Microservice Architecture (/index.html)

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# Pattern: Server-side page fragment composition

### Context

You have applied the Microservice architecture pattern (../microservices.html). Services are developed by business capability (../decomposition/decompose-by-business-capability.html)/subdomain (../decomposition/decompose-by-subdomain.html)-oriented teams that are also responsible for the user experience. Some UI screens/pages display data from multiple service. Consider, for example, an Amazon-style product detail page, which displays numerous data items including:

- Basic information about the book such as title, author, price, etc.
- Your purchase history for the book
- Availability
- · Buying options
- · Other items that are frequently bought with this book
- · Other items bought by customers who bought this book
- · Customer reviews
- Sellers ranking
- ..

Each data item corresponds to a separate service and how it is displayed is, therefore, the responsibility of a different team.

#### **Problem**

How to implement a UI screen or page that displays data from multiple services?

#### **Forces**

## Solution

Each team developers a web application that generates the HTML fragment that implements the region of the page for their service. A UI team is responsible for developing the page templates that build pages by performing server-side aggregation (e.g. server-side include style mechanism) of the service-specific HTML fragments.

# Related patterns

The Client-side UI composition (client-side-ui-composition.html) pattern is an alternative approach

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