conceptual and logical description (business and information view)
- From an Application and Infrastructure viewpoint, the specification remain mostly undetermined
- The latter influences greatly the cost of integration

CSPA ARCHETYPES

- Characterise the context for the use of CSPA services
- Link to the infrastructure set up
- Influence the technical implementation of the service

ARCHETYPES



EXAMPLE SCENARIO: WEB QUESTIONNAIRE & VALIDATION

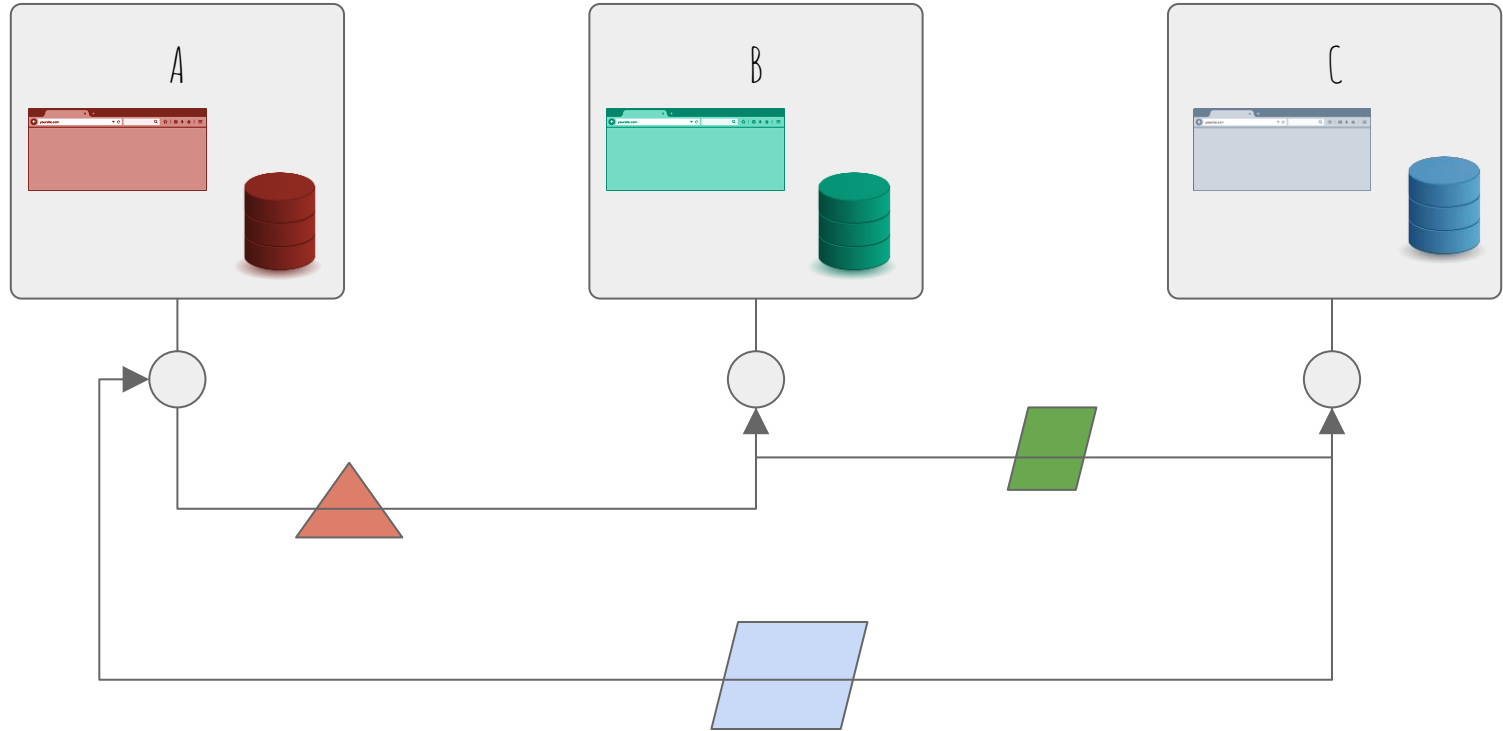
User Stories

1. Respondent enters response in a Web Questionnaire
2. NSI does some server side validation (e.g. based on historical data)
3. If the response is valid, it is stored as “Raw Input” for further processing

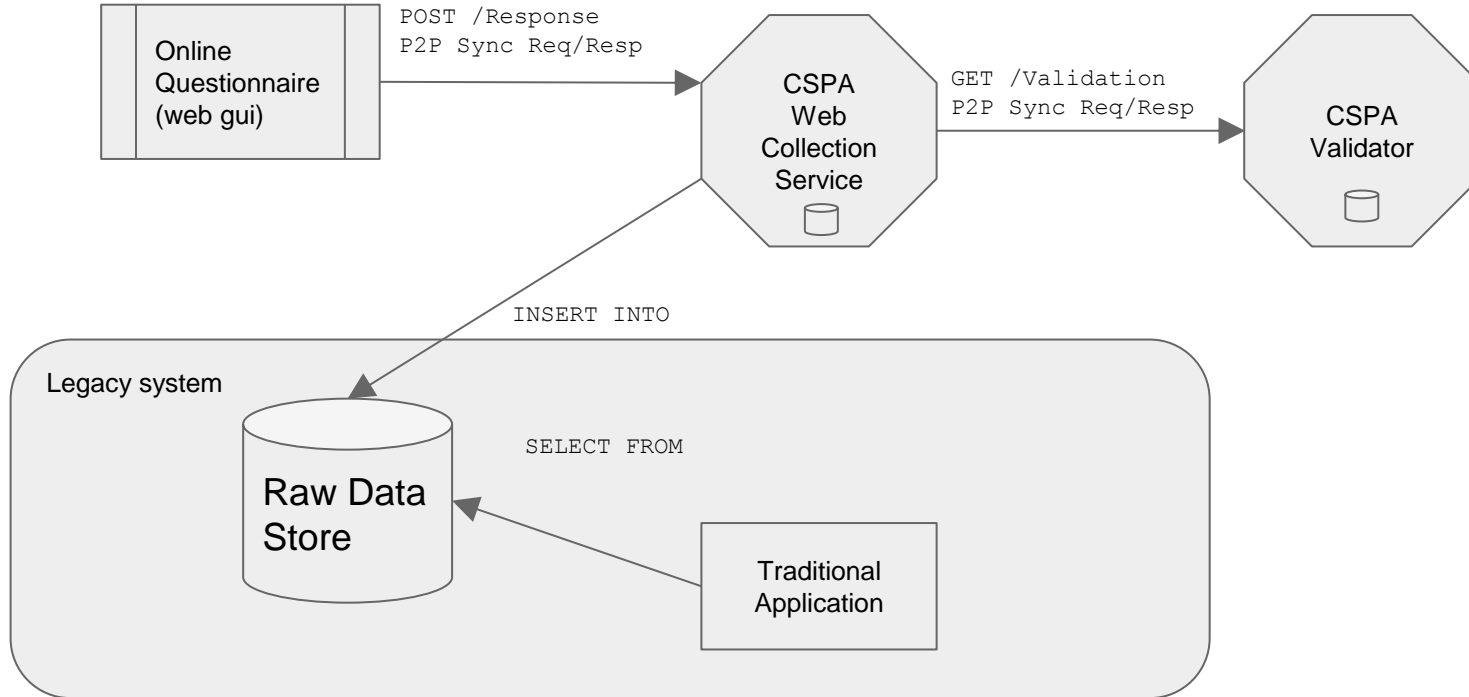
IT Components

- A. Web questionnaire Service
- B. Validation Service
- C. Data Storage

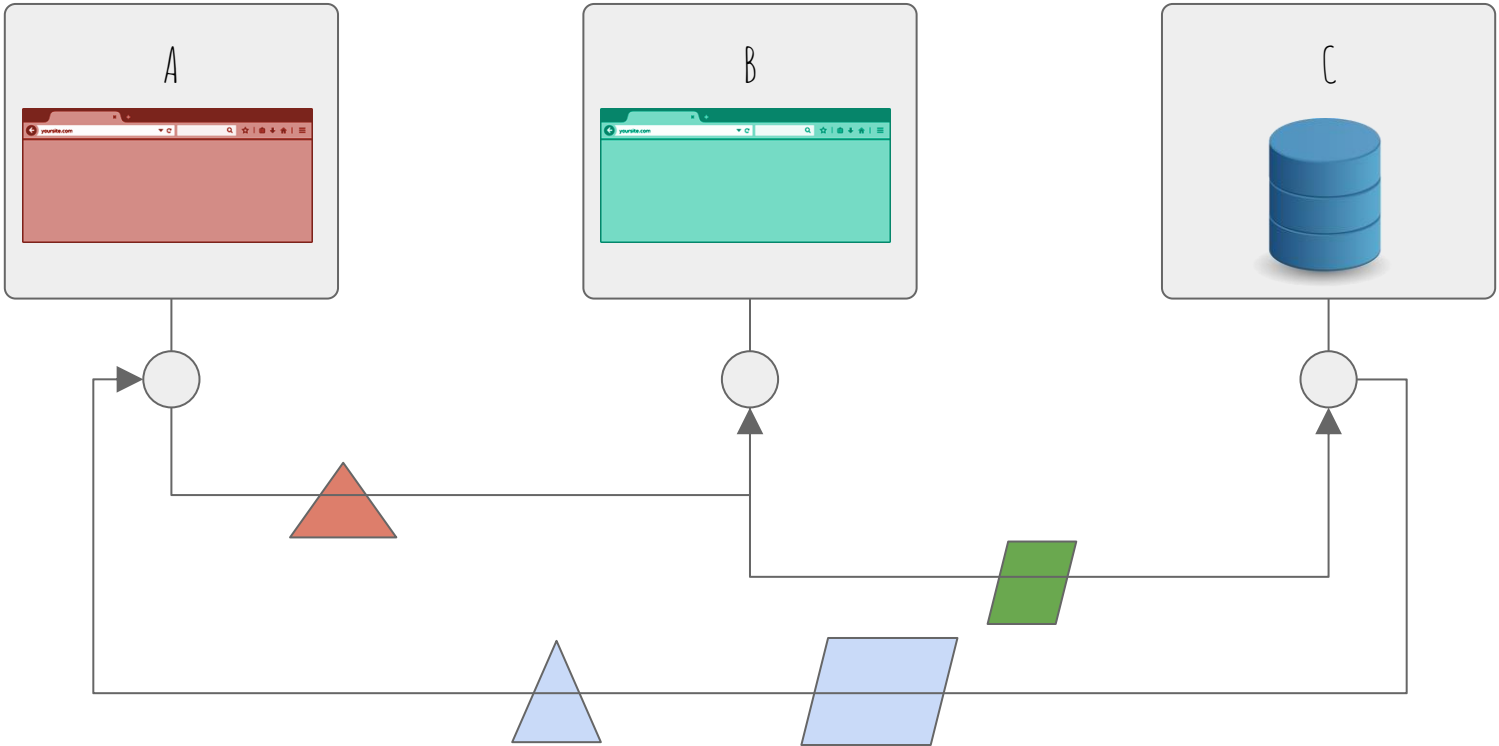
ARCHETYPE: P2P, BUNDLED



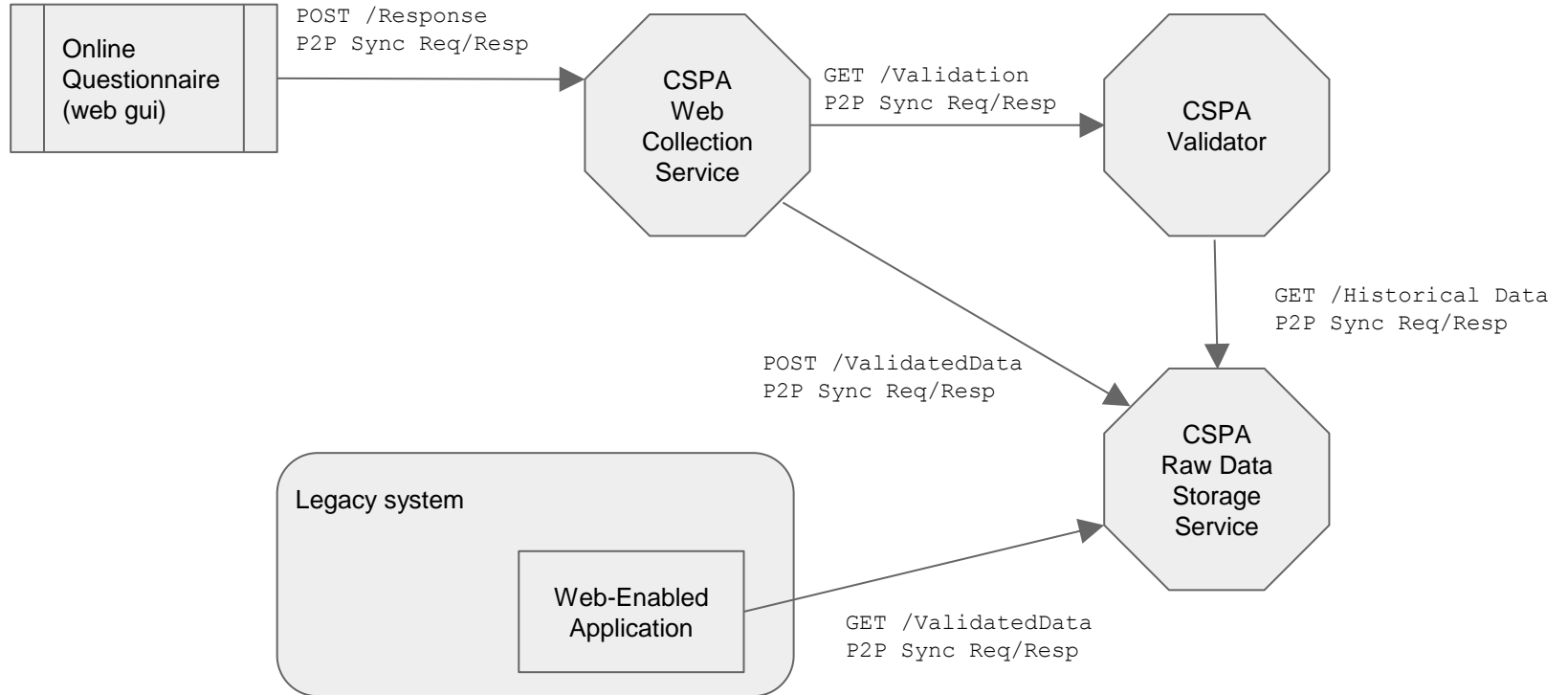
EXAMPLE IMPLEMENTATION (P2P, BUNDLED)



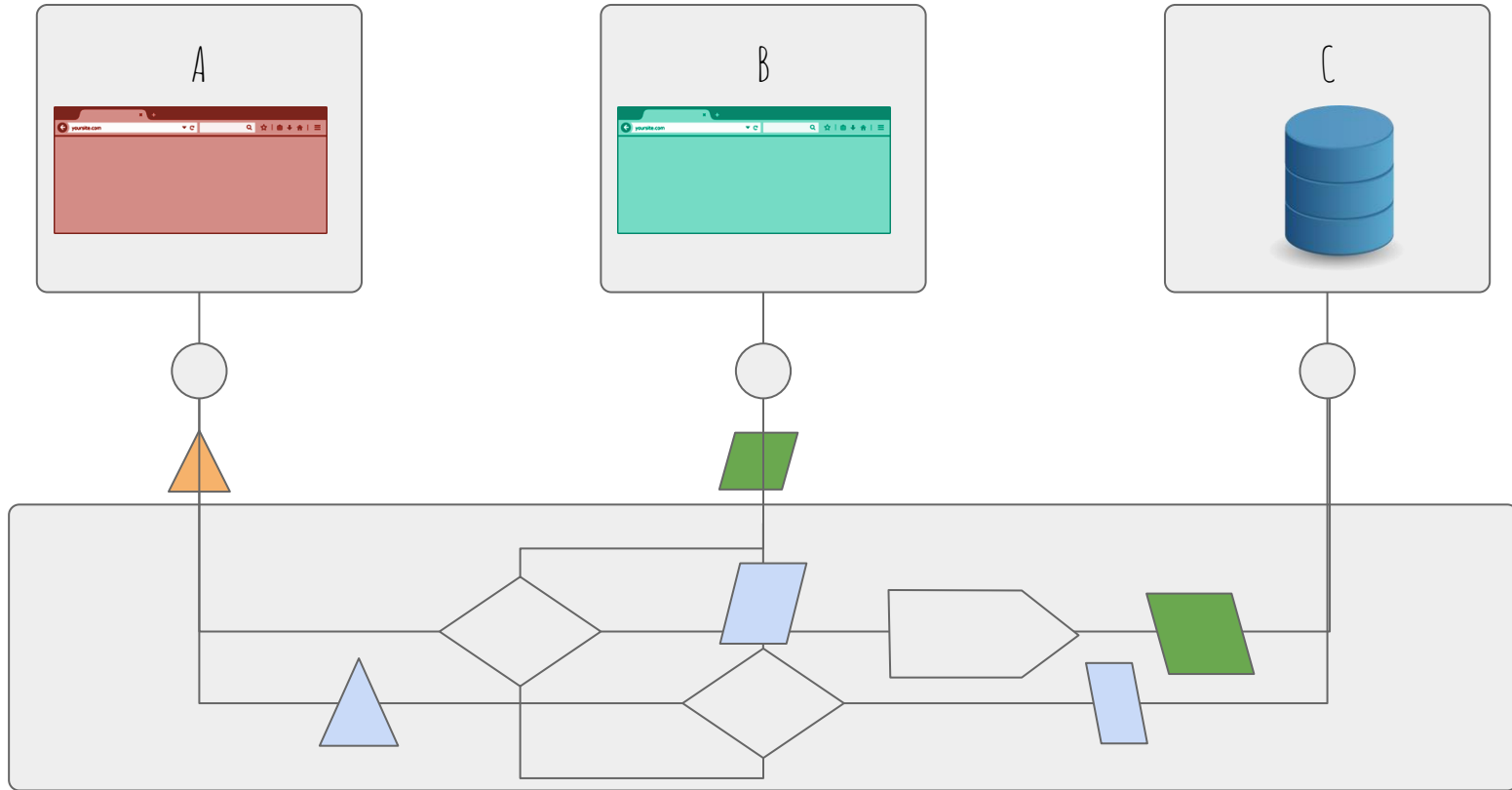
ARCHETYPE - P2P, SEPARATE



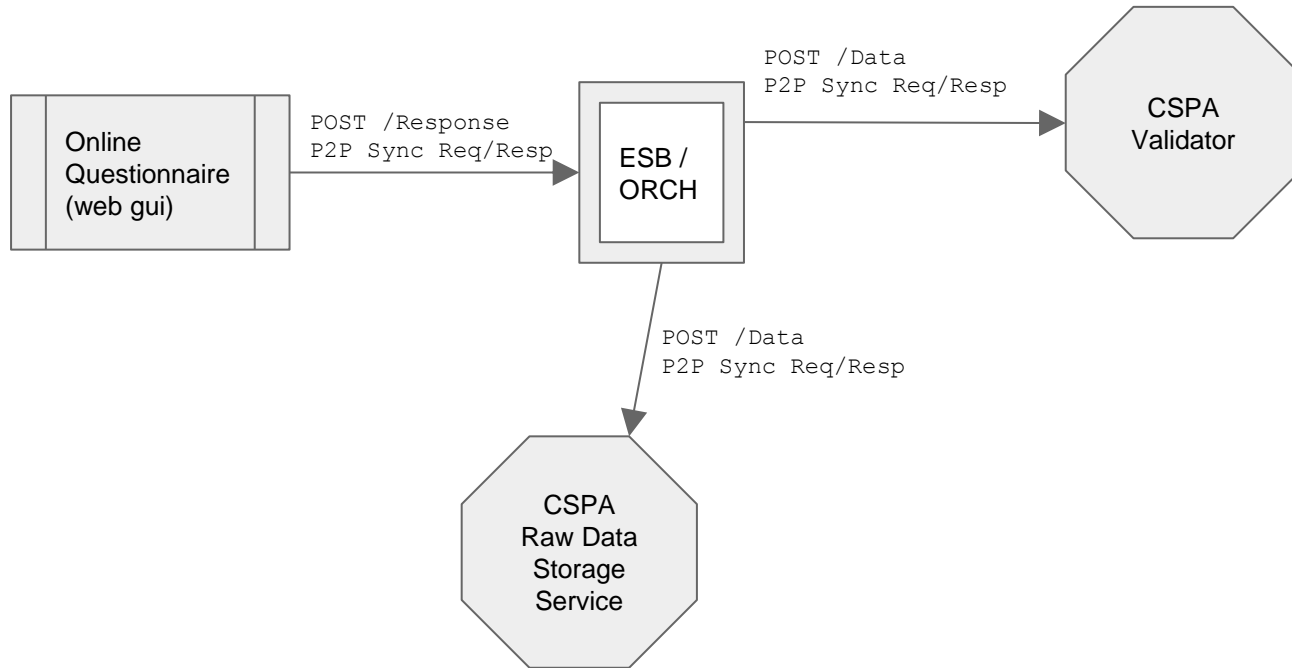
EXAMPLE IMPLEMENTATION (P2P, SEPARATE)



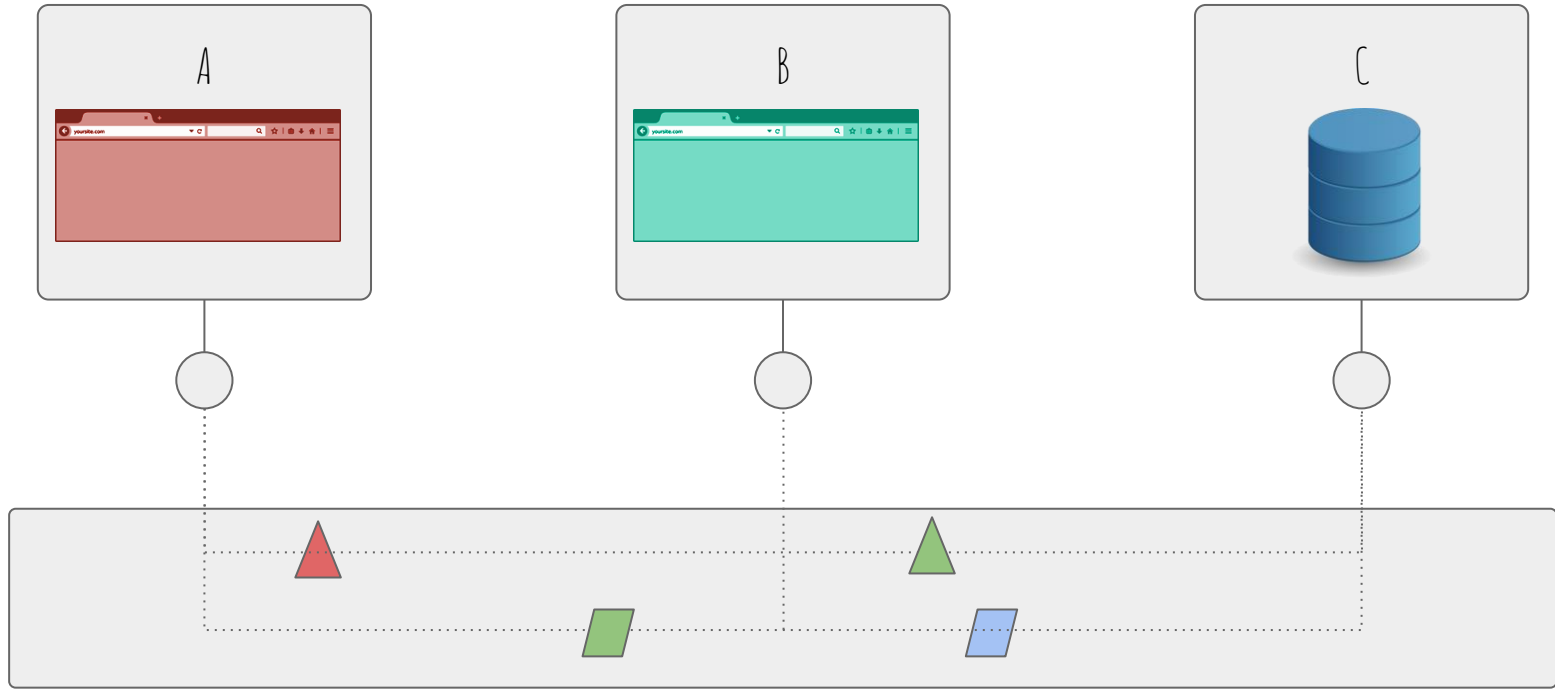
ARCHETYPE - ORCHESTRATION, SEPARATE



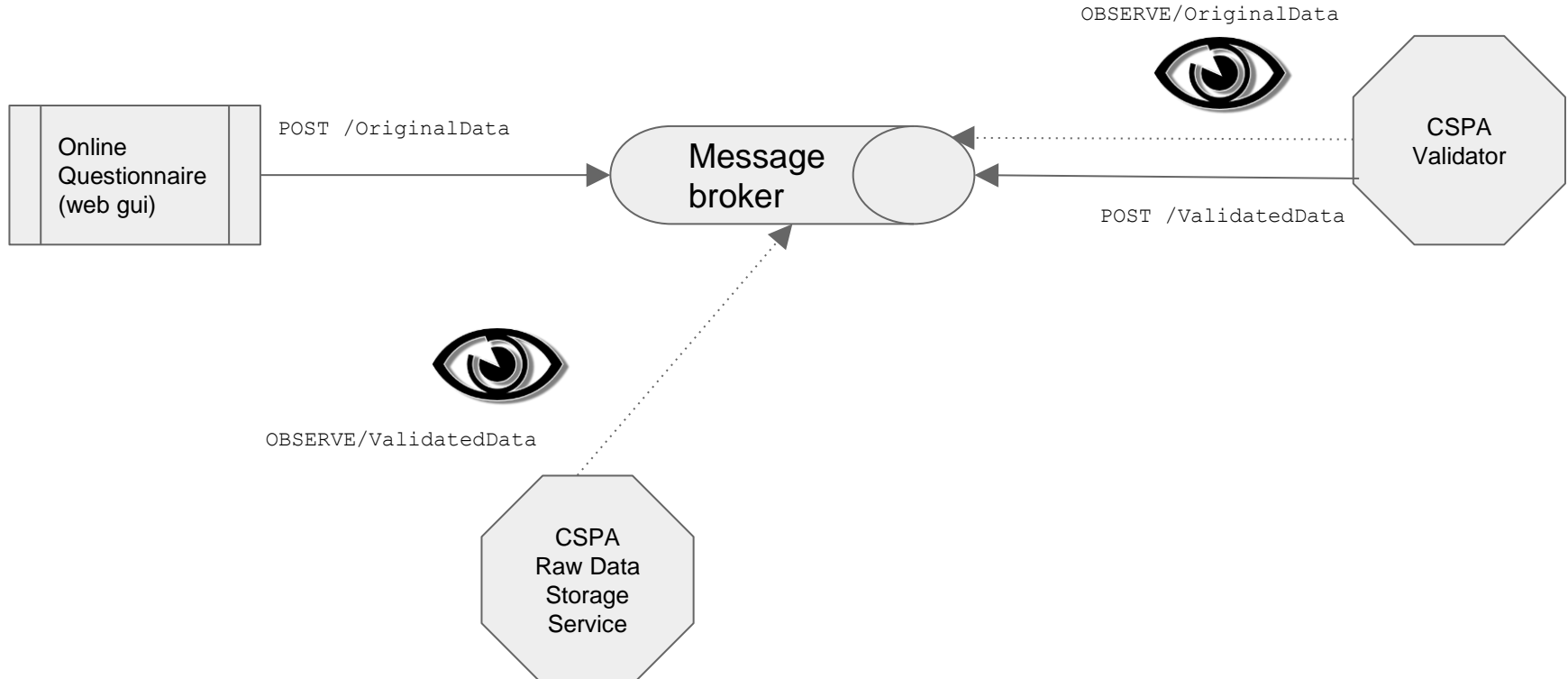
POSSIBLE IMPLEMENTATION (ORCHESTRATED, SEPARATE)



ARCHETYPE - EVENT DRIVEN, SEPARATE



POSSIBLE IMPLEMENTATION (EVENT DRIVEN, SEPARATE)



ARCHETYPES & CSPA COMPLIANCE

Should we try to agree on one technical integration standard?

In any case, we should separate archetype-specific aspects of services from archetype-independent aspects

CSPA Modules to the rescue!