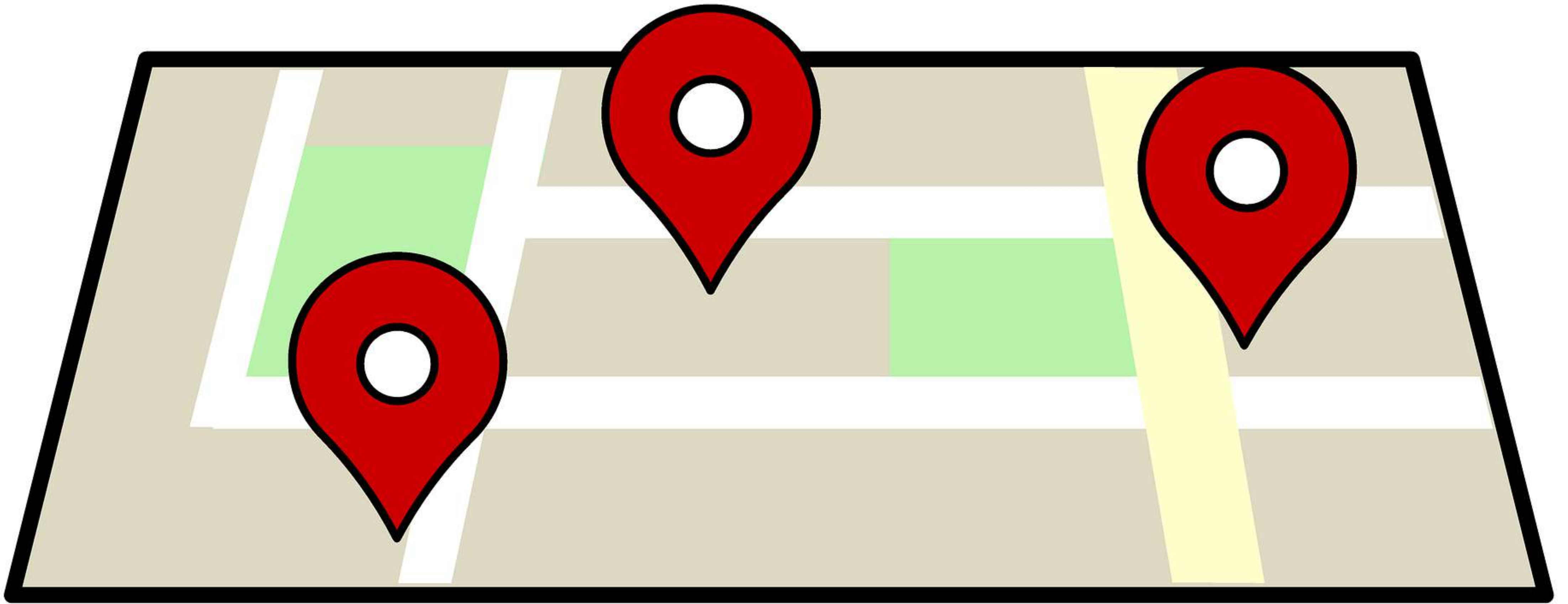


Airbnb at Scale Essential Lessons from Our Journey to SOA



San Francisco, CA





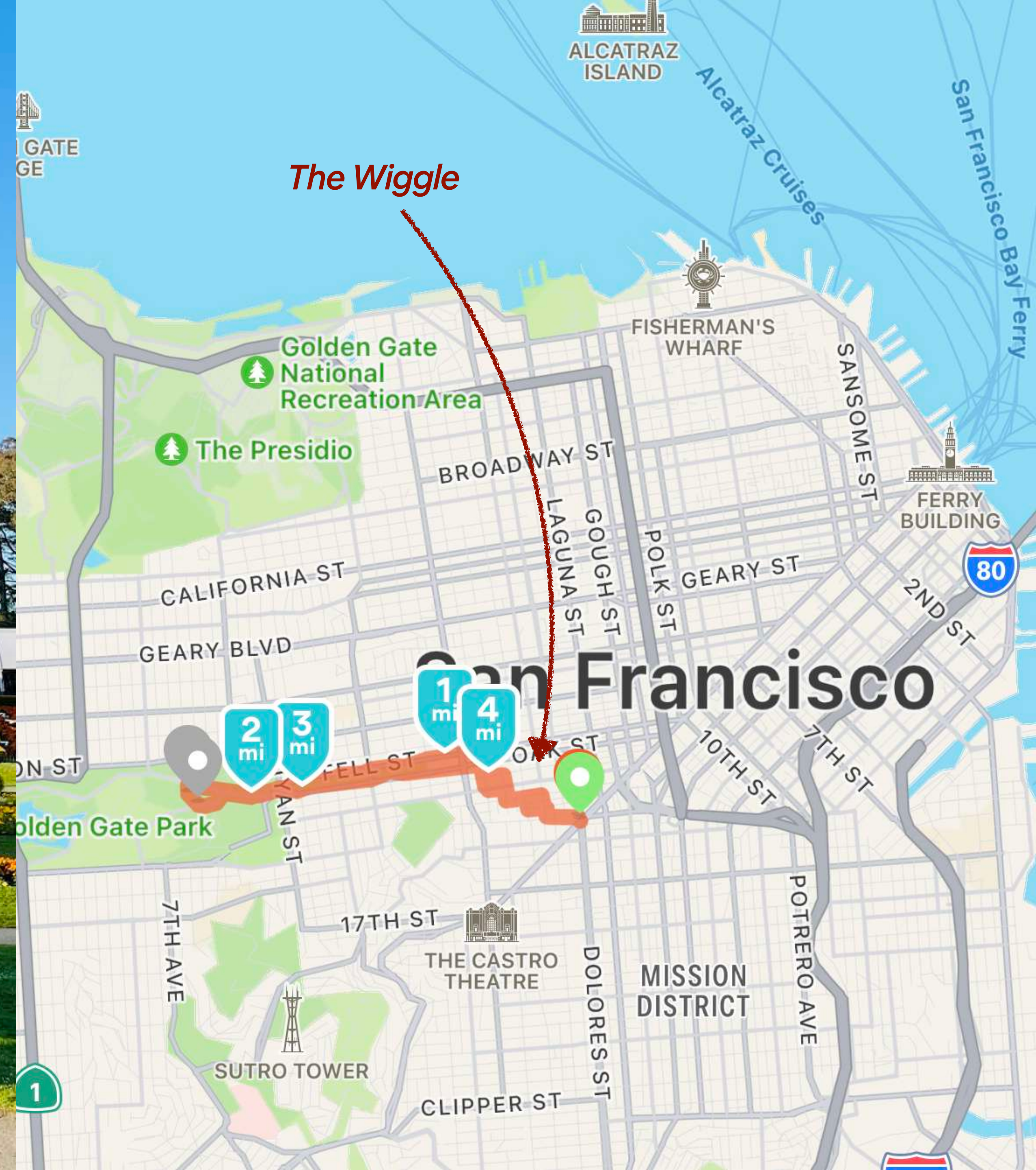


Hi, I am Selina.



Fun Fact: Pandemic Ritual

📍 Conservatory of Flowers





Invest in common infra early

Simplify service dependencies

Platformize data hydration

Unify client-facing API

Invest in common infra early

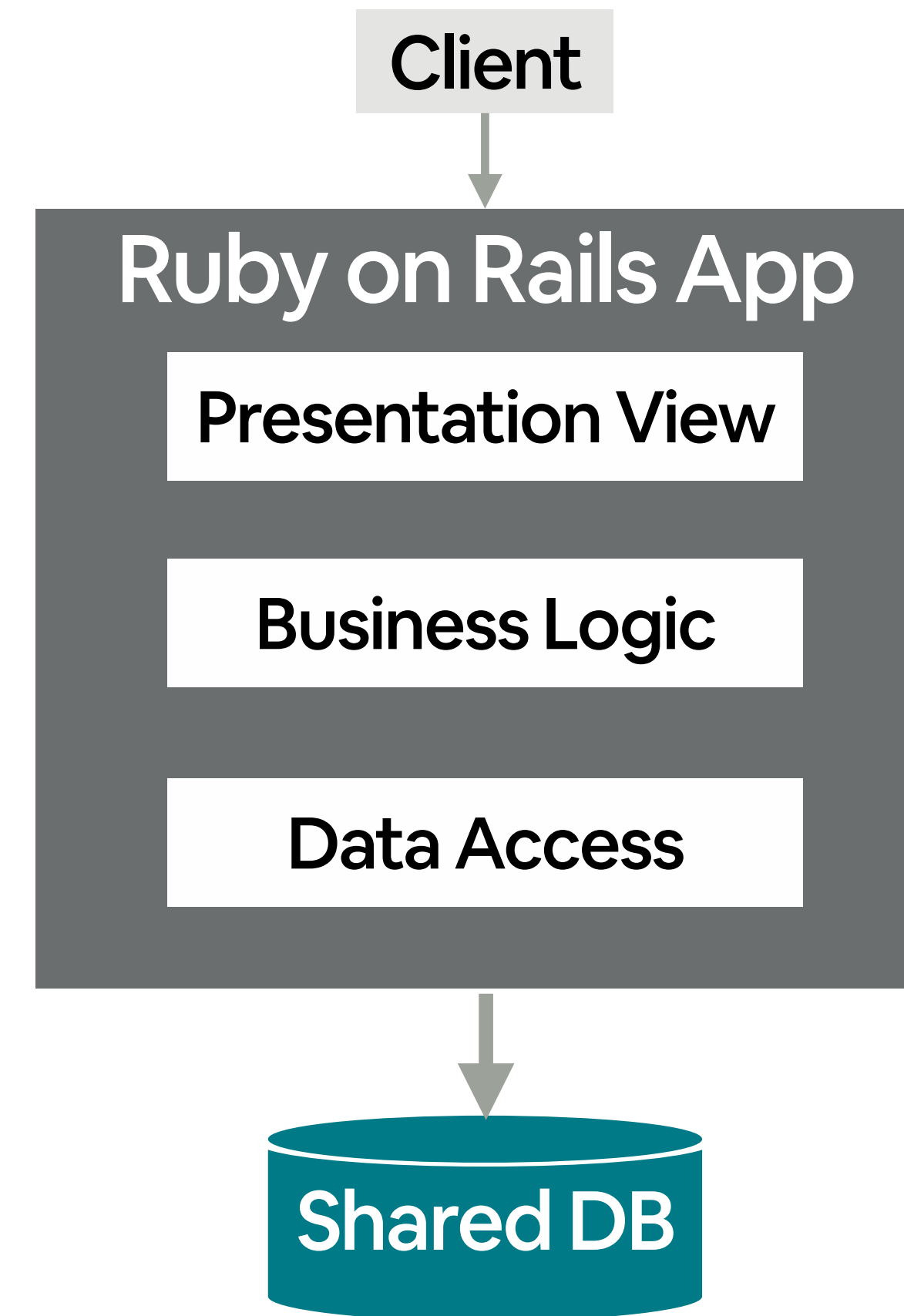
Simplify service dependencies

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Unify client-facing API

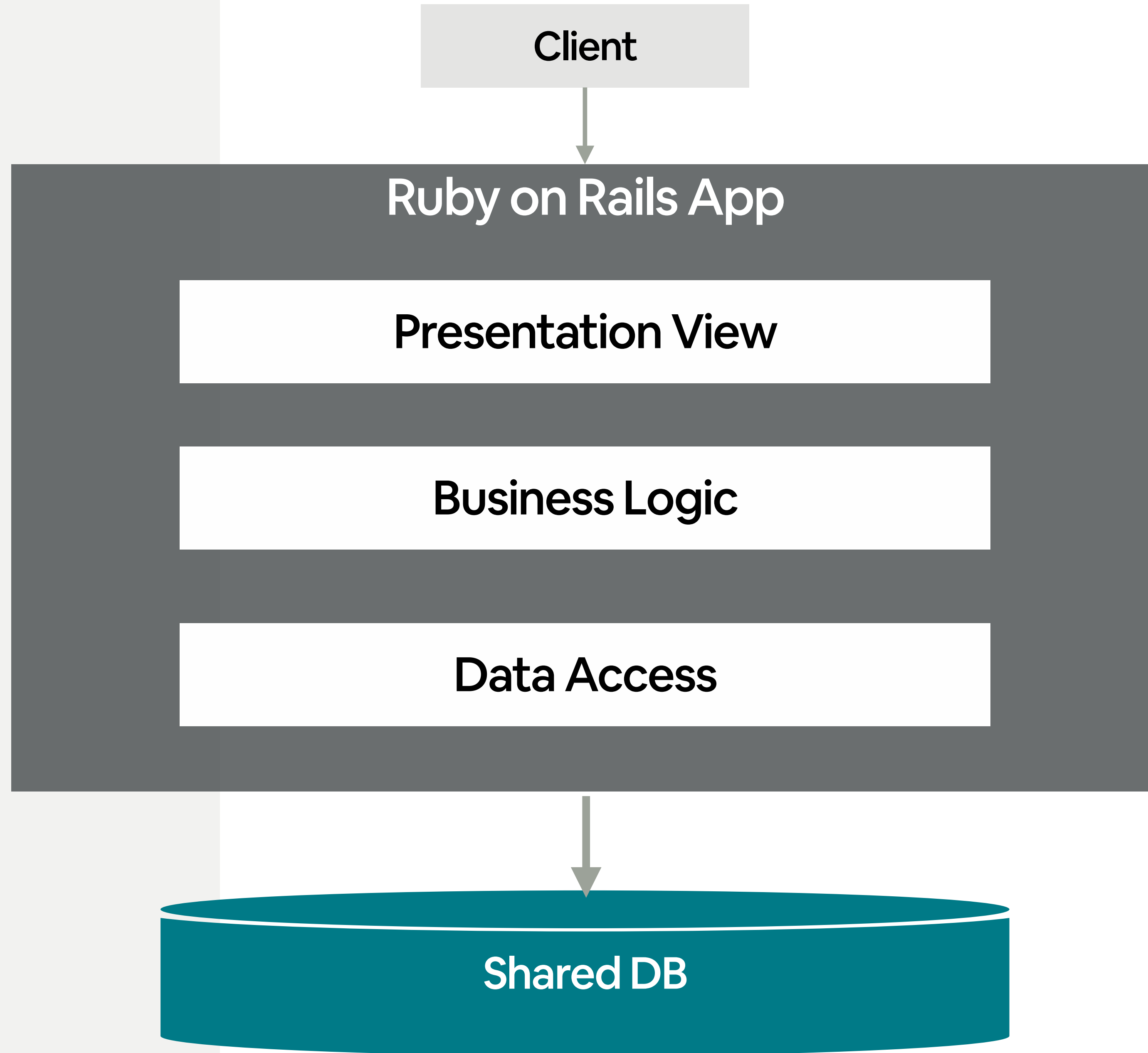
Monolith

BACK IN THE DAY



Monolith

BACK IN THE DAY

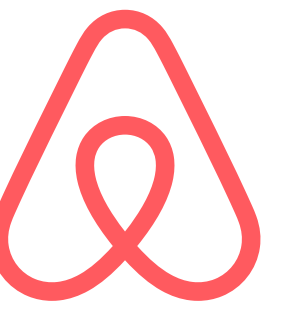
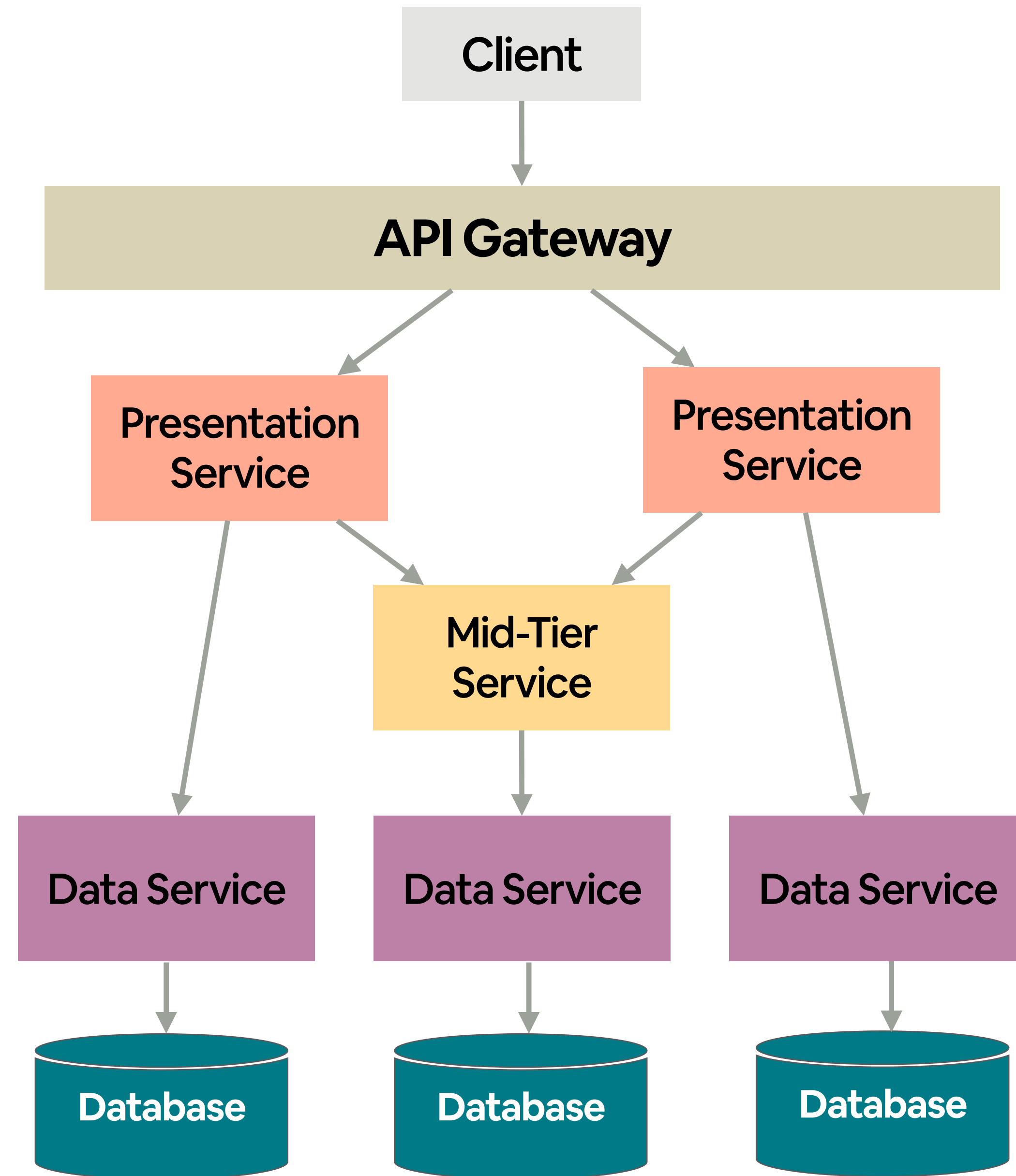


The Monorail



Service-Oriented Architecture

STARTING IN 2018



A CASE STUDY

Host Reservation Details

(HRD for short)



**HOSTED BY MARIA
MEDELLÍN, COLOMBIA**

TodayInbox1CalendarInsightsMenu

All messages

Search inbox

C

Trip requested

Christopher

New event

Mar 19 – 23, 2022 · Your Park City Base

8:47 PM

Christopher

8:47 PM

To protect your payment, always communicate and pay through the Airbnb website or app.

If a guest has a profile photo, it'll be displayed after their booking is confirmed. [Learn more](#)

C

Christopher

Hi Maria, I'm looking forward to a trip to Colombia this March. Please let me know if you need anything else from me.

Request received · 5 guests, Mar 19 - Mar 23

Type a message

Reservation details

TRIP REQUESTED

Christopher

5 guests · 4 nights · \$1,247.42

Stunning Penthouse

C

You just got a request for Mar 19 – 23. Accept if you can host, or decline if these dates don't work for you.

Decide within 23:46:22 to maintain your response rate.

Accept

Decline

Protected by the Airbnb Host Guarantee and Host Protection Insurance.

★ 0 reviews

🏠 Joined in October 2021

[View profile](#)

Guests

5 adults

Check-in

Sat, Mar 19, 2022

@selinahliu



TRIP REQUESTED

Christopher

5 guests · 4 nights · \$1,247.42
Stunning Penthouse

You just got a request for Mar 19 – 23.
Accept if you can host, or decline if these
dates don't work for you.

Decide within 23:19:23 to maintain your
response rate.

Accept

Decline



Protected by the Airbnb [Host Guarantee](#)
and [Host Protection Insurance](#)

★ 16 reviews

Verified

Joined in September 2016

Lives in Brussels, Belgium

Speaks English, French

[View profile](#)

User

Payment

Listing

Trust

Reviews

User

✕

TRIP REQUESTED

Christopher

5 guests · 4 nights · \$1,247.42

Stunning Penthouse

You just got a request for Mar 19 – 23.
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Decide within 23:19:23 to maintain your
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Accept

Decline

Protected by the Airbnb [Host Guarantee](#)
and [Host Protection Insurance](#)

★ 16 reviews

Verified

Joined in September 2016

Lives in Brussels, Belgium

Speaks English, French

[View profile](#)

@selinahliu

[Message](#)

Guests 4 adults, 1 child

Check-in Sat, Mar 19, 2022

Checkout Wed, Mar 23, 2022

[View calendar](#)

Potential earnings

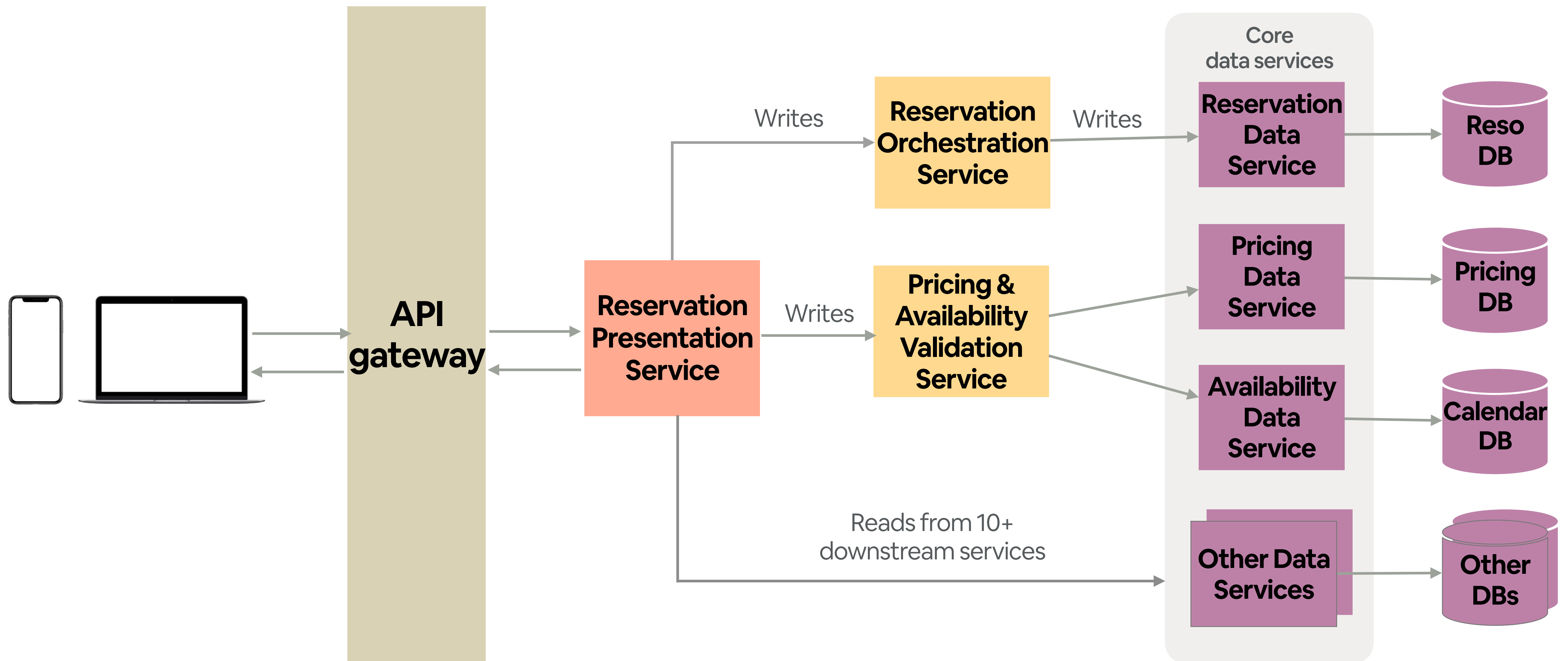
\$230.00 × 5 nights	\$1,150.00
Cleaning fee	\$50.00
Service fee	-\$36.58

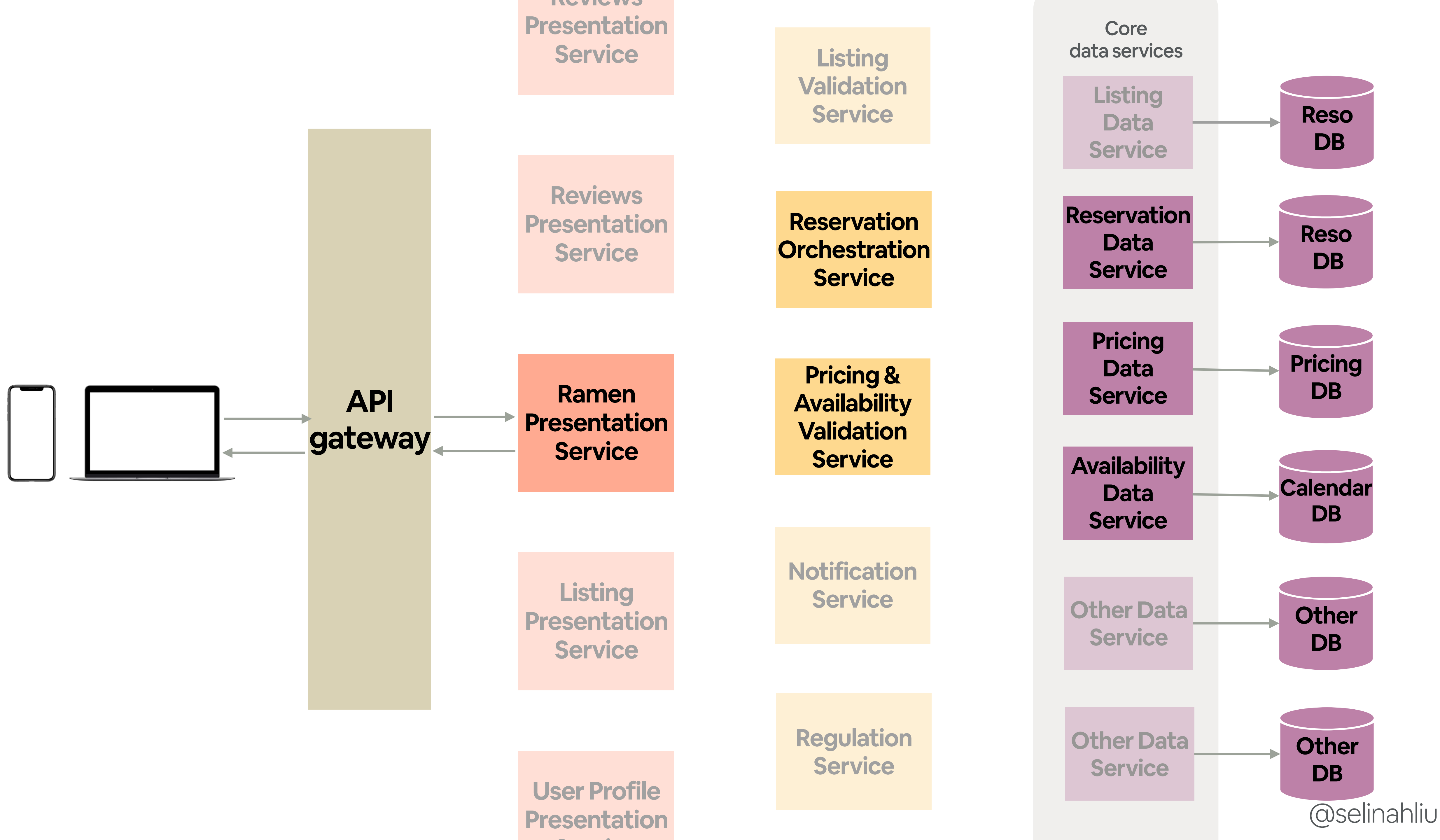
Total (USD) \$1,247.42

[Report user](#)

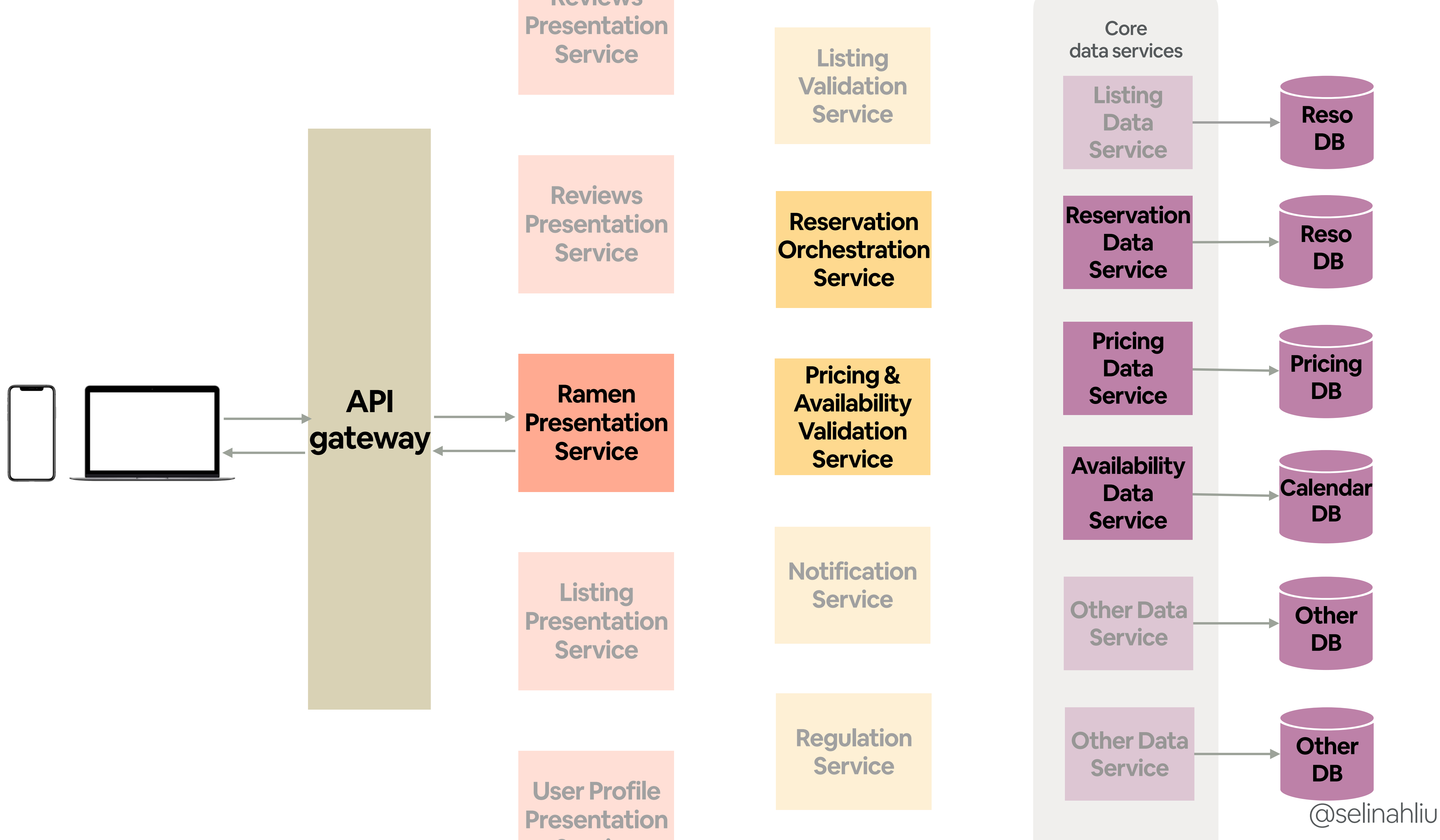
[Help](#)

Frequently asked questions









SOA by the numbers

400+

Online services

1700+

Deploys a day

Common Infra

BUILDING BLOCKS FOR SOA

Common Infra

BUILDING BLOCKS FOR SOA

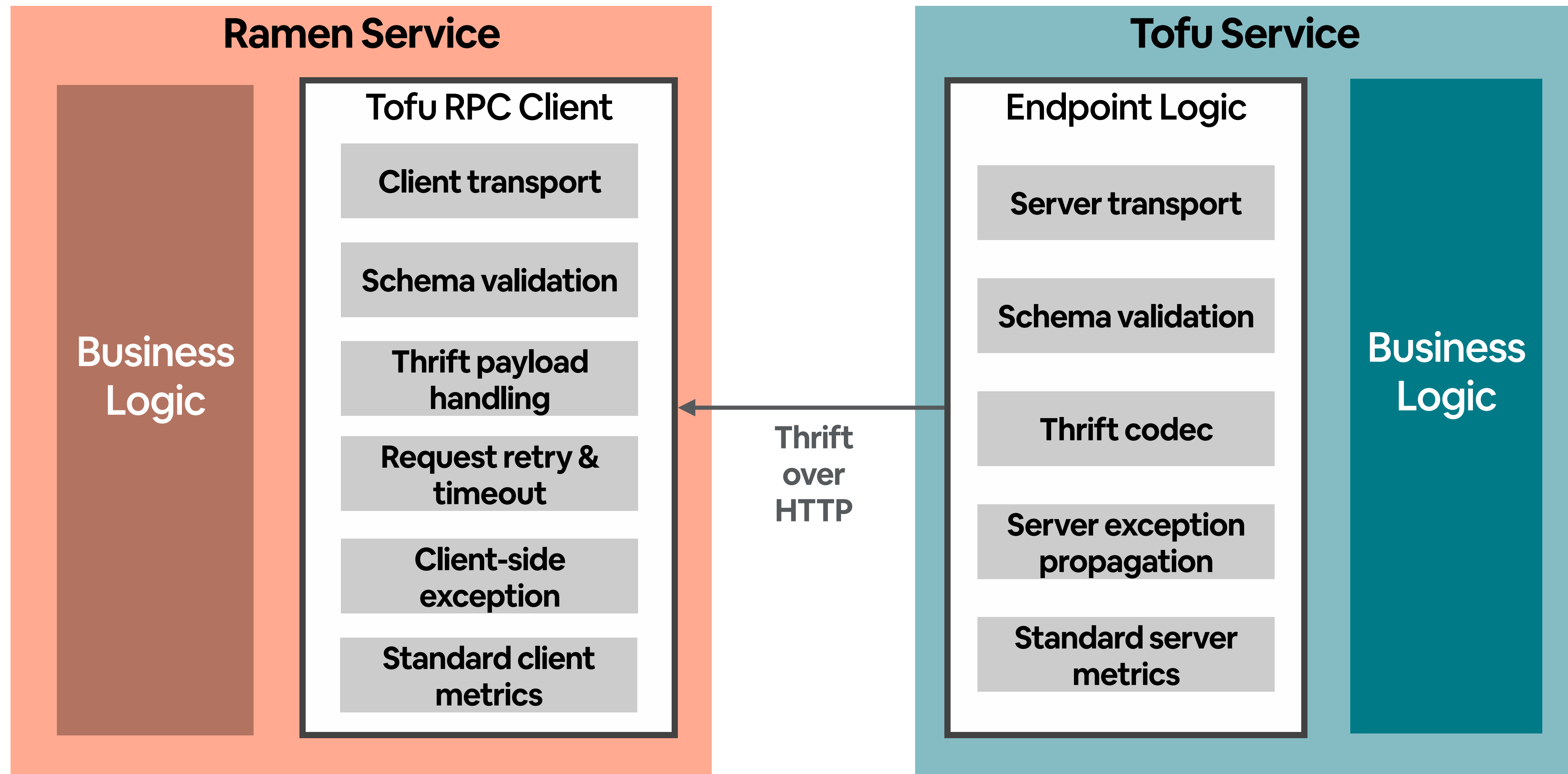


API Framework

Define clean, strongly
typed API in Thrift

API framework

INTER-SERVICE COMMUNICATION





RENDERED

RAW JSON



tofu

Tofu

JAVA

slacks: #tofu-team

dashboards: [Standard Service Metrics](#), [Standard Client Metrics](#), [Custom Metrics](#)

doc link: www.some-link.com/tofu/onepager

description: [Mid-tier service serving tofu data.](#)

Search Tofu schema (50 structs, 124 fields) ...



loadSomeTofu

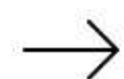
RPC

Idempotent

Debug →

This endpoint loads tofu data given a tofuld

LoadSomeTofuRequest



LoadSomeTofuResponse



loadSomeTofu

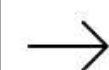
RPC

Idempotent

Debug →

This endpoint loads tofu data given a tofuld

LoadSomeTofuRequest



LoadSomeTofuResponse

Fill in headers fields that you need:

Check out request context full list

Send

```
1 {  
2   "APP-CLIENT-I18N-LANGUAGE": "en",  
3   "APP-CLIENT-I18N-FULL-LOCALE": "mn",  
4   "APP-CLIENT-USERID": "55500",  
5   "APP-CLIENT-COUNTRY": "MN",
```

Fill in request fields that you need:

```
1 {  
2   "tofuId": null  
3 }
```

Response:

expand response ↗

▶ {} 0 items

Common Infra

BUILDING BLOCKS FOR SOA

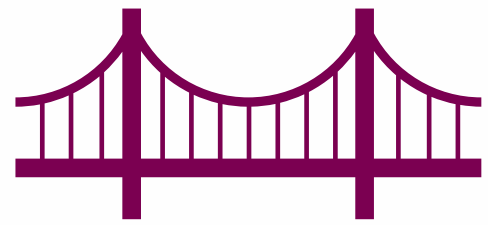


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Define clean, strongly
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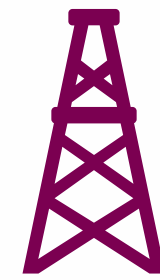
Common Infra

BUILDING BLOCKS FOR SOA



API Framework

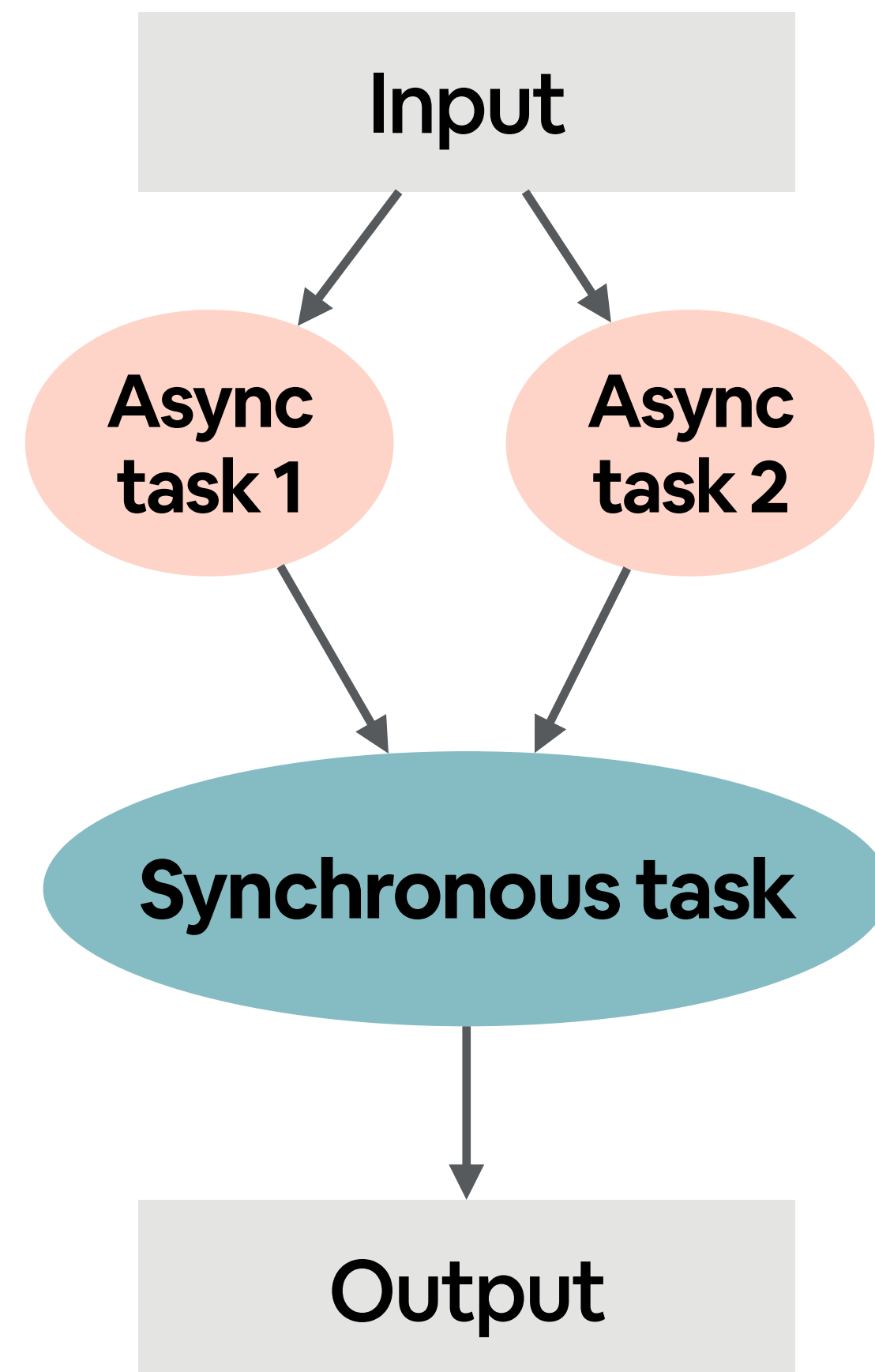
Define clean, strongly typed API in Thrift



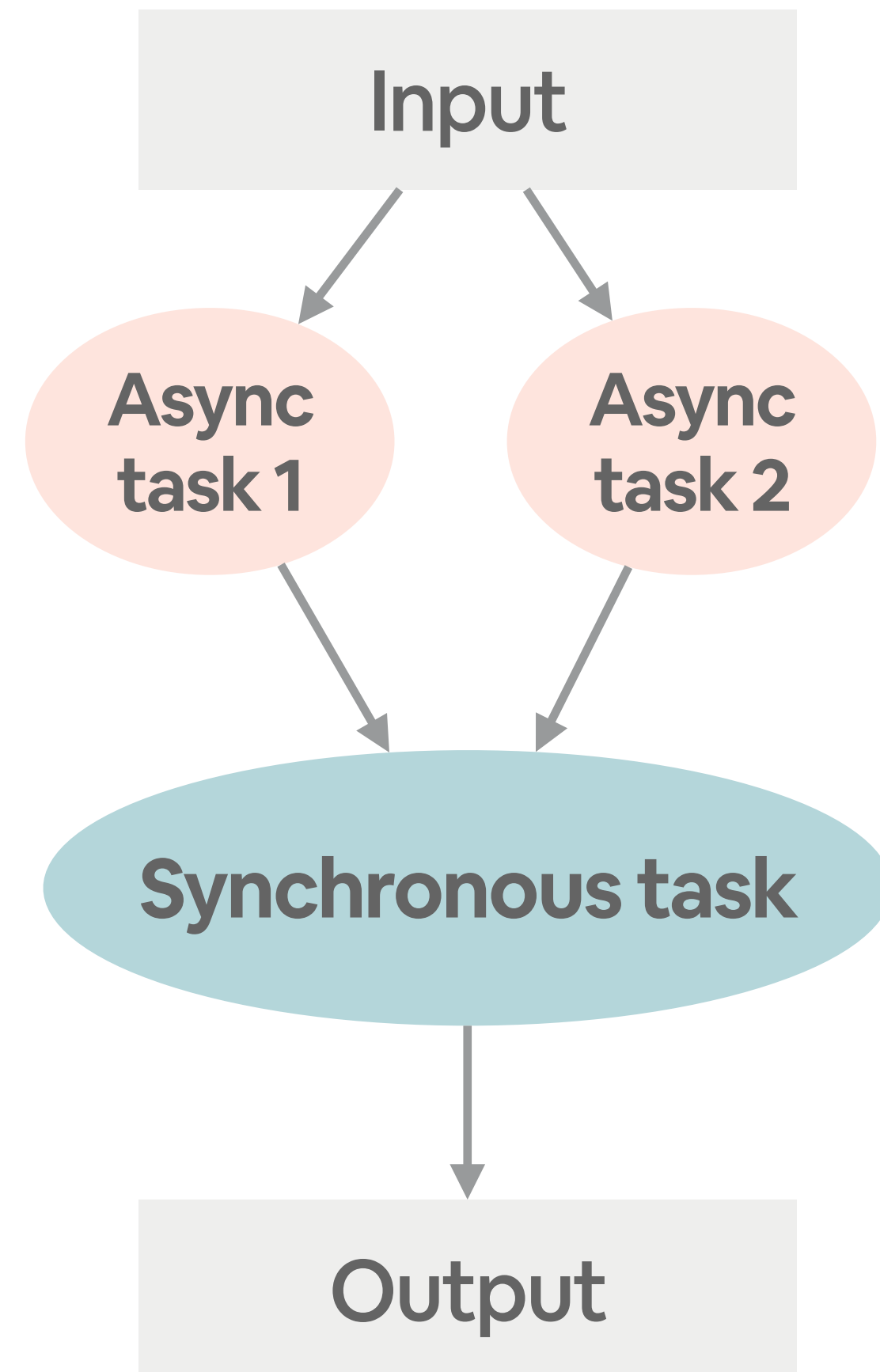
Powergrid

Execute tasks in parallel

HOW POWERGRID WORKS

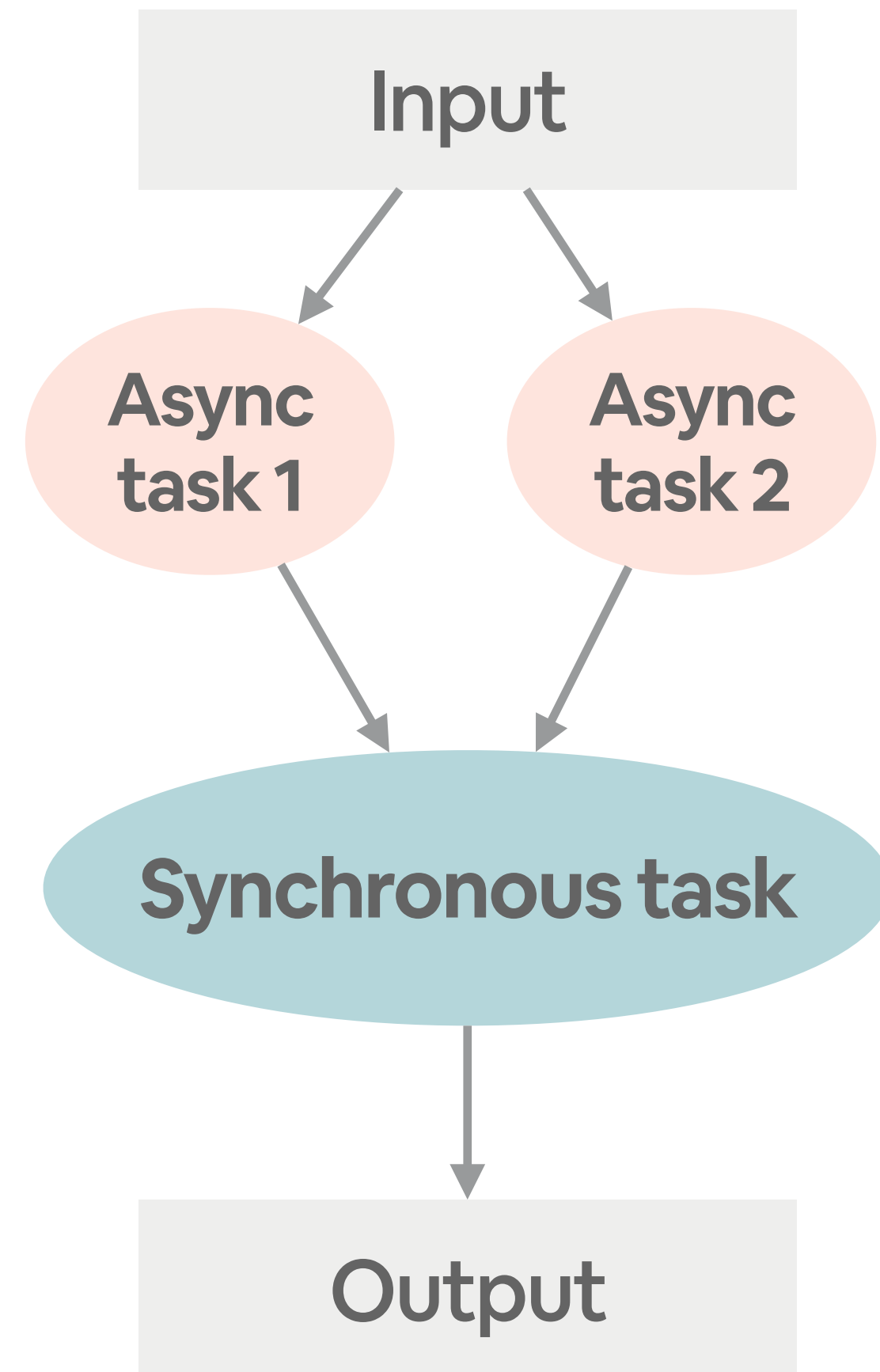


HOW POWERGRID WORKS

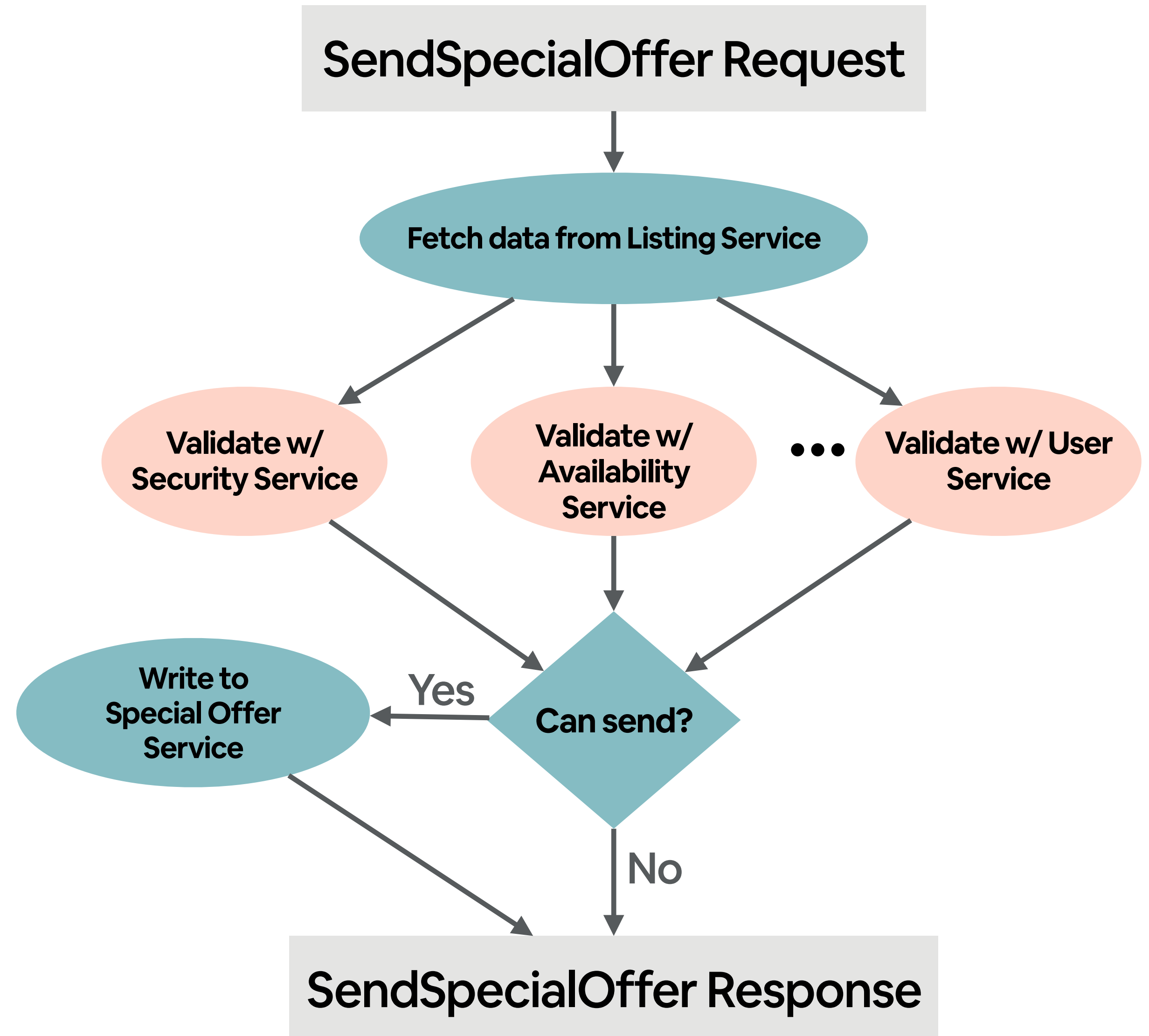


EXAMPLE: HOW RAMEN SERVICE USES POWERGRID

HOW POWERGRID WORKS

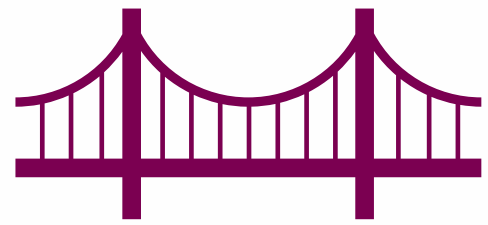


EXAMPLE: HOW RAMEN SERVICE USES POWERGRID



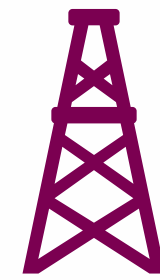
Common Infra

BUILDING BLOCKS FOR SOA



API Framework

Define clean, strongly typed API in Thrift

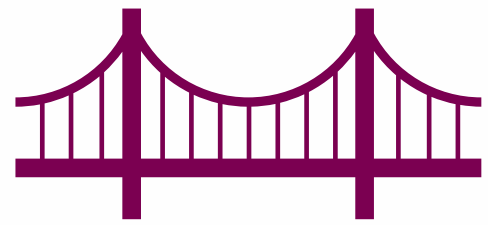


Powergrid

Execute tasks in parallel

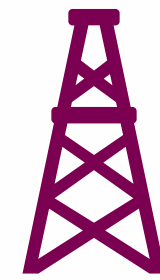
Common Infra

BUILDING BLOCKS FOR SOA



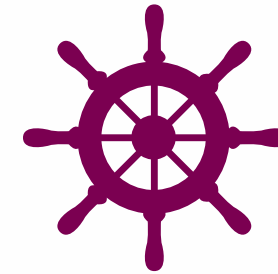
API Framework

Define clean, strongly typed API in Thrift



Powergrid

Execute tasks in parallel



OneTouch

Configure and manage services

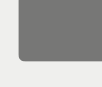
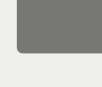
OneTouch

ONE PLACE FOR ALL CONFIGS

```
>  ramen
  >  src
    >  infrastructure
      >  ci
      >  docker
      >  alerts
      >  logging
         generator.yml
         project.yml
```

OneTouch

ONE PLACE FOR ALL CONFIGS

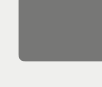
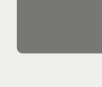
```
>  ramen
  >  src
  >  infrastructure
    >  ci
    >  docker
    >  alerts
    >  logging
       generator.yml
       project.yml
```

ONE TOOL TO DEPLOY TO ALL ENVS

```
$ cd path/to/ramen
$ ENV=test k all
```

OneTouch

ONE PLACE FOR ALL CONFIGS

```
>  ramen
  >  src
  >  infrastructure
    >  ci
    >  docker
    >  alerts
    >  logging
       generator.yml
       project.yml
```

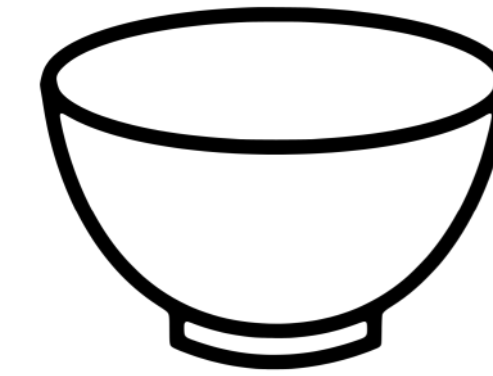
ONE TOOL TO DEPLOY TO ALL ENVS

```
$ cd path/to/ramen
$ ENV=test k all
```



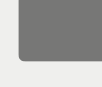
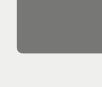
```
$ cd path/to/ramen
$ ENV=test k generate
$ ENV=test k build
$ ENV=test k deploy
```

OneTouch



test

ONE PLACE FOR ALL CONFIGS

```
>  ramen
  >  src
  >  infrastructure
    >  ci
    >  docker
    >  alerts
    >  logging
       generator.yml
       project.yml
```

ONE TOOL TO DEPLOY TO ALL ENVS

```
$ cd path/to/ramen
$ ENV=test k all
```



```
$ cd path/to/ramen
$ ENV=test k generate
```

OneTouch



test

⚙️ ONE PLACE FOR ALL CONFIGS

```
> 📁 ramen
  > 📁 src
  > 📁 infrastructure
    > 📁 ci
    > 📁 docker
    > 📁 alerts
    > 📁 logging
      📄 generator.yml
      📄 project.yml
```

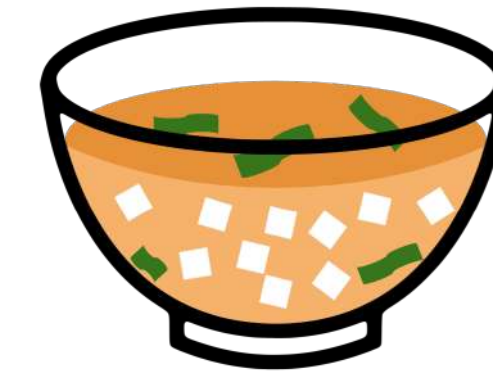
✅ ONE TOOL TO DEPLOY TO ALL ENVS

```
$ cd path/to/ramen
$ ENV=test k all
```



```
$ cd path/to/ramen
$ ENV=test k generate
$ ENV=test k build
```

OneTouch



test

⚙️ ONE PLACE FOR ALL CONFIGS

```
> 📁 ramen
  > 📁 src
  > 📁 infrastructure
    > 📁 ci
    > 📁 docker
    > 📁 alerts
    > 📁 logging
      📄 generator.yml
      📄 project.yml
```

✅ ONE TOOL TO DEPLOY TO ALL ENVS

```
$ cd path/to/ramen
$ ENV=test k all
```



```
$ cd path/to/ramen
$ ENV=test k generate
$ ENV=test k build
$ ENV=test k deploy
```

OneTouch



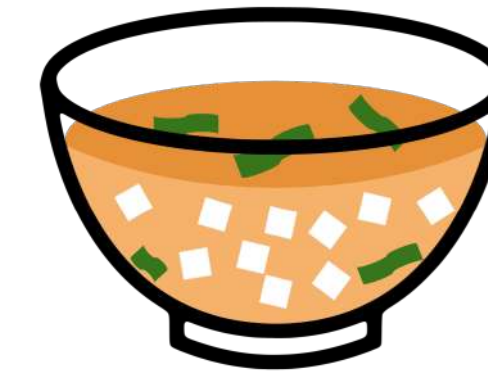
production



canary



staging



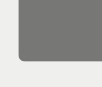
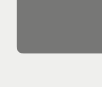
test



development



ONE PLACE FOR ALL CONFIGS

```
>  ramen
  >  src
  >  infrastructure
    >  ci
    >  docker
    >  alerts
    >  logging
       generator.yml
       project.yml
```



ONE TOOL TO DEPLOY TO ALL ENVS

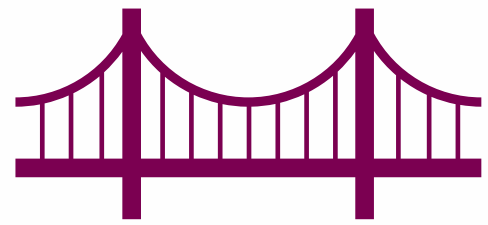
```
$ cd path/to/ramen
$ ENV=test k all
```



```
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$ ENV=test k generate
$ ENV=test k build
$ ENV=test k deploy
```

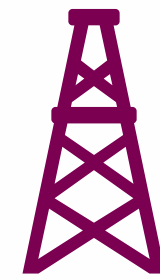
Common Infra

BUILDING BLOCKS FOR SOA



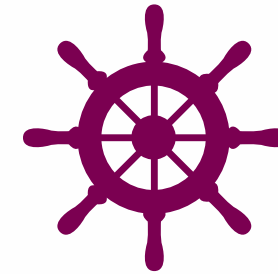
API Framework

Define clean, strongly typed API in Thrift



Powergrid

Execute tasks in parallel

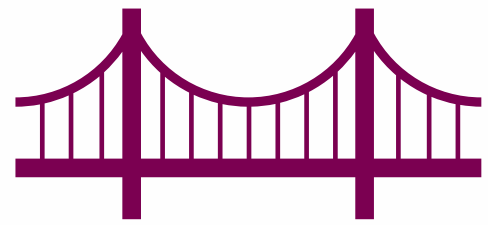


OneTouch

Configure and manage services

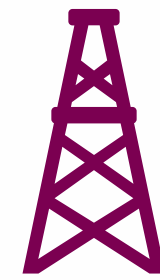
Common Infra

BUILDING BLOCKS FOR SOA



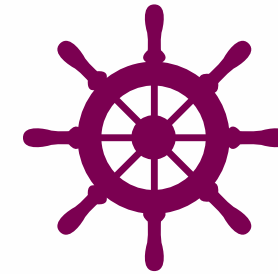
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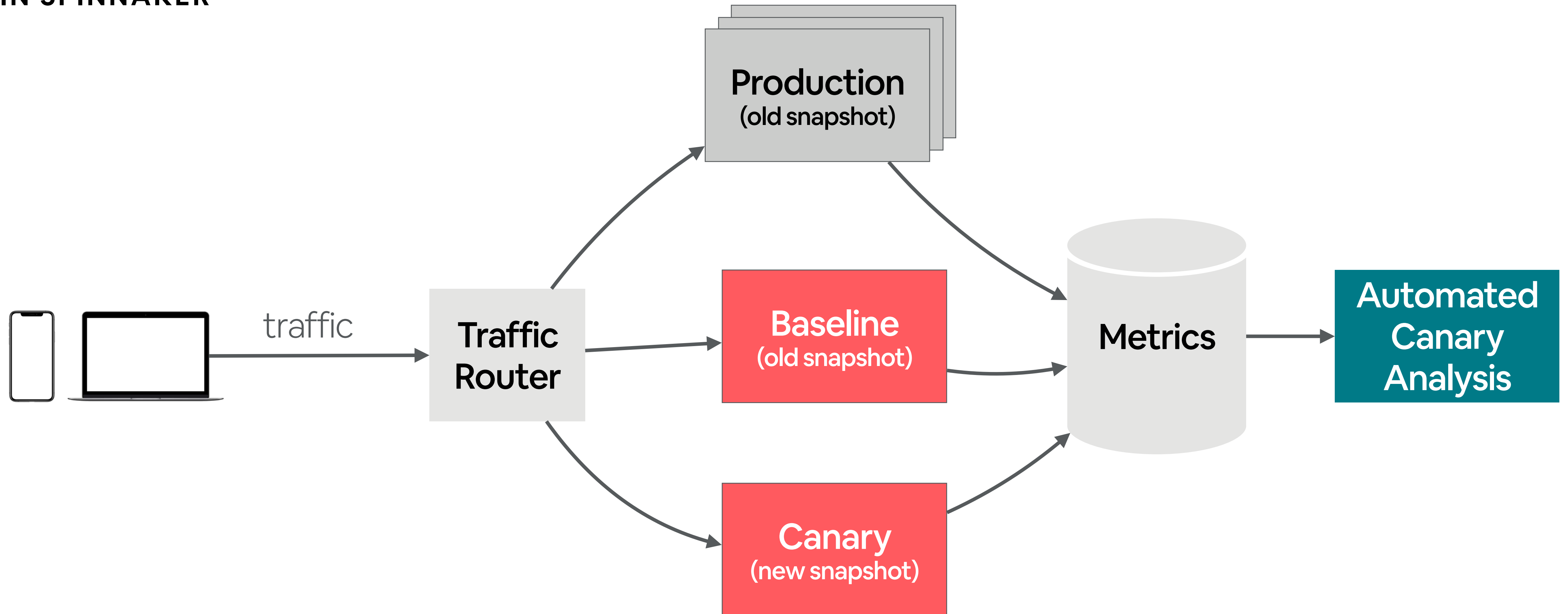


Spinnaker

Deploy services with automated error analysis

Automated Canary Analysis

IN SPINNAKER



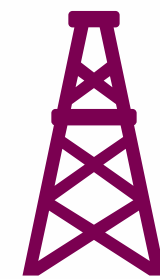
Common Infra

BUILDING BLOCKS FOR SOA



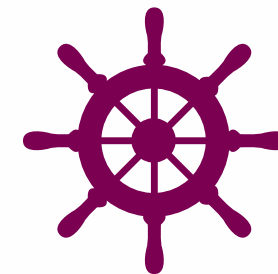
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Execute tasks in parallel



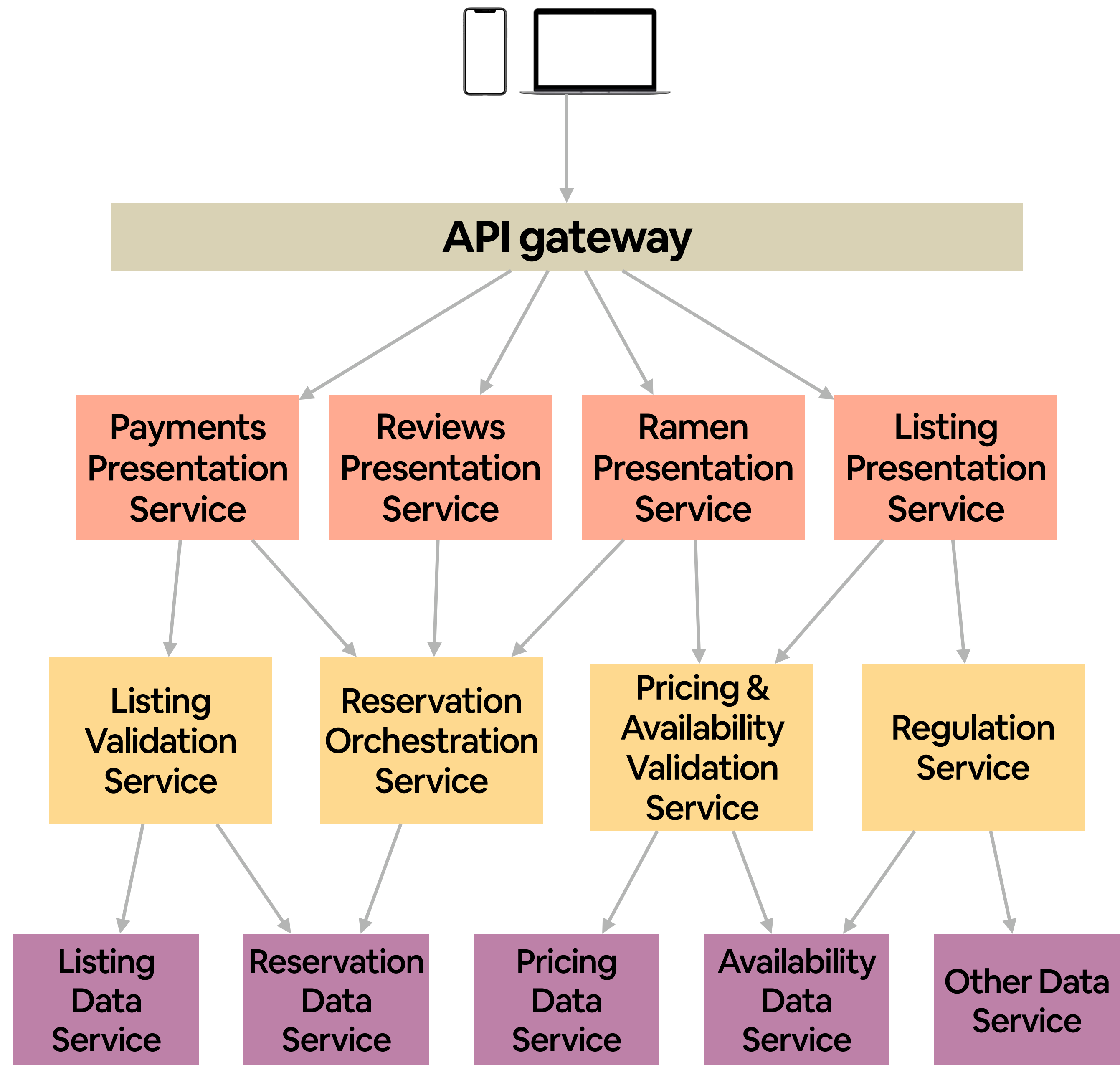
OneTouch

Configure and manage services



Spinnaker

Deploy services with automated error analysis

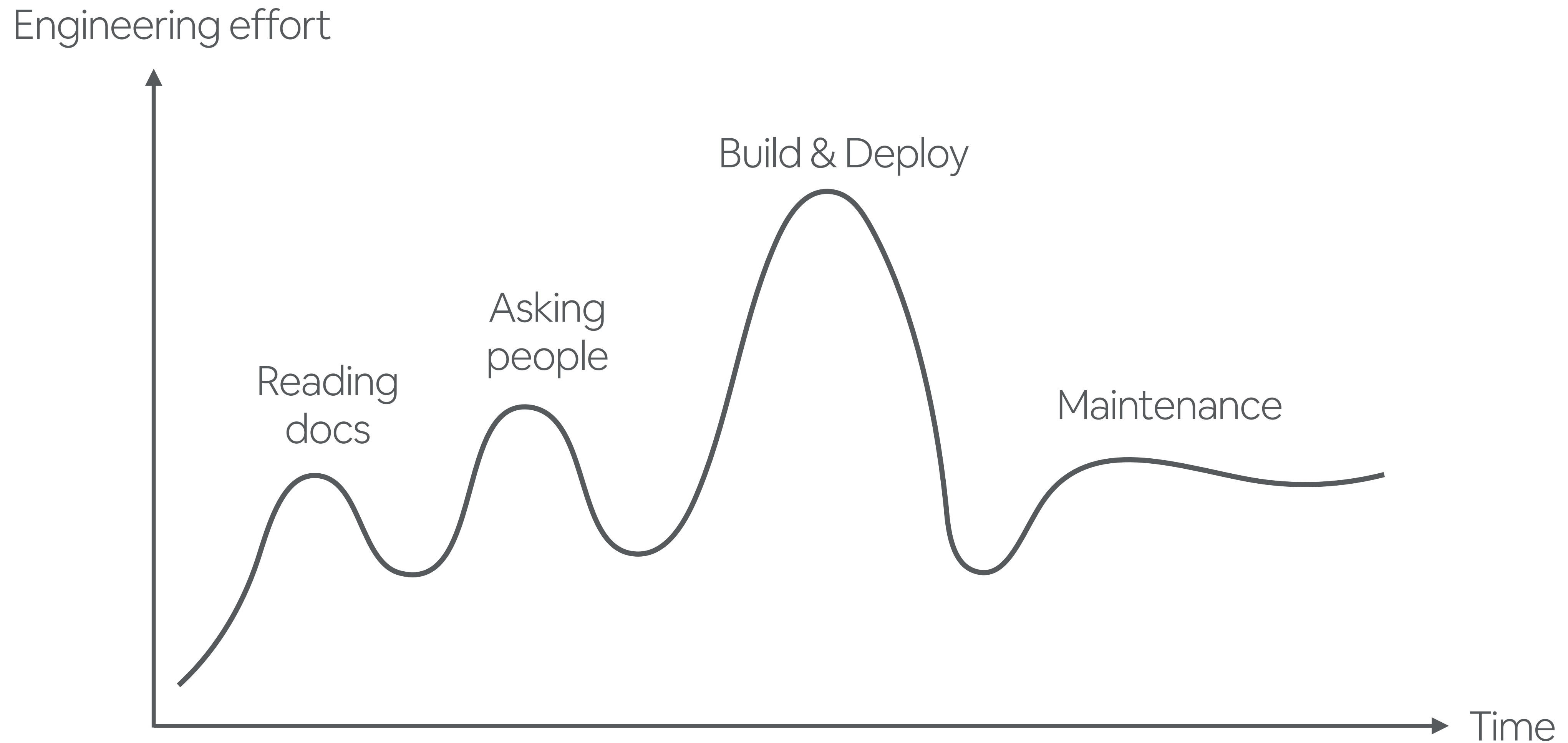




But we are not done.

What does the post-migration world look like?

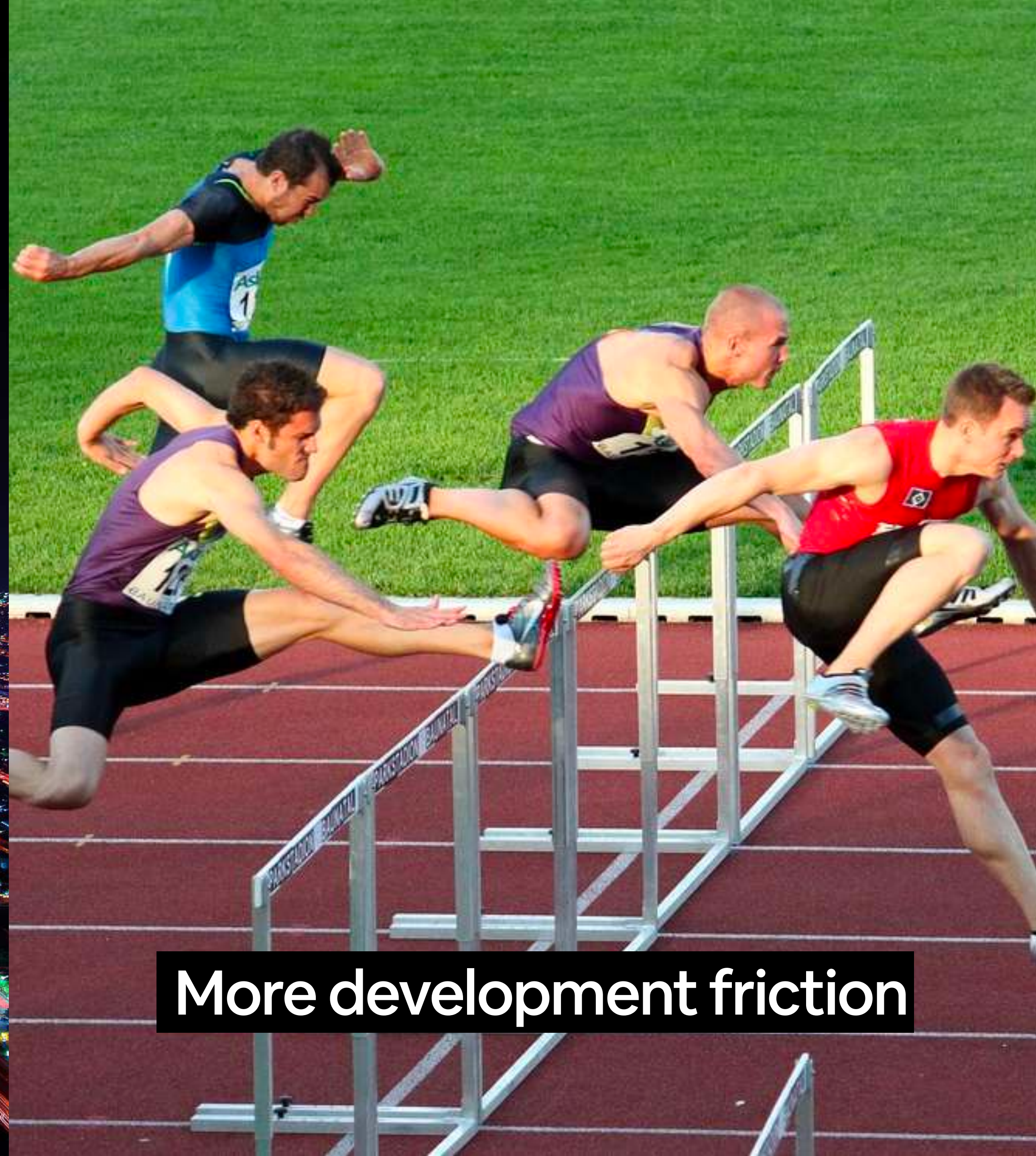
Adding new product feature



Reliable and highly available



Reliable and highly available



More development friction

Loosely coupled

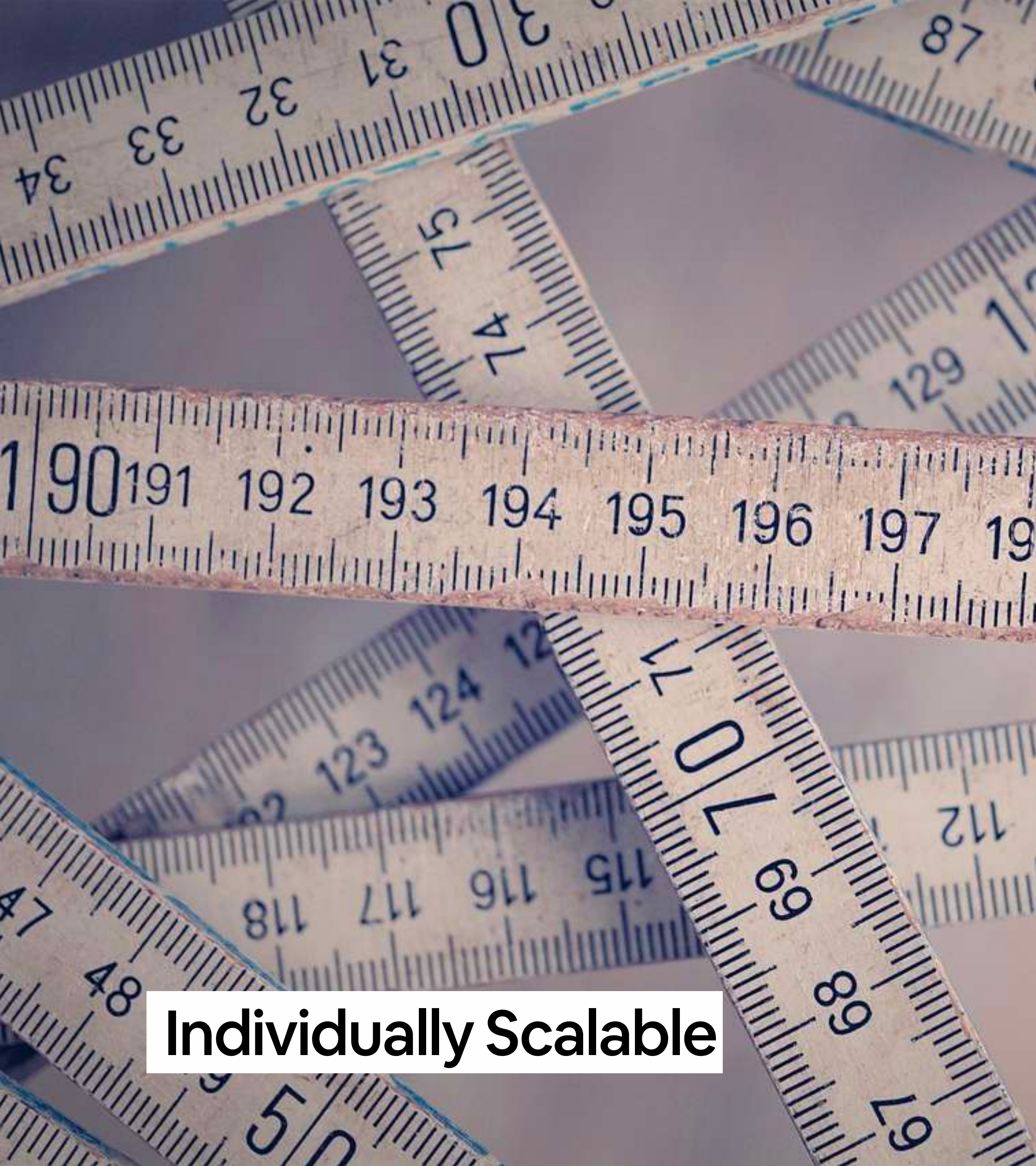


Loosely coupled

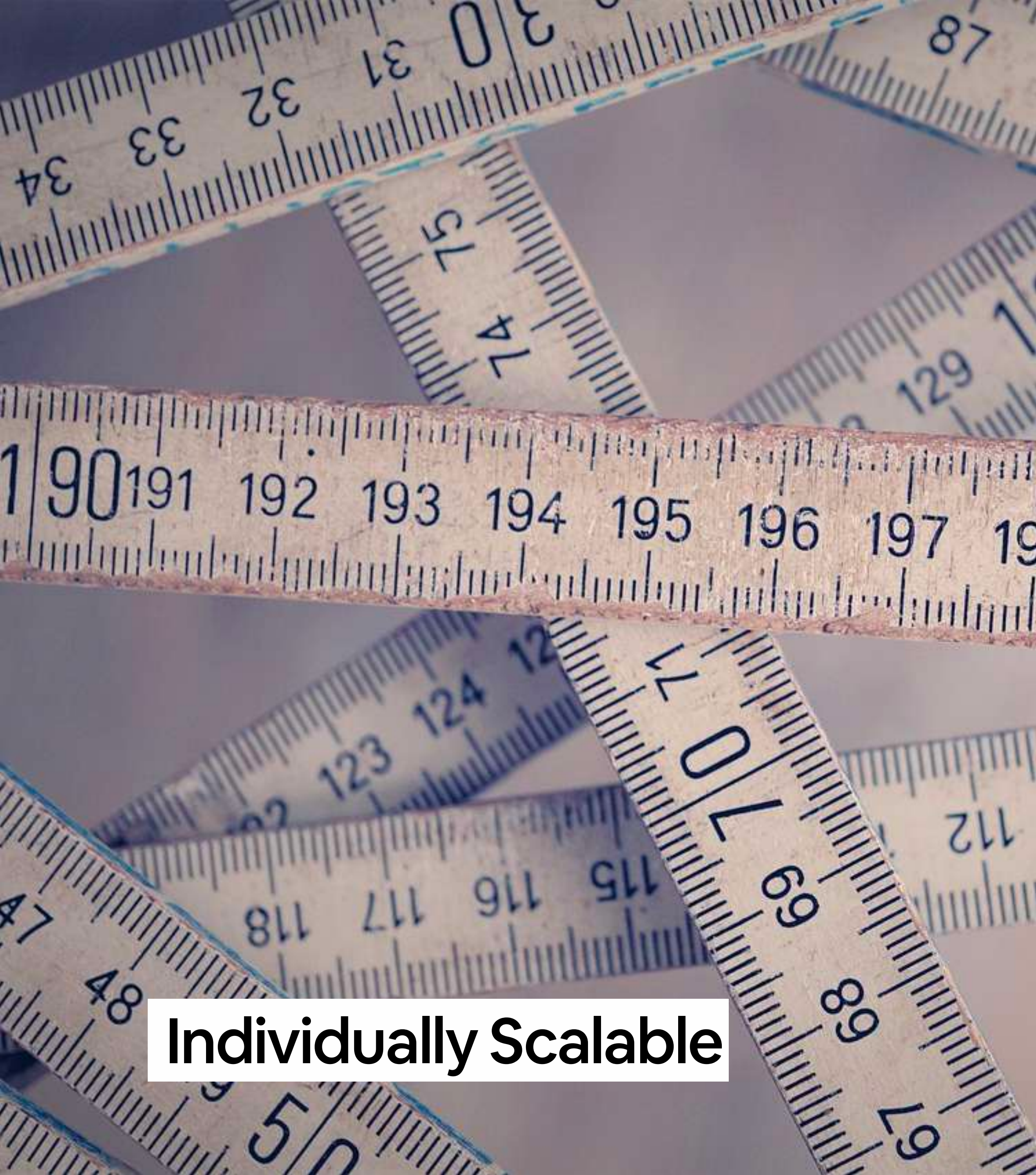


Repeated patterns





Individually Scalable



Individually Scalable



Fragmentation



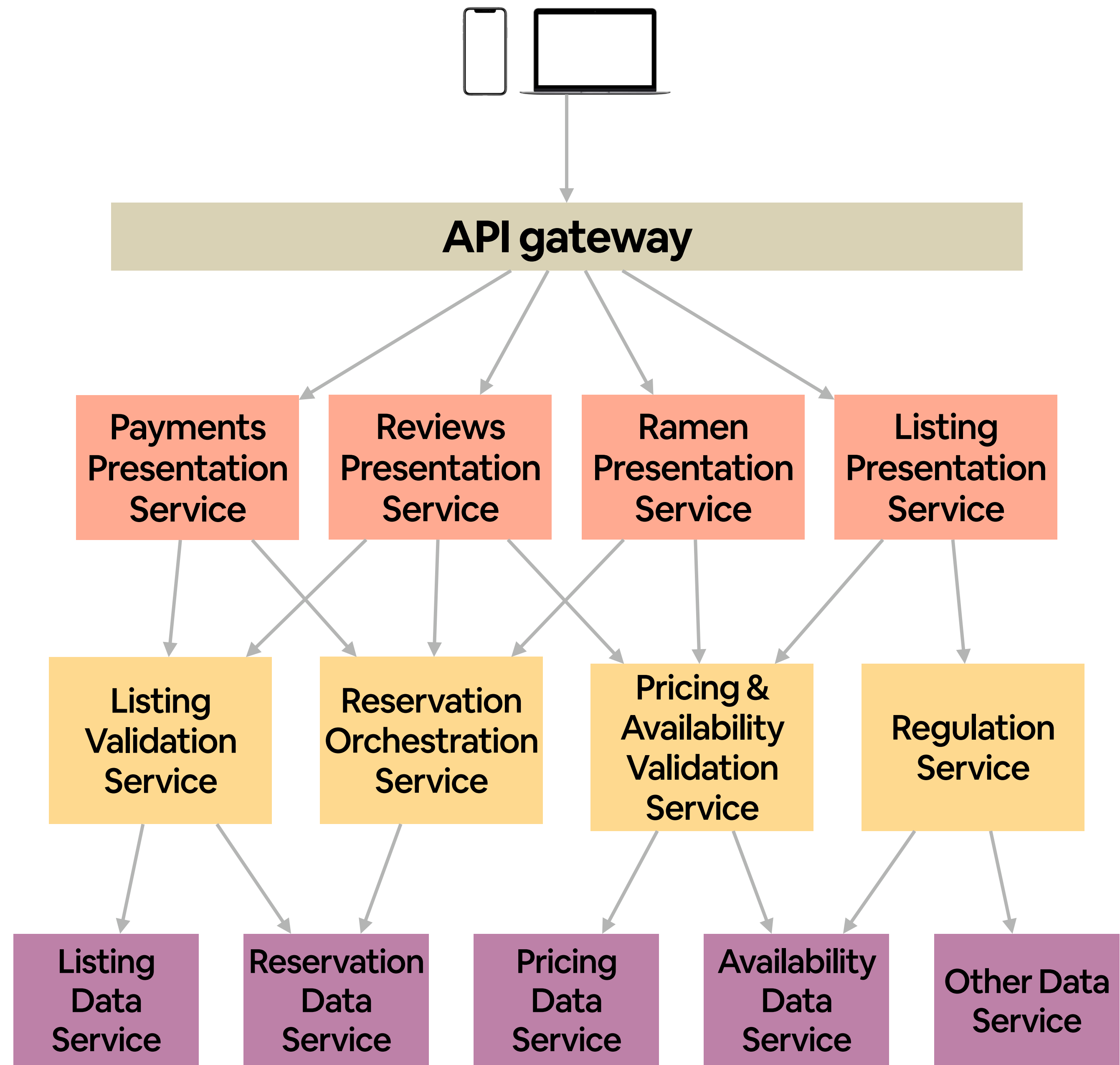
Business agility

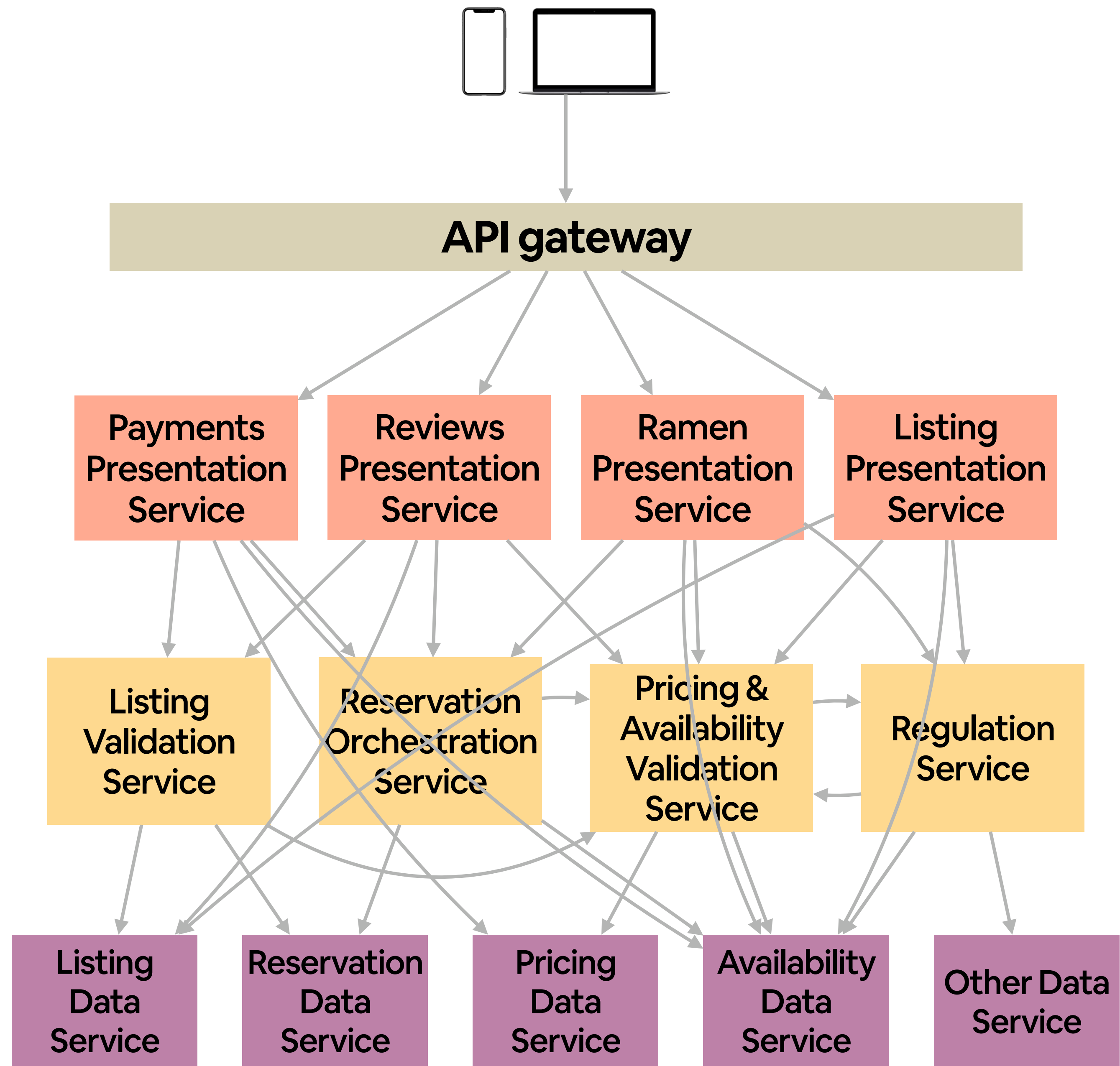


Business agility



**Complicated
dependency graph**





Flip sides of the same SOA coin

Reliable and highly available

Loosely coupled

Individually Scalable

Business agility

More development friction

Repeated patterns

Fragmentation

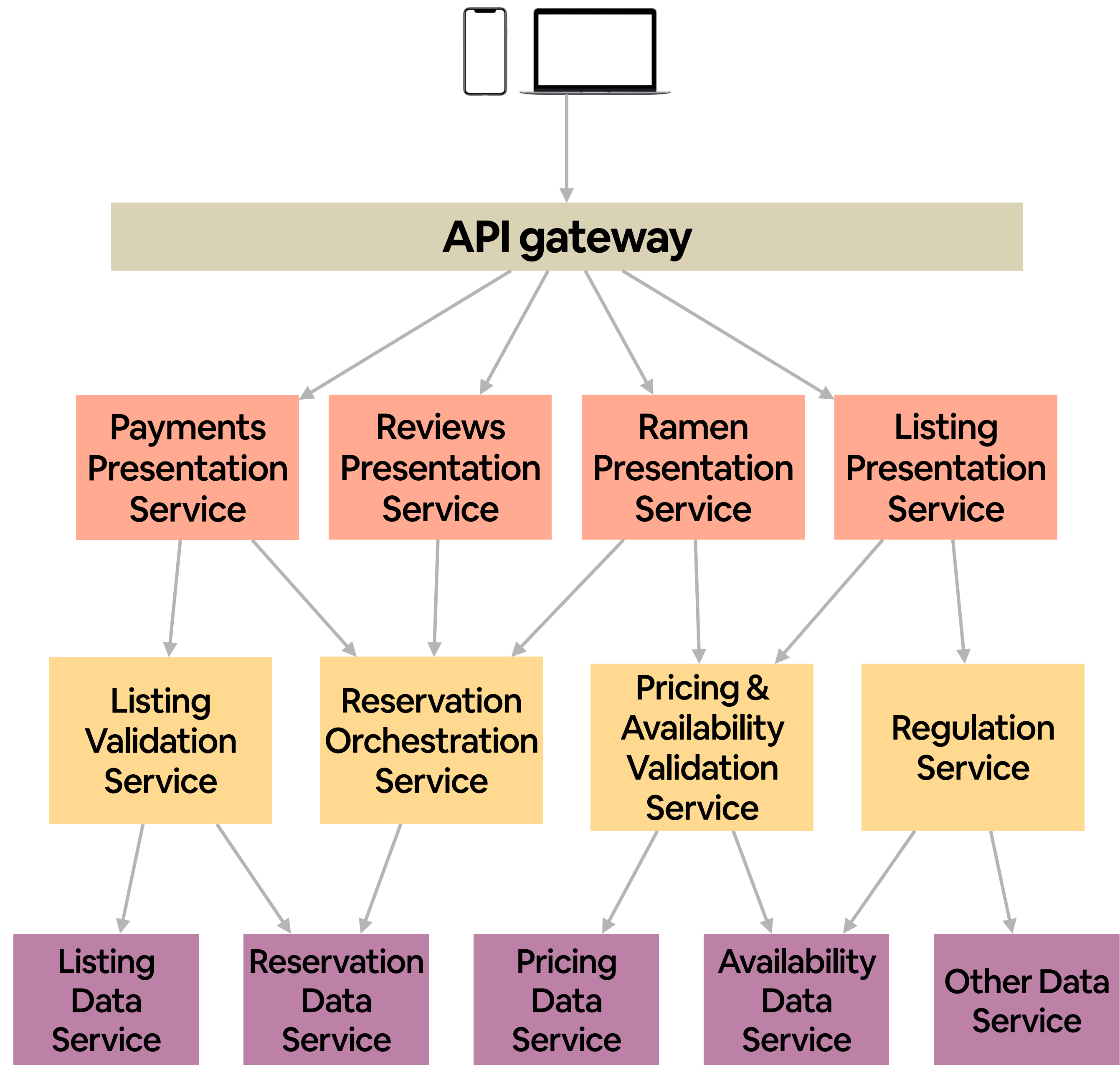
Complicated dependency graph

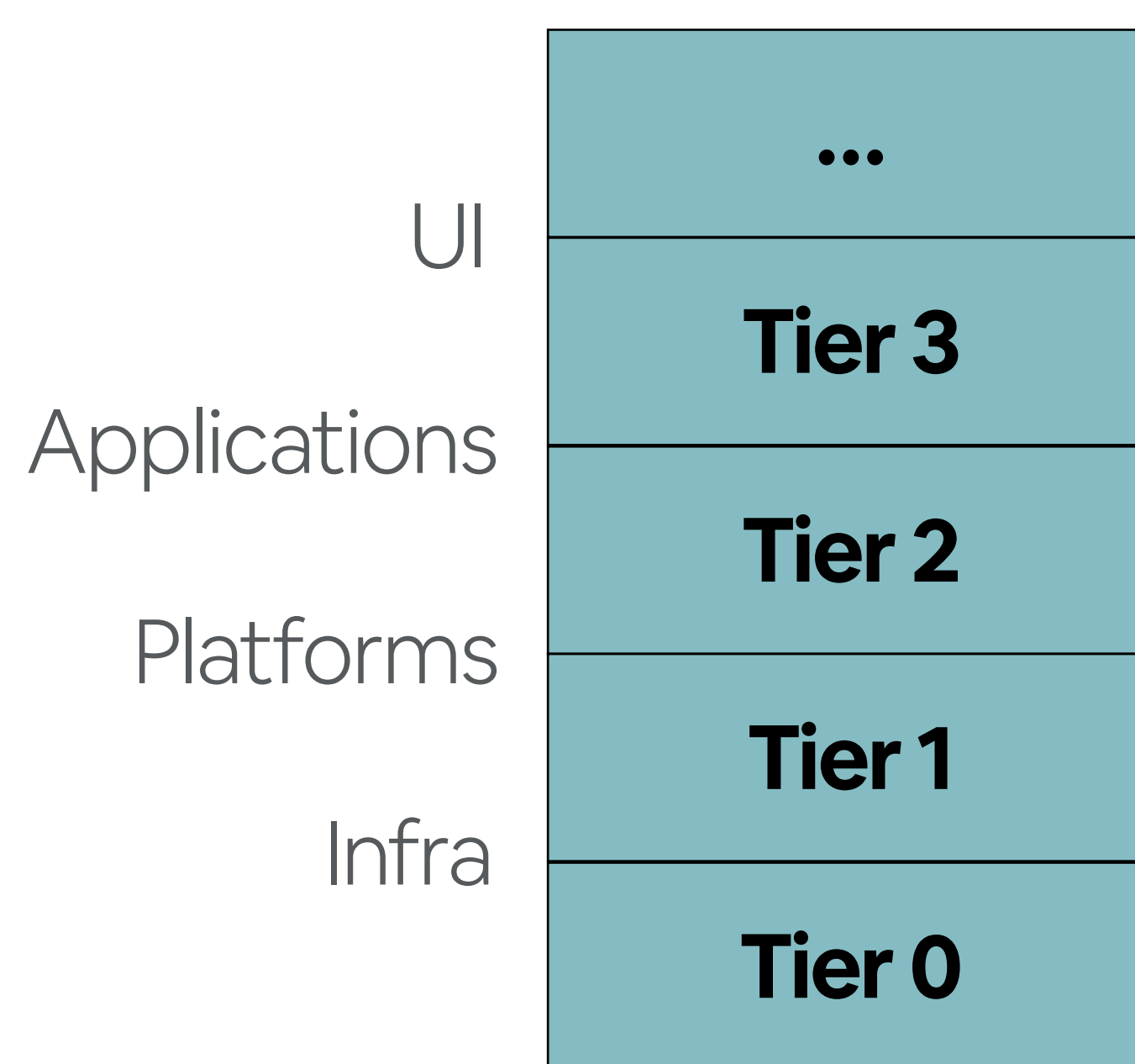
Invest in common infra early

Simplify service dependencies

Platformize data hydration

Unify client-facing API





Small

Specific

Volatile

Flexible

Fast



Large

General

Reliable

Stable

Slow

**Blast
radius**

API

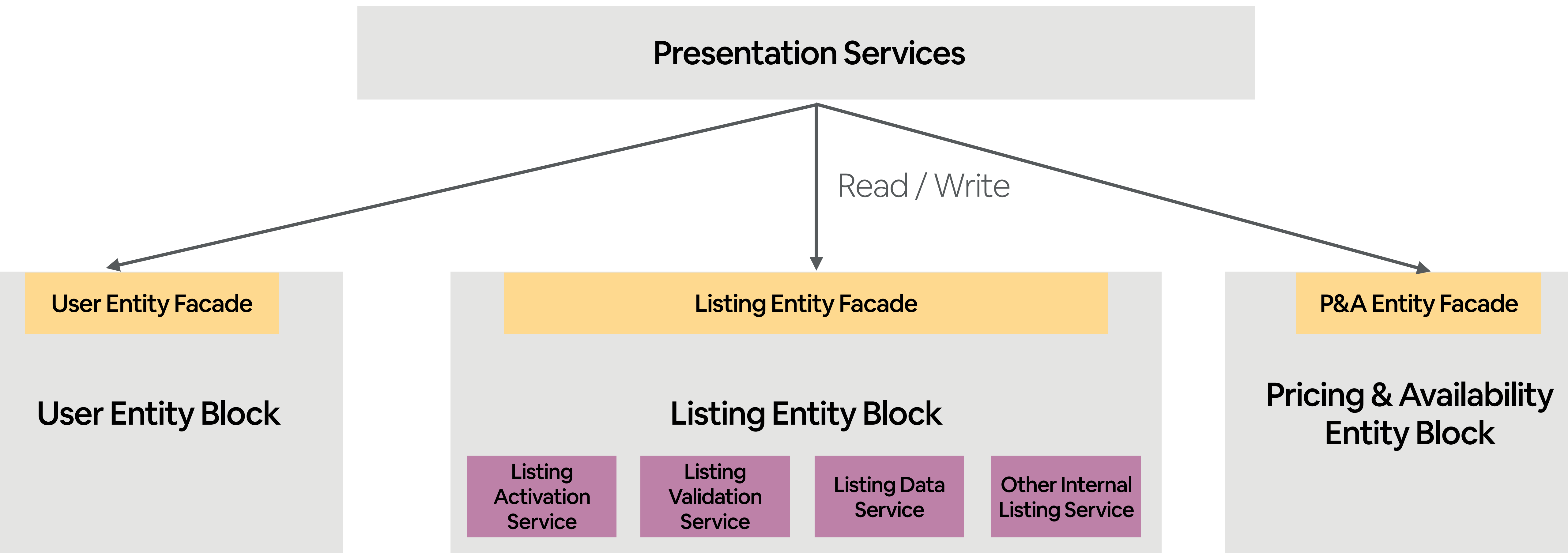
Reliability

Schema

**Iteration
speed**

Service Blocks

AT THE PLATFORM LAYER

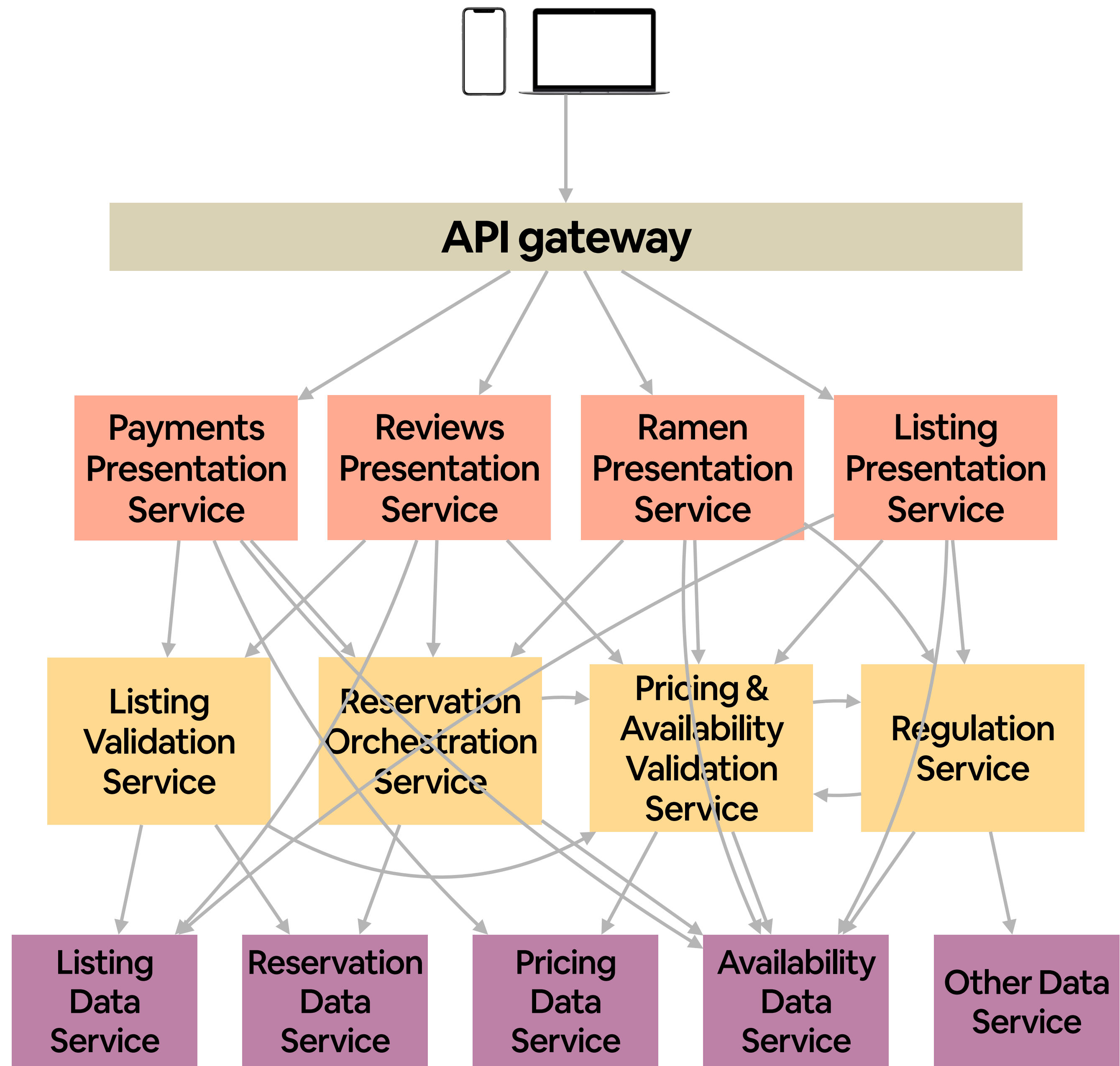


Invest in common infra early

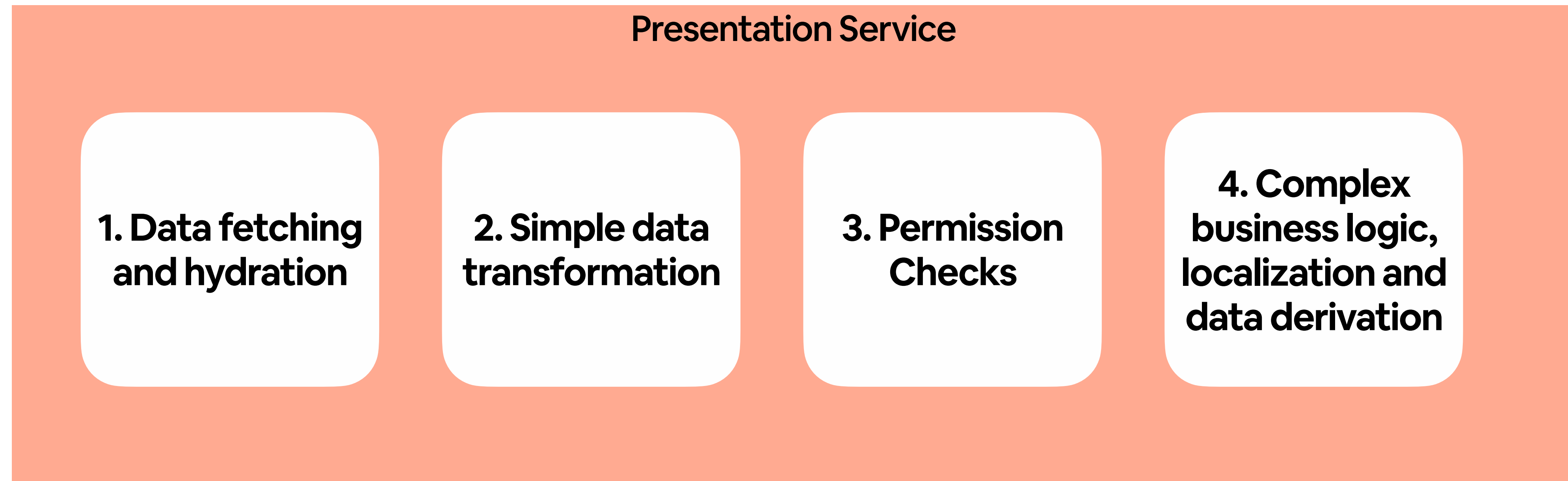
Simplify service dependencies

Platformize data hydration

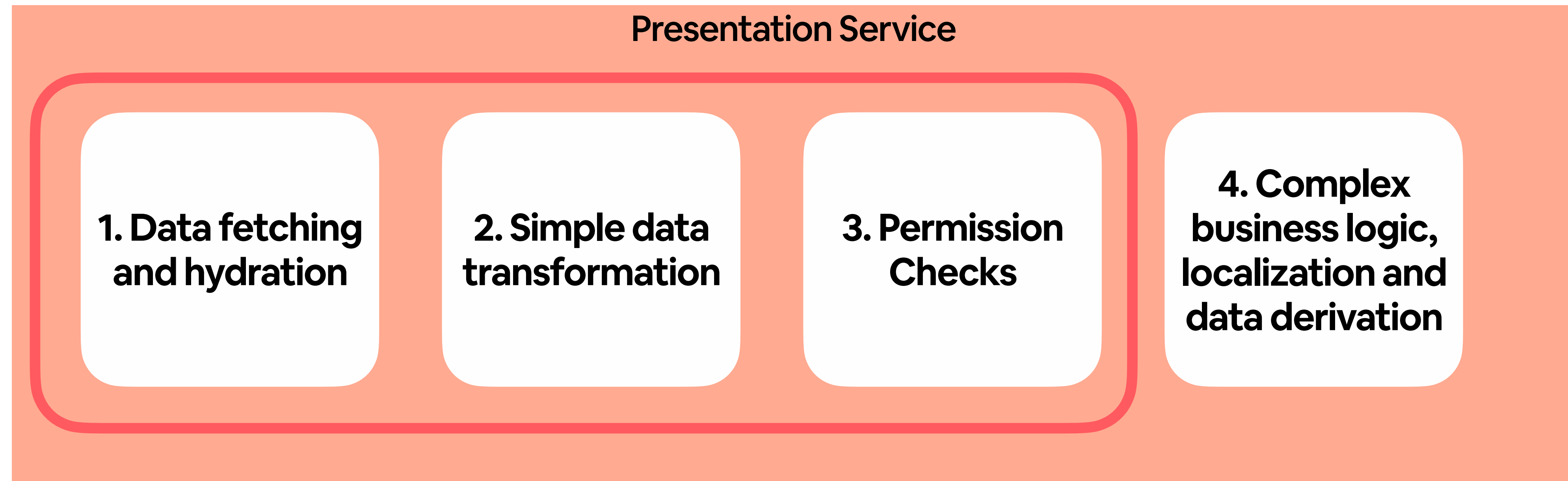
Unify client-facing API

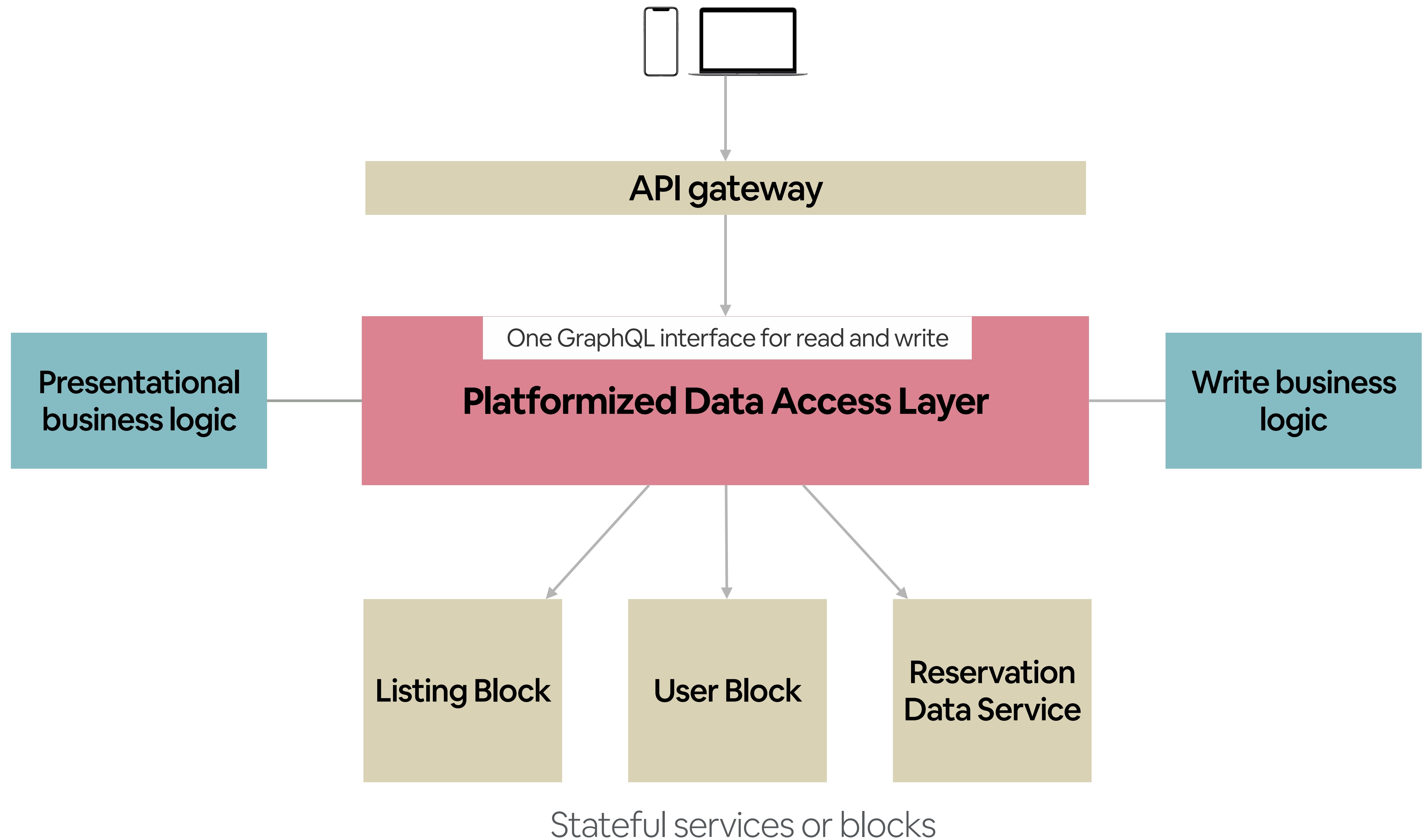


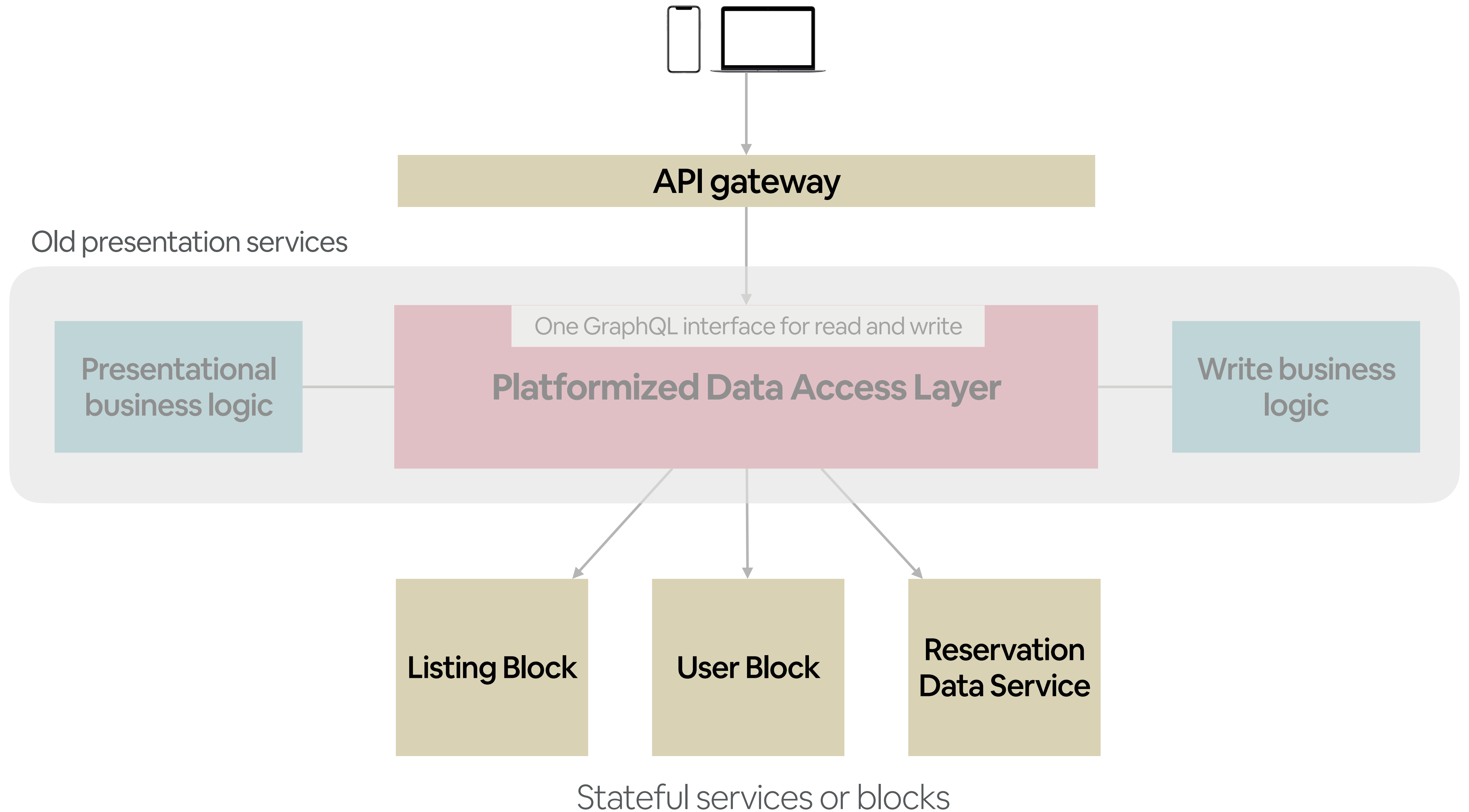
Zooming into each presentation service...



Zooming into each presentation service...









API gateway

Old presentation services

**Presentational
business logic**

One GraphQL interface for read and write

Platformized Data Access Layer

**Write business
logic**

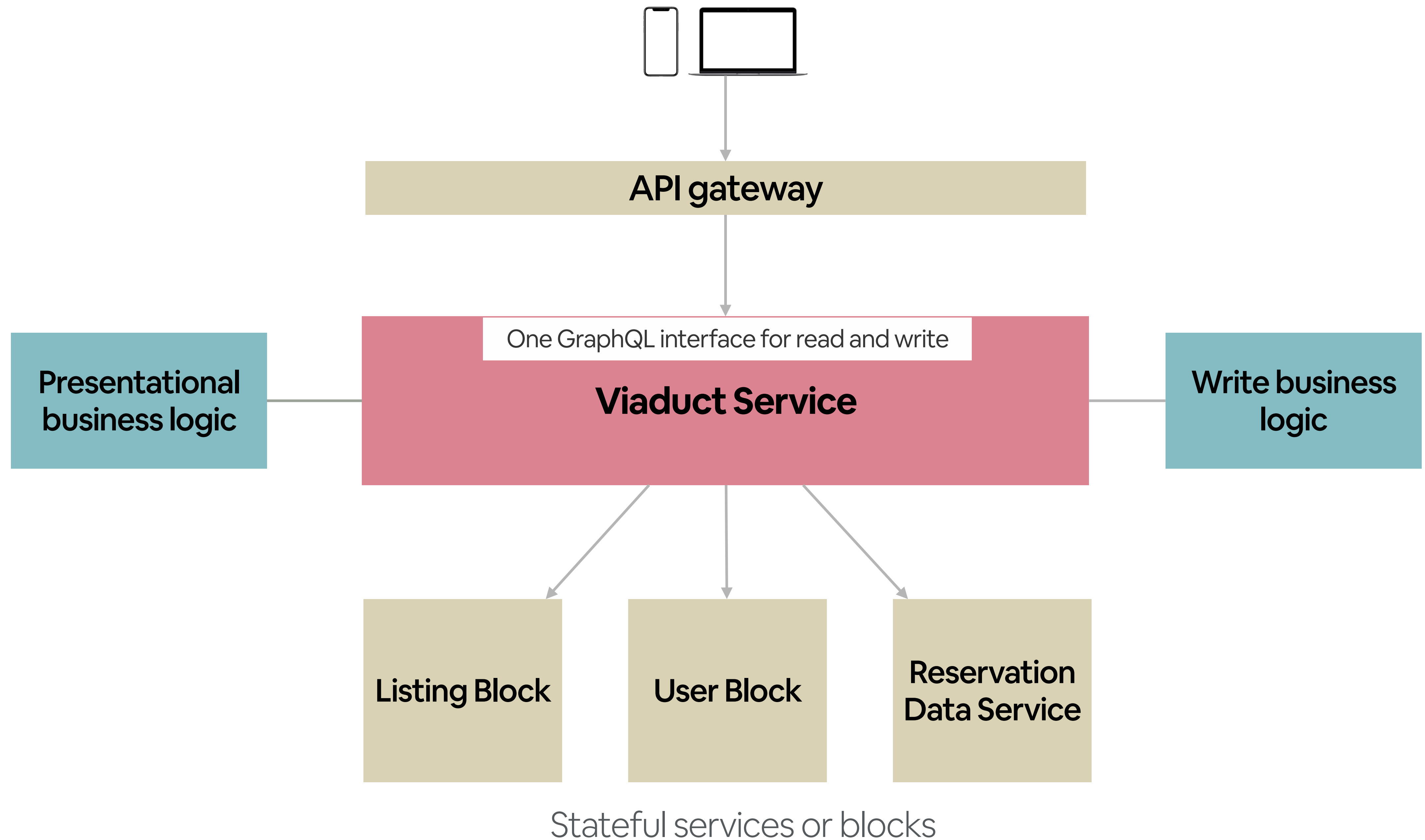
Old data and
mid-tier services

Listing Block

User Block

**Reservation
Data Service**

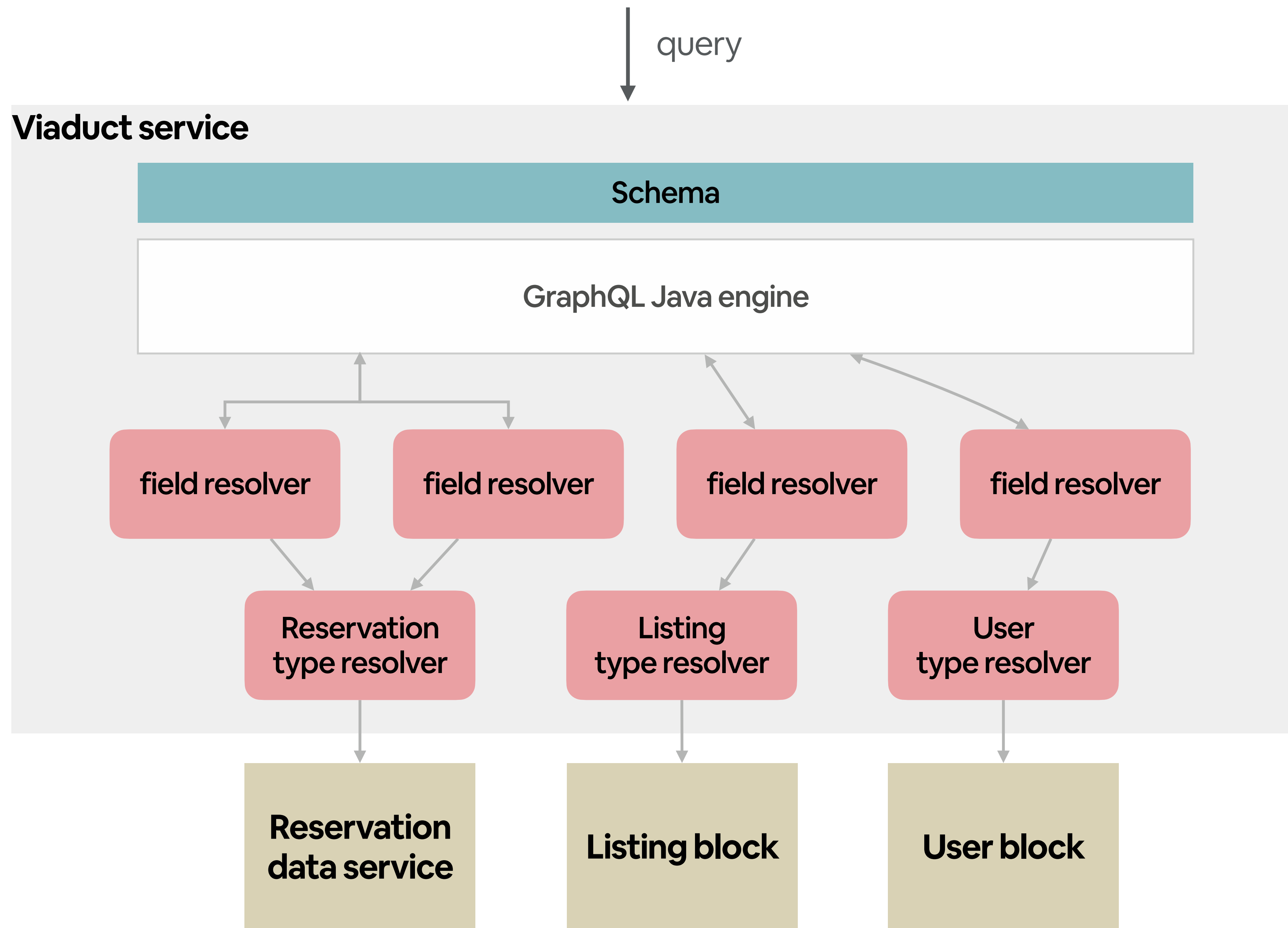
Stateful services or blocks



```
type Query {  
  reservations(id: $reservationId) {  
    id  
    startDate  
    endDate  
    guest {  
      ... on User {  
        firstName  
        lastName  
      }  
    }  
    listing {  
      ... on Listing {  
        name  
        pictureUrl  
      }  
    }  
    hostFacingStatus  
  }  
}
```

```
type Reservation
  @owners(list: "airbnb/homes-reservations")
  @privacy(entityType: "RESERVATION")
  @servicePoweredType(
    service: "ReservationDataService"
    methodName: "/v2/getReservationsByIds"
    defaultParams: "" { "consistency": "EVENTUAL" } ""
  ) {
    id: ID
    startDate: Date
    endDate: Date
    guestId: Long
    guest: User @servicePoweredTypeKey(path: "guestId")
    listingId: Long
    listing: Listing @servicePoweredTypeKey(path: "listingId")
    hostFacingStatus: String
      @derivedField(classPath: "HostFacingStatusProvider")
    ...
  }
```

```
type Reservation
  @owners(list: "airbnb/homes-reservations")
  @privacy(entityType: "RESERVATION")
  @servicePoweredType(
    service: "ReservationDataService"
    methodName: "/v2/getReservationsByIds"
    defaultParams: "" { "consistency": "EVENTUAL" } ""
  ) {
    id: ID
    startDate: Date
    endDate: Date
    guestId: Long
    guest: User @servicePoweredTypeKey(path: "guestId")
    listingId: Long
    listing: Listing @servicePoweredTypeKey(path: "listingId")
    hostFacingStatus: String
      @derivedField(classPath: "HostFacingStatusProvider")
    ...
  }
```



```
type Reservation
(
  @owners(list: "airbnb/homes-reservations")
  @privacy(entityType: "RESERVATION")
  @servicePoweredType(
    service: "ReservationDataService"
    methodName: "/v2/getReservationsByIds"
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    listingId: Long
    listing: Listing @servicePoweredTypeKey(path: "listingId")
    hostFacingStatus: String
      @derivedField(classPath: "HostFacingStatusProvider")
    ...
  }
}
```

```
type Reservation
  @owners(list: "airbnb/homes-reservations")
  @privacy(entityType: "RESERVATION")
  @servicePoweredType(
    service: "ReservationDataService"
    methodName: "/v2/getReservationsByIds"
    defaultParams: "" { "consistency": "EVENTUAL" } ""
  ) {
    id: ID
    startDate: Date
    endDate: Date
    guestId: Long
    guest: User @servicePoweredTypeKey(path: "guestId")
    listingId: Long
    listing: Listing @servicePoweredTypeKey(path: "listingId")
    hostFacingStatus: String
    @derivedField(classPath: "HostFacingStatusProvider")
    ...
  }
```

```

type Reservation
  @owners(list: "airbnb/homes-reservations")
  @privacy(entityType: "RESERVATION")
  @servicePoweredType(
    service: "ReservationDataService"
    methodName: "/v2/getReservationsByIds"
    defaultParams: "" { "consistency": "EVENTUAL" } ""
  ) {
    id: ID
    startDate: Date
    endDate: Date
    guestId: Long
    guest: User @servicePoweredTypeKey(path: "guestId")
    listingId: Long
    listing: Listing @servicePoweredTypeKey(path: "listingId")
    hostFacingStatus: String
      @derivedField(classPath: "HostFacingStatusProvider")
    ...
  }

```

"Pending payment"
"Checking out today"
"Review guest"
etc...



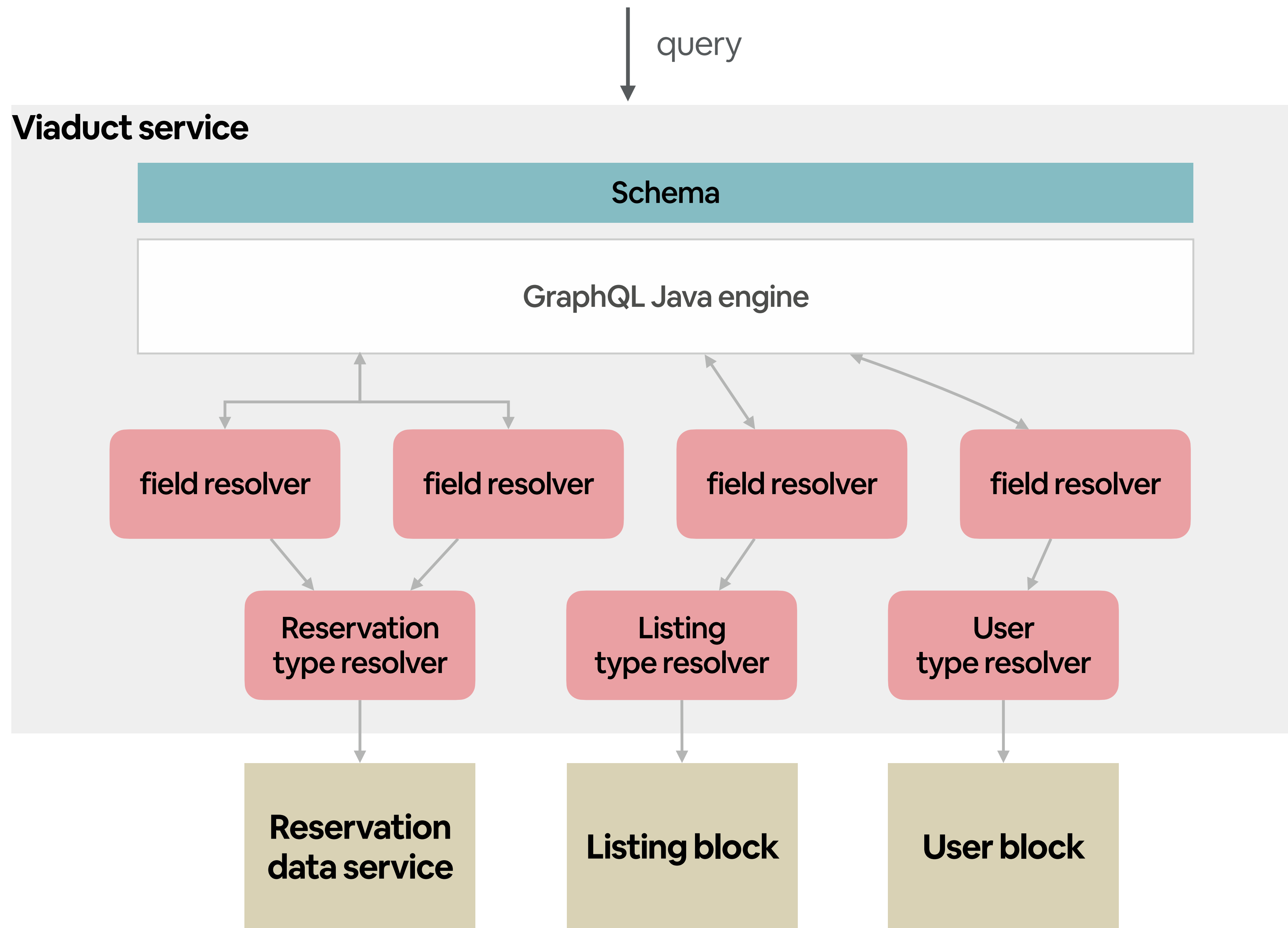
```

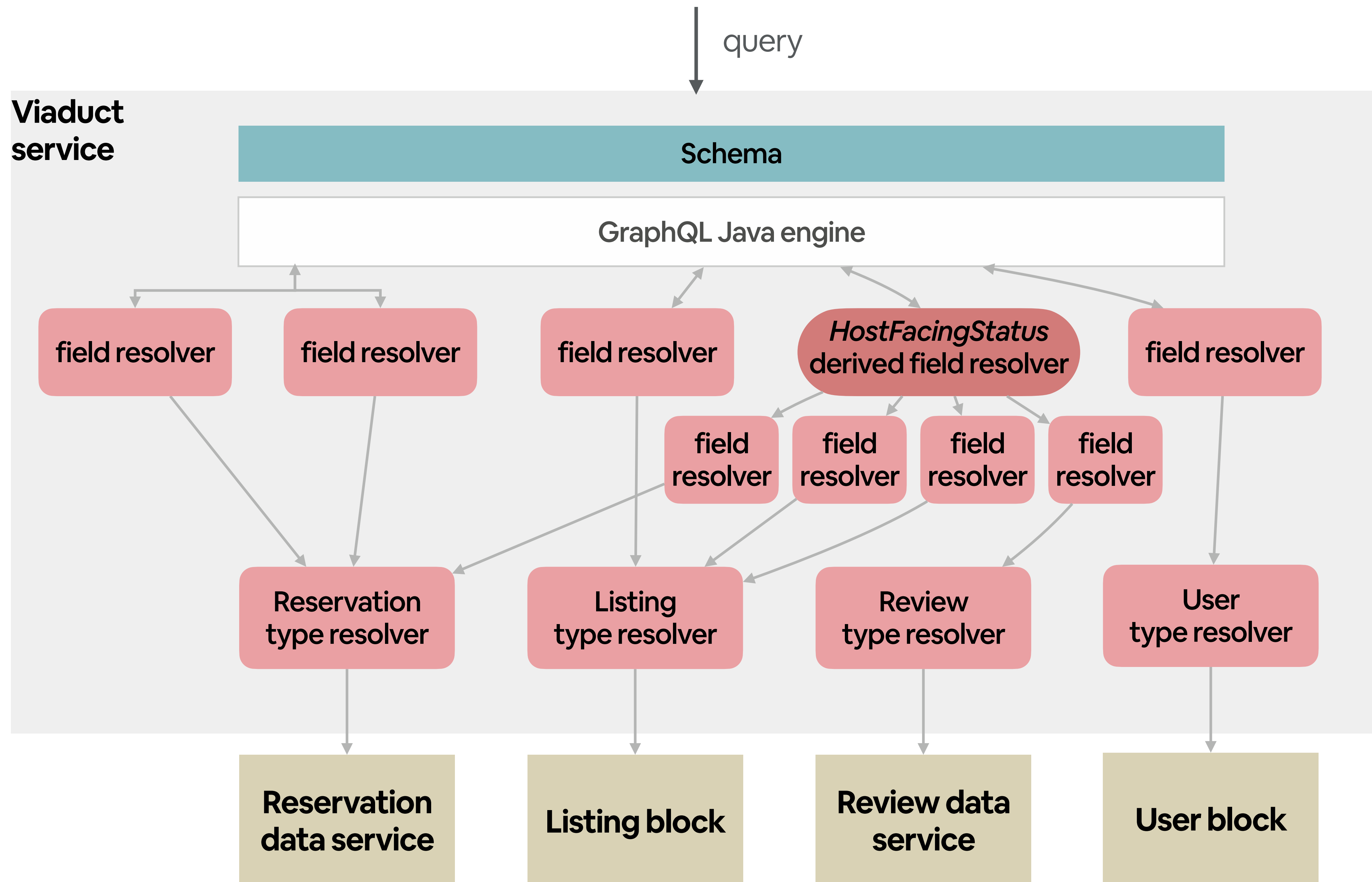
class HostFacingStatusProvider implements DerivedFieldProvider {

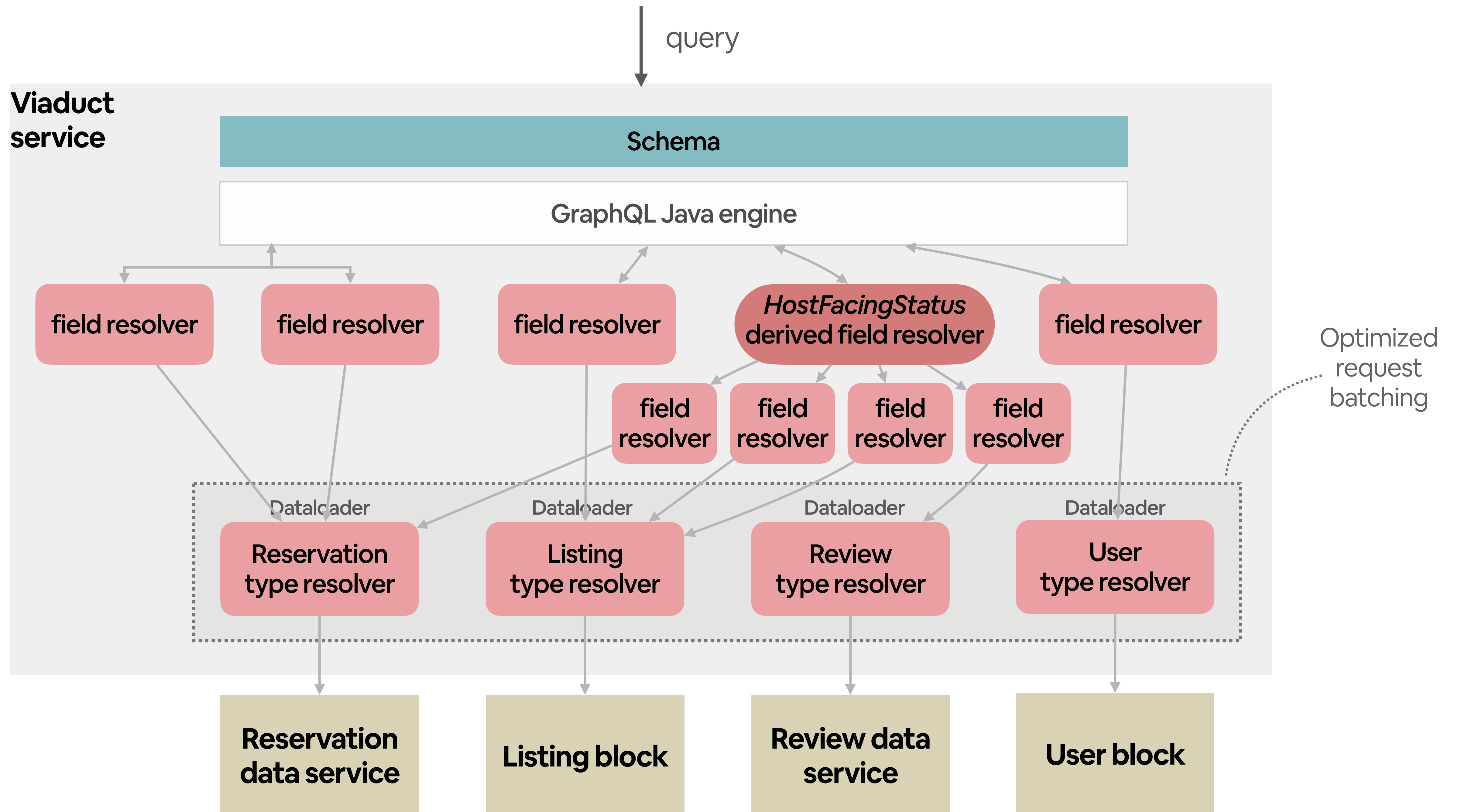
    override fun getFragment(): Fragment = fragment(
        """
        fragment HostFacingStatus on Reservation {
            endDate
            startDate
            listing {
                checkInTime
                checkOutTime
            }
            reviews {
                status
            }
            payment {
                status
            }
        }
        """
    )

    override fun resolve(fragmentData): String {
        if (fragmentData.endDate.isAfter(today())) {
            ...
        }
    }
}

```

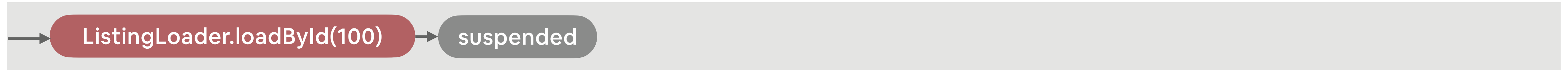




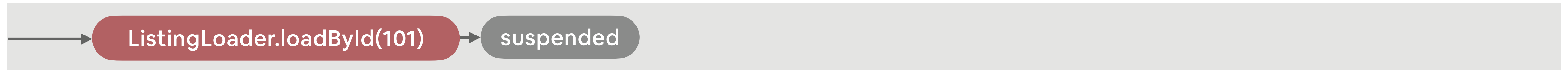


Optimized Batching

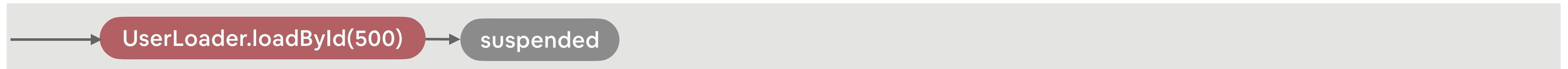
Coroutine from field resolver 1



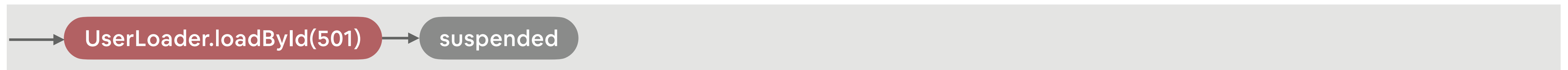
Coroutine from field resolver 2



Coroutine from field resolver 3

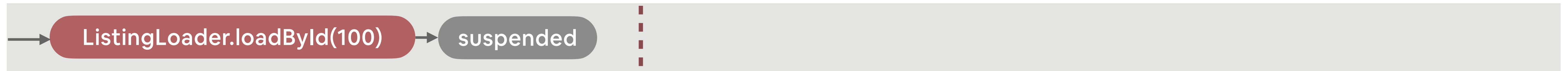


Coroutine from field resolver 4

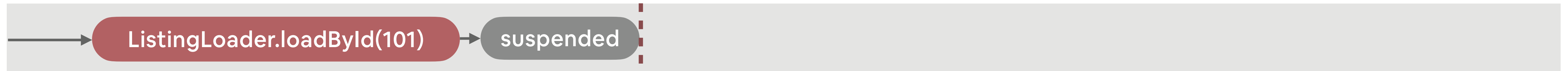


Optimized Batching

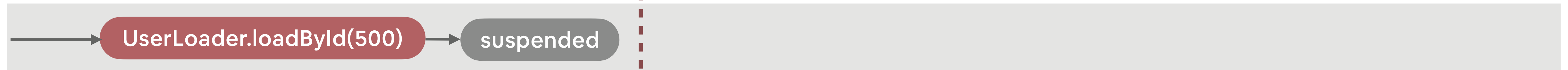
Coroutine from field resolver 1



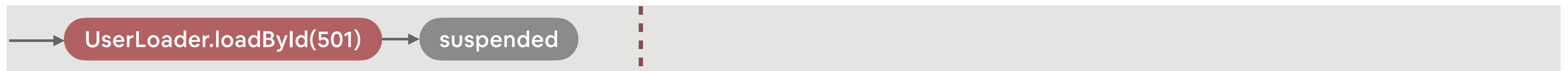
Coroutine from field resolver 2



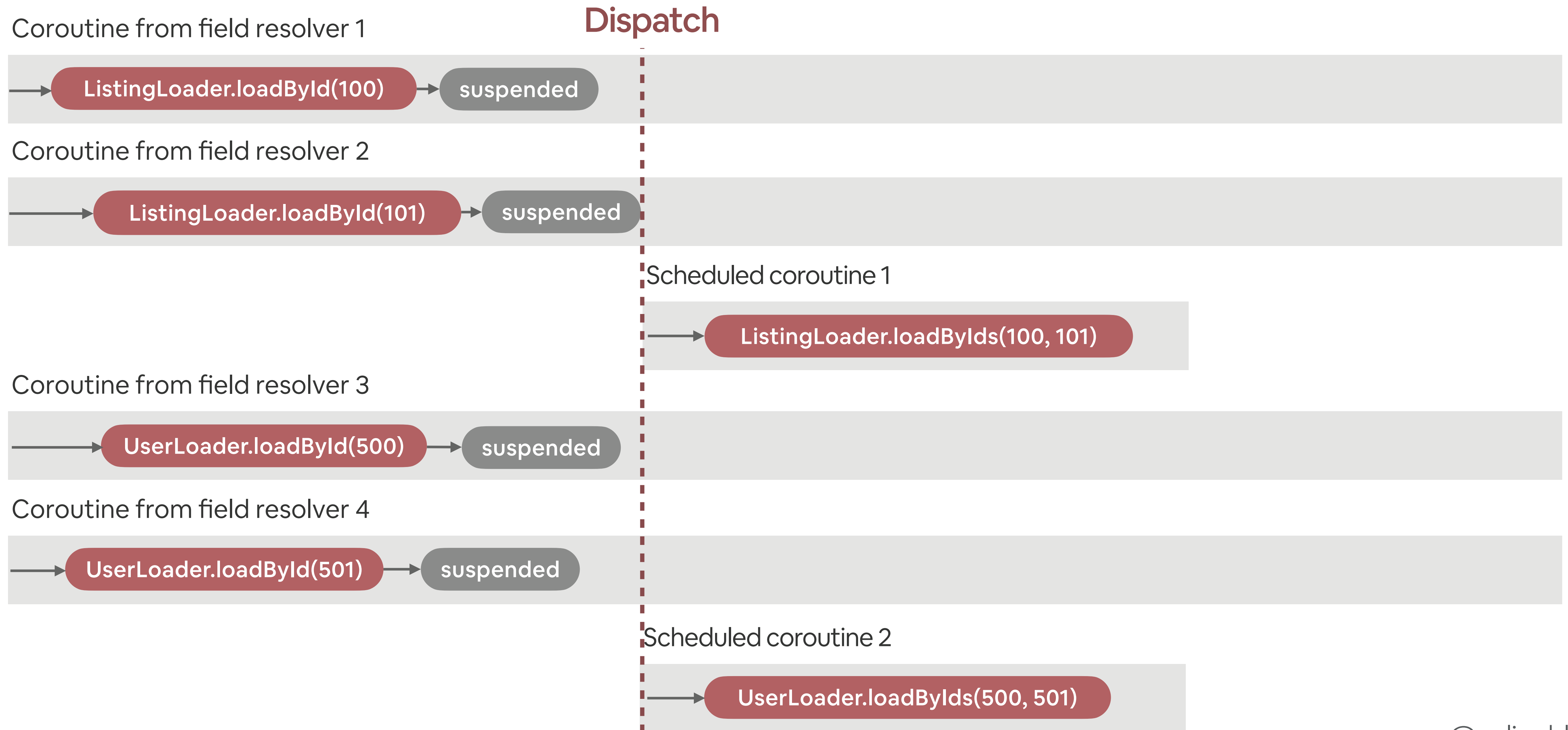
Coroutine from field resolver 3



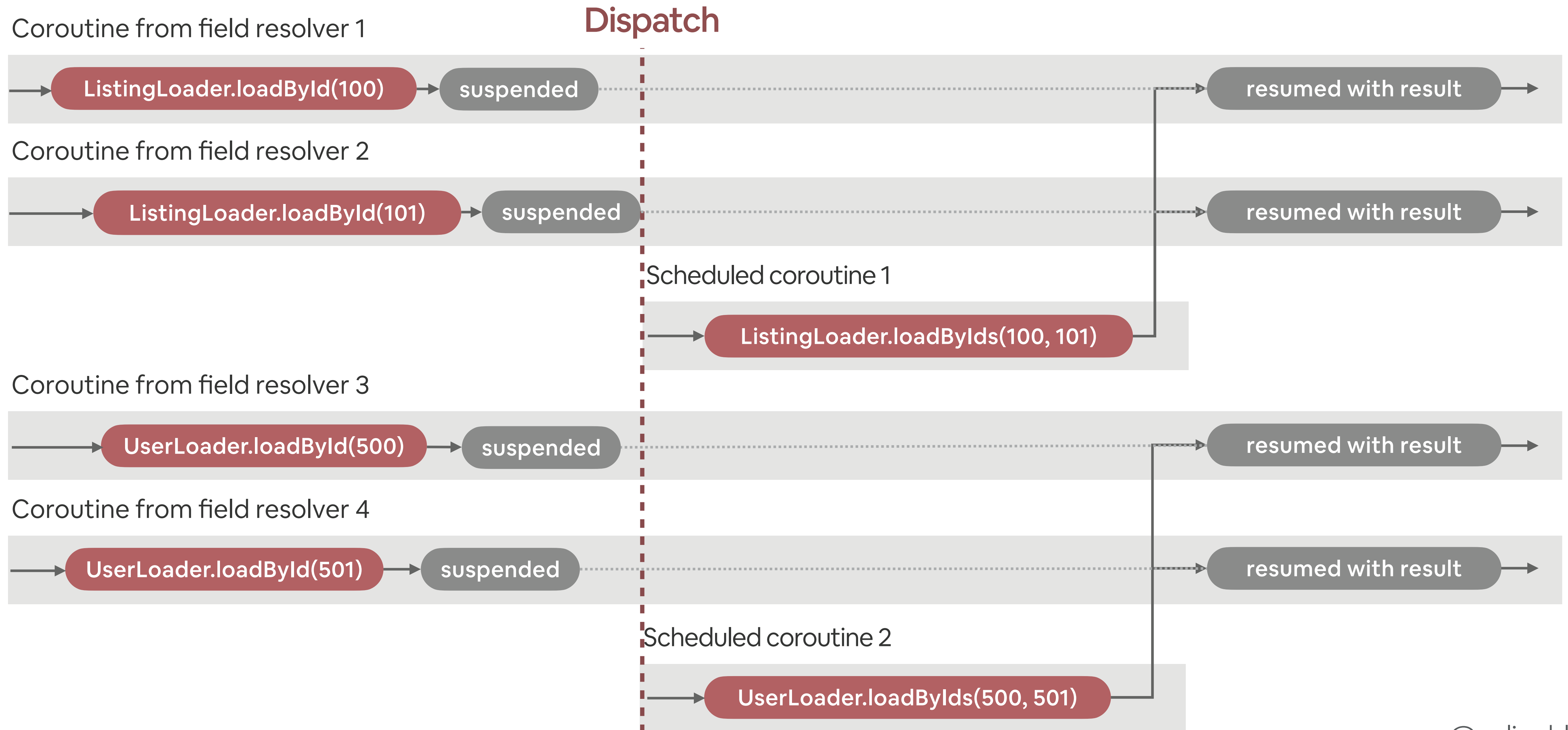
Coroutine from field resolver 4

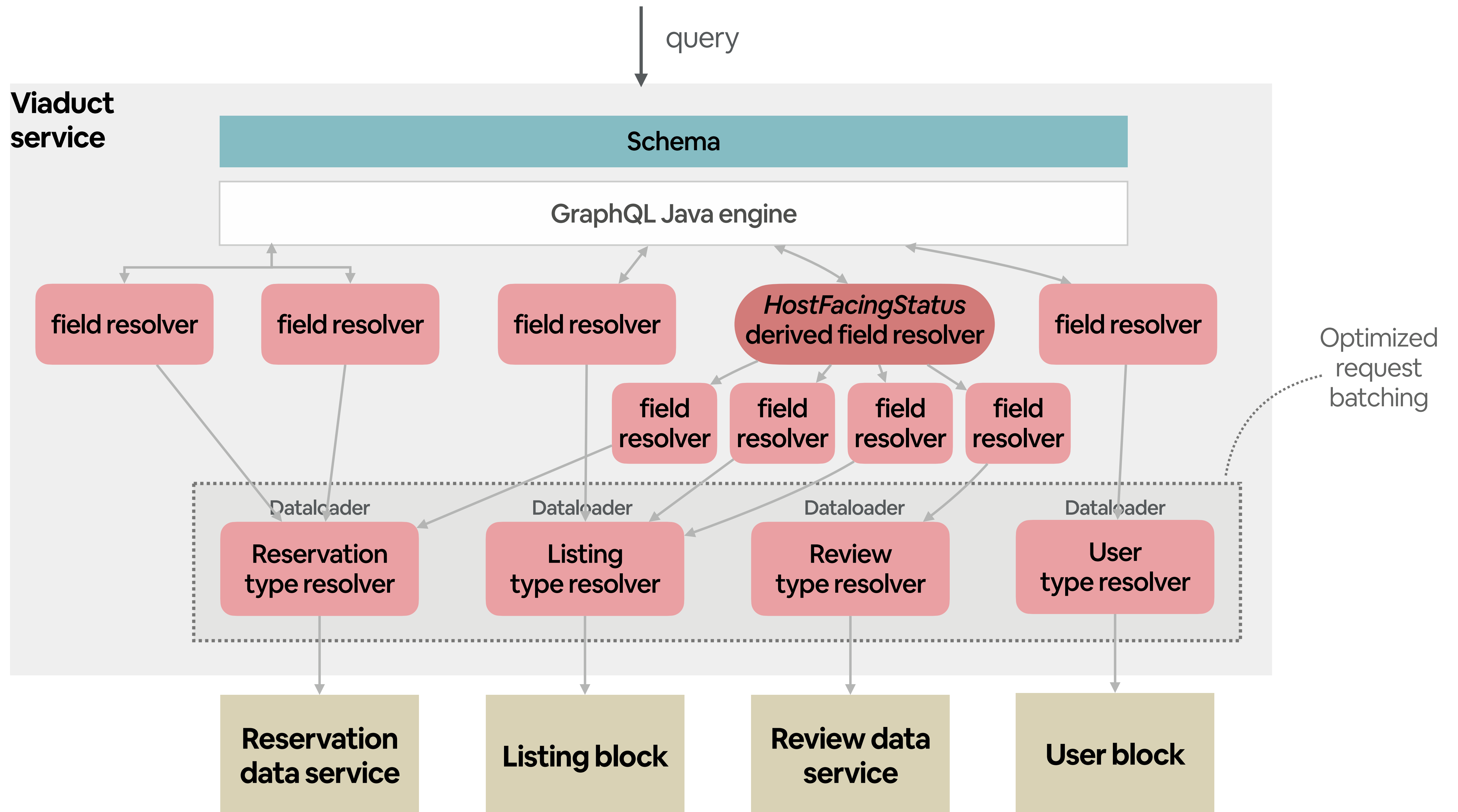


Optimized Batching

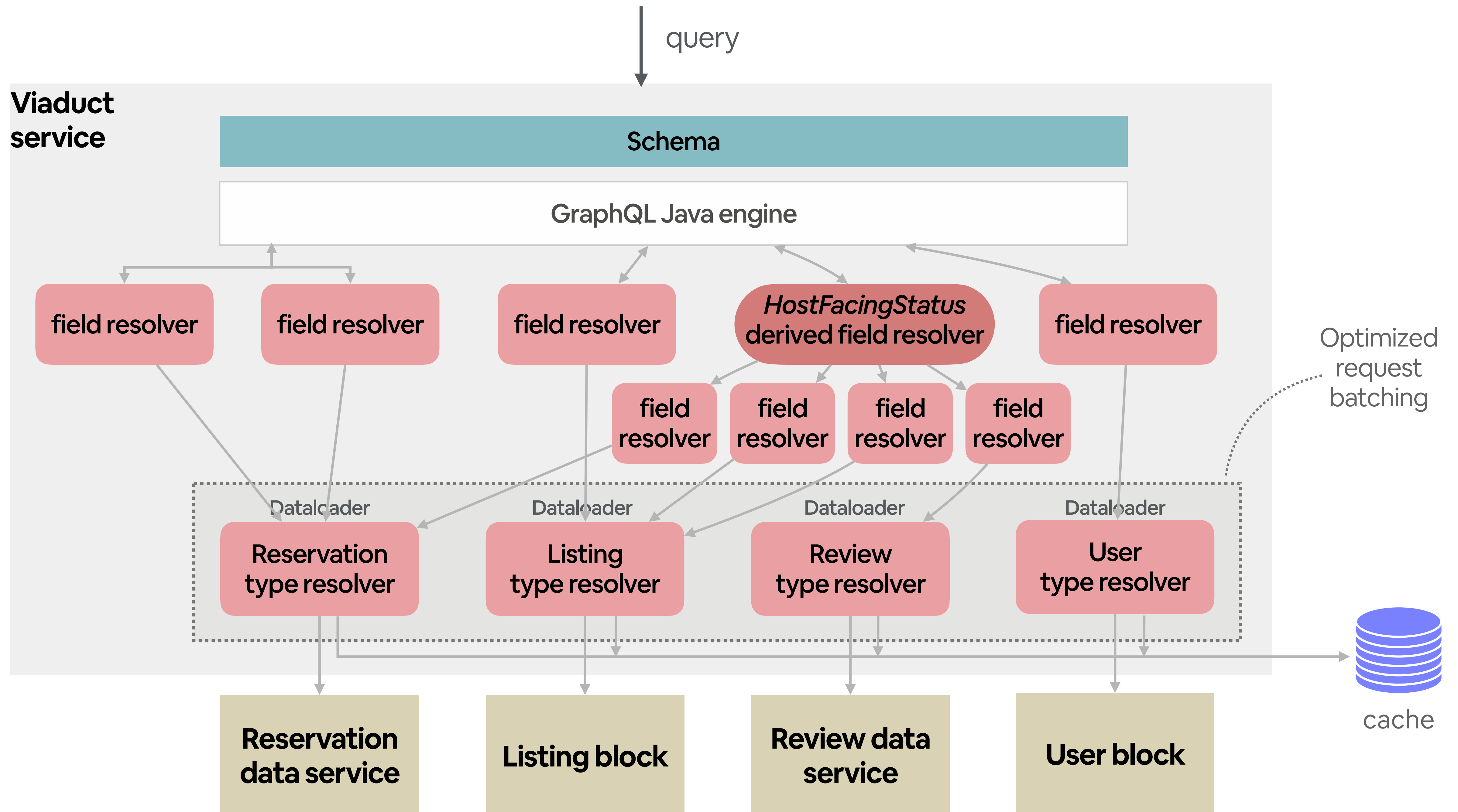


Optimized Batching





Viaduct service



Listing Details Page



Start your search

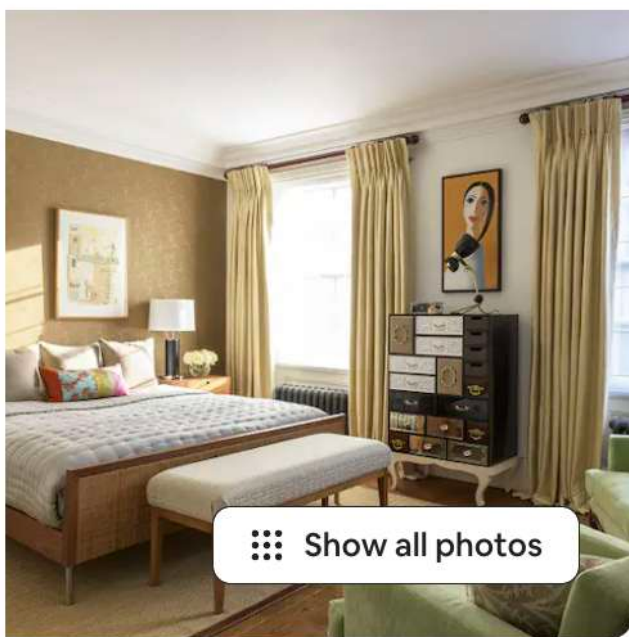
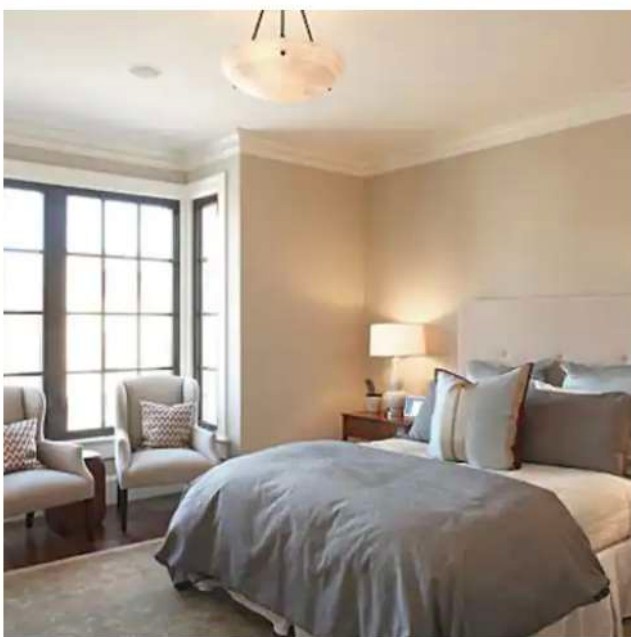
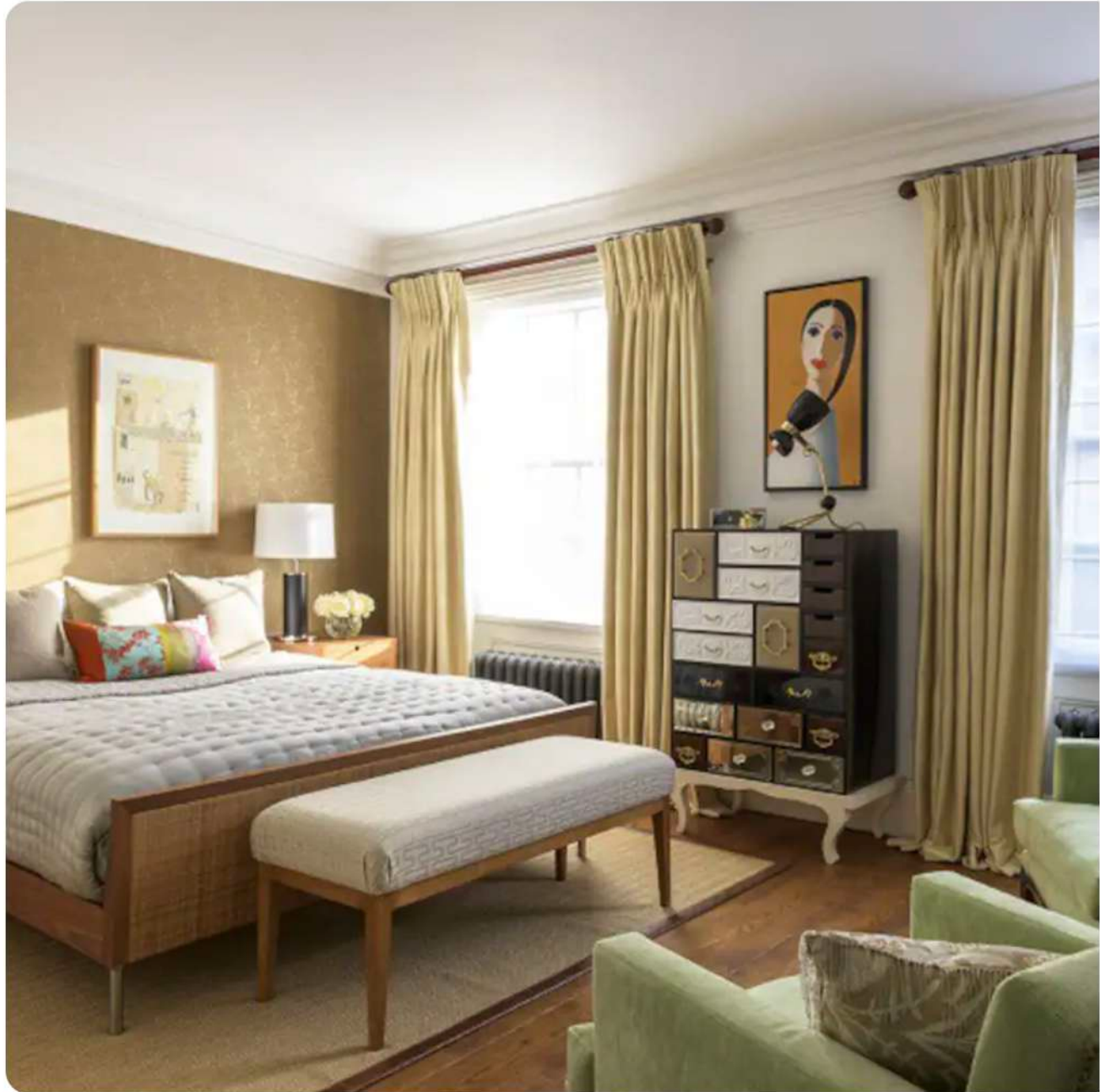
Switch to hosting



Airy two-bedroom apartment near downtown

Jordan Valley, Oregon, United States

 Share  Save



Show all photos

Private room in villa hosted by Jane

4 guests · 6 bedrooms · 4 beds · 6 baths



 Free cancellation before Apr 3.

Welcome to your home away from home. The home is a newly built architecture marvel located near the shore. The home has 4 levels allowing you to enjoy each part of the space. First Floor: When entering the home, the first floor is set up as a gym and as additional seating area. Second Floor: Walking up to the second story you will enjoy the

\$100

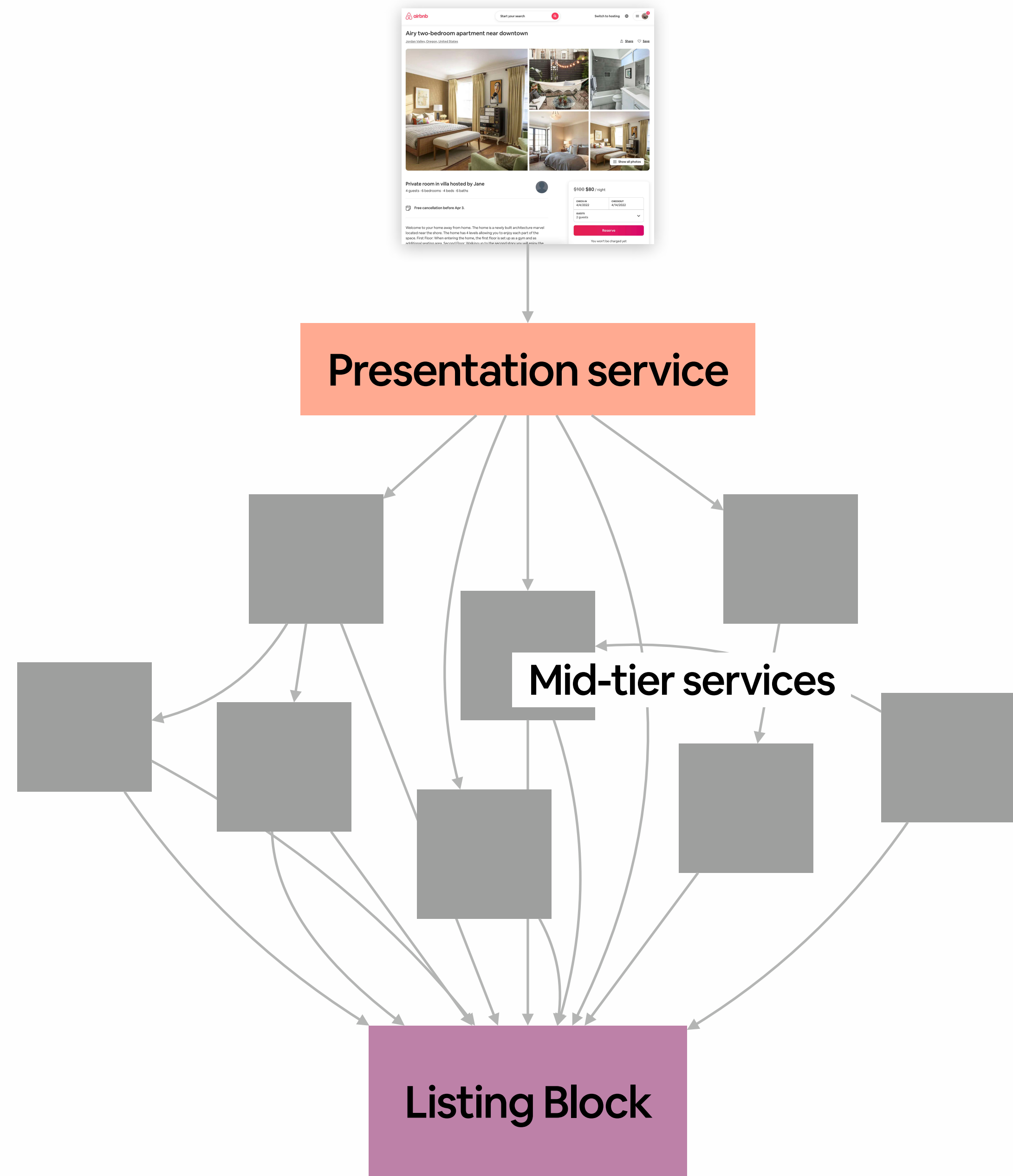
\$80 / night

CHECK-IN 4/4/2022	CHECKOUT 4/14/2022
GUESTS 2 guests	

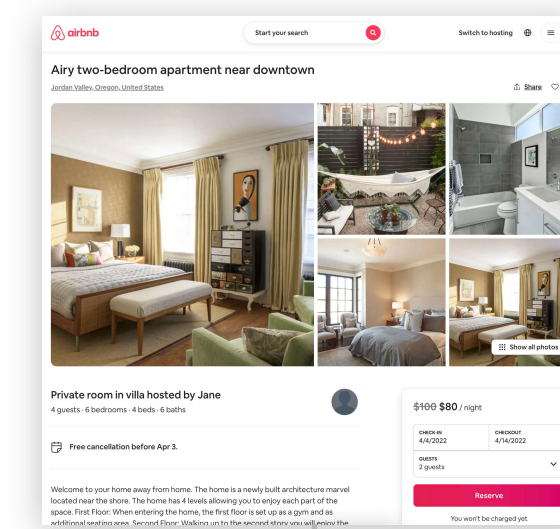
Reserve

You won't be charged yet

Before:
Up to 11 calls
to the listing block



After:
Down to 1 call



Viaduct

Fields

Derived Fields

Optimized Data Fetching

Listing Block

Dev tool to explore schema

MyQuery

GraphQL URL

Preset URL Service

URL

Refetch schema

Load from operation registry

HTTP ... 1 header

Platform Web

Operation Id

Create GlobalID

Typename

Internal ID

→

Global ID

Switch to parse

Explorer

query MyQuery

reservations

listings

node

nodes

users

GraphiQL

Explorer

History

Prettify

Share query

Include headers

Allow codegen directives

1 query MyQuery {

2 __typename ## Placeholder value

3 }

4

QUERY VARIABLES

1

Documentation Explorer

Search Schema...

A GraphQL schema provides a root type for each kind of operation.

ROOT TYPES

query: Query

mutation: Mutation

Add new

Query

+

@selinahliu

```

type Reservation
    @owners(list: "airbnb/homes-reservations")
    @privacy(entityType: "RESERVATION")
    @servicePoweredType(
        service: "ReservationDataService"
        methodName: "/v2/getReservationsByIds"
        defaultParams: "" { "consistency": "EVENTUAL" } ""
    ) {
        id: ID
        startDate: Date
        endDate: Date
        guestId: Long
        guest: User @servicePoweredTypeKey(path: "guestId")
        listingId: Long
        listing: Listing @servicePoweredTypeKey(path: "listingId")
        hostFacingStatus: String
            @derivedField(classPath: "HostFacingStatusProvider")
        ...
    }

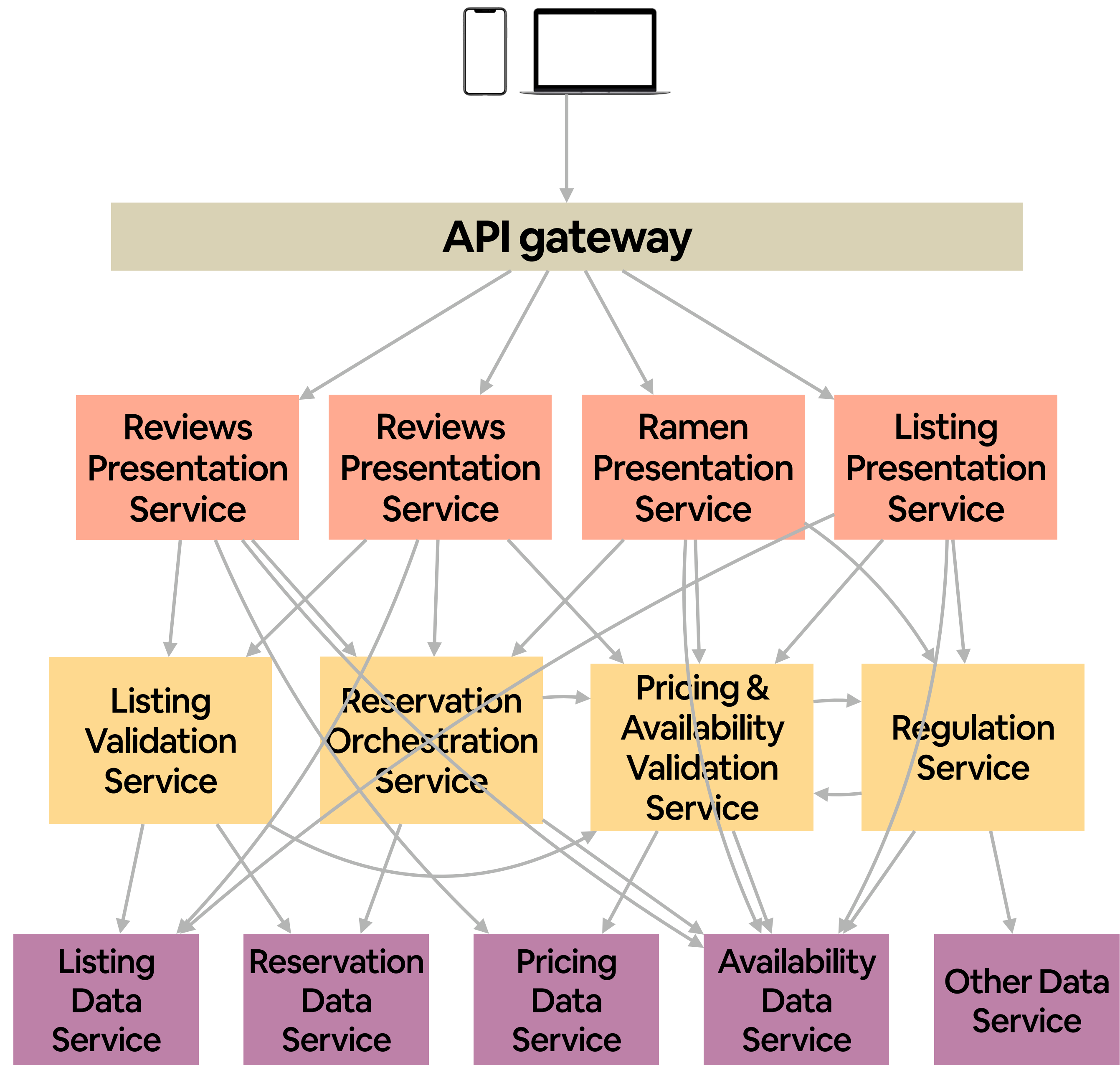
```

Invest in common infra early

Simplify service dependencies

Platformize data hydration

Unify client-facing API



UI Platform

UNIFIED SERVER-DRIVEN UI

UI Platform

UNIFIED SERVER-DRIVEN UI



TodayInbox¹CalendarInsightsMenu ▾



Reservation details

Print

PAST GUEST

Selina Liu

5 guests · 5 nights · \$1,479.25
3B+Loft Cabin-Forest/Creek views! Family friendly!



Overall rating ★★★★★

Lovely cabin with fully-equipped kitchen, open backyard to the woods, and lots of room. The common space was conducive to indoor group activities while the rooms offered...

View details

★ 5.0 avg rating · 22 reviews

🔒 Identity verified

📅 Joined in December 2015

🏠 Lives in San Francisco, CA

🗣️ Speaks 中文, English

👤 Also a host

View profile

Message

Call

Phone number unavailable

Guests

5 adults

Check-in

Wed, Jul 8, 2020

Check-out

Mon, Jul 13, 2020

UI Platform

UNIFIED SERVER-DRIVEN UI



TodayInbox¹CalendarInsightsMenu ▾



Reservation details

Page Title Section

Print

PAST GUEST

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3B+Loft Cabin-Forest/Creek views! Family friendly!

Header Section



Overall rating ★★★★★

Lovely cabin with fully-equipped kitchen, open backyard to the woods, and lots of room. The common space was conducive to relaxing & socializing while the rooms offered...

View details

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👤 Also a host

View profile

Bullet List Section

Message

Call

Phone number unavailable

Button Group Section

Guests

Label Value Row Section

5 adults

Check-in

Label Value Row Section

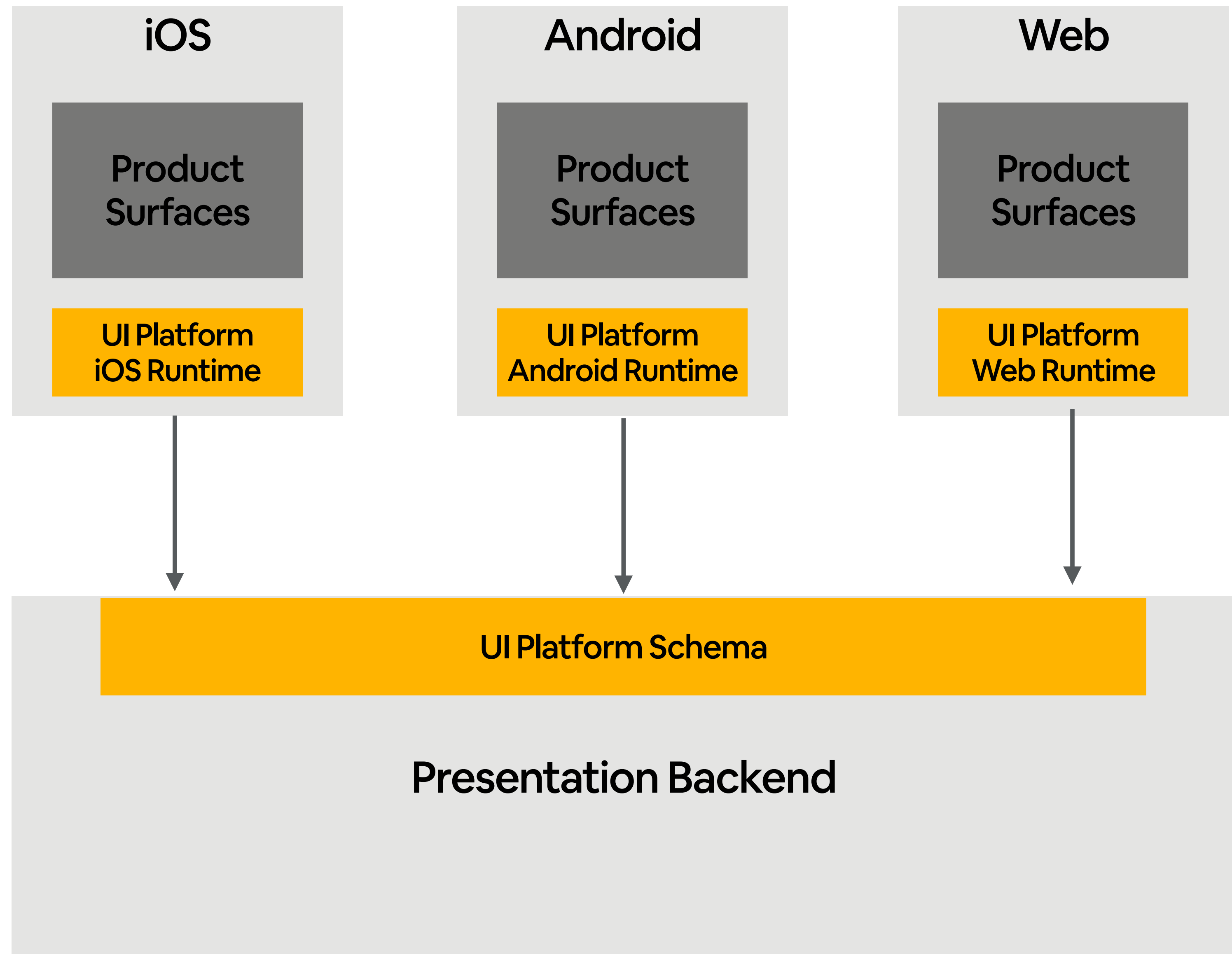
Wed, Jul 8, 2020

Check-out

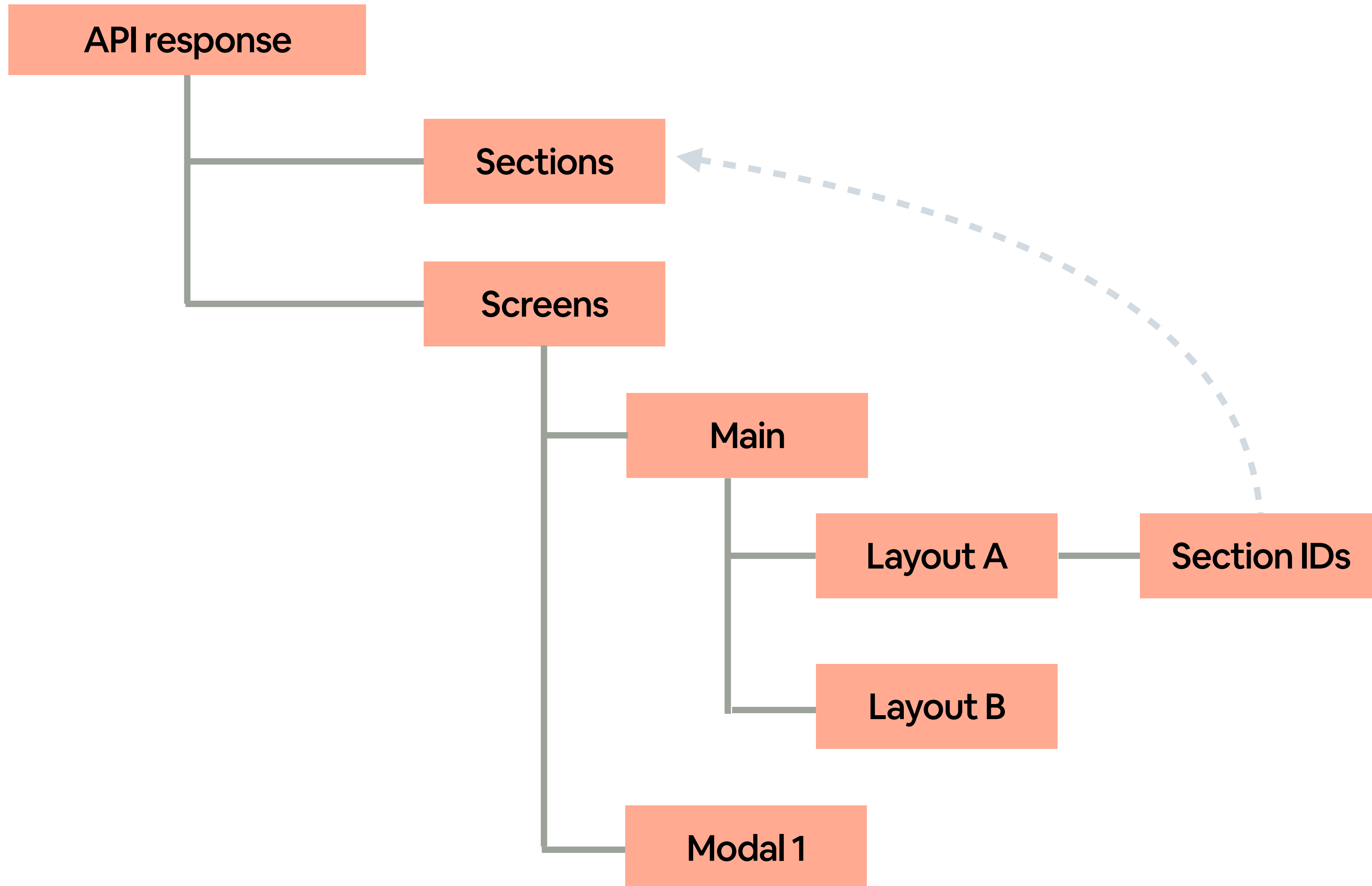
Label Value Row Section

Mon, Jul 13, 2020

UI Platform



UI Platform: Standardized API Response



Zooming into each section

```
type SectionContainer {  
  id: ID!  
  sectionId: String  
  sectionContentStatus: SectionContentStatus  
  uiComponentType: UIComponentType  
  sectionData: SectionData  
  errors: [SectionErrorDetail]  
}
```

Schema Definition

```
{  
  "__typename": "SectionContainer",  
  "id": "f6646aec-ca3f-45a3-92a2",  
  "sectionId": "USER_HIGHLIGHTS",  
  "sectionContentStatus": "COMPLETE",  
  "uiComponentType": "BULLETED_LIST",  
  "sectionData": {  
    "__typename": "ListSectionData",  
    "listItems": [  
      {  
        "icon": "MAP_PIN_ICON",  
        "text": "Lives in Oslo, Norway"  
      },  
      ...  
    ]  
  },  
  "errors": null  
}
```

Sample Data:
User Highlights Section on HRD

Zooming into each section

```
type SectionContainer {  
  id: ID!  
  sectionId: String  
  sectionContentStatus: SectionContentStatus  
  uiComponentType: UIComponentType  
  sectionData: SectionData  
  errors: [SectionErrorDetail]  
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```

Schema Definition

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        "text": "Lives in Oslo, Norway"  
      },  
      ...  
    ]  
  },  
  "errors": null  
}
```

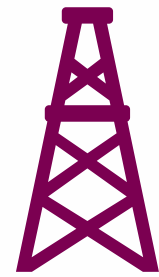
Sample Data:
User Highlights Section on HRD

Key Features



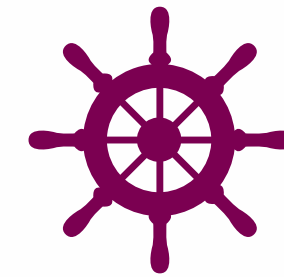
Layouts & Placements

Flexibility for product design needs



Deferred sections

Improve initial page load time



Logging

Log section impressions and UI actions automatically

Dev tool to visualize UI

Reservation details

TRIP REQUESTED

Mirabelle L

3 guests · 3 nights · €274.74

Big studio flat / Grand studio à 5 min de Paris

You just got a request for Oct 16 – 19. Accept if you can host, or decline if these dates don't work for you.

Decide within 10:03:18 to maintain your response rate.

Accept

Decline



Protected by the Airbnb [Host Guarantee](#) and [Host Protection Insurance](#).

★ 5.0 avg rating · 7 reviews

🛡️ Identity verified

📅 Joined in October 2017

🏠 Lives in Sofia, Bulgaria

[View profile](#)

Most recent review

Ivan's group was perfect in everything

Message

Path to section data in JSON

data.presentation.stayHostReservation.configuration

JSON Input

```
"sectionComponentType": "PAGE_TITLE_HRD",
"sectionContentStatus": "COMPLETE",
"sectionId": "PAGE_TITLE",
"errors": null,
"sectionDependencies": null,
"enableDependencies": null,
"disableDependencies": null,
"loggingData": null,
"e2eLoggingSession": null,
"mutationMetadata": null,
"pluginPointId": null,
"section": {
  "__typename": "GeneralContentSection",
  "button": {
    "__typename": "Button",
    "accessibilityLabel": null,
    "title": "Print",
    "subtitle": null,
    "variant": "SECONDARY",
    "state": "DEFAULT",
    "icon": null,
    "action": {
      "__typename": "PrintAction",
      "..."
    }
  }
}
```

UI Platform



Today

Inbox 1

Calendar

Insights

Menu 





Reservation details

Print

PAST GUEST

Selina Liu

5 guests · 5 nights · \$1,479.25

3B+Loft Cabin-Forest/Creek views! Family friendly!



Overall rating 

Lovely cabin with fully-equipped kitchen, open backyard to the woods, and lots of room. The common space was conducive to relaxing and socializing while the rooms offered...

[View details](#)

★ 5.0 avg rating · 22 reviews

♥ Identity verified

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👤 Also a host

[View profile](#)

Message

Call

Phone number unavailable

Guests

5 adults

Check-in

Wed, Jul 8, 2020

Check-out

Mon, Jul 13, 2020

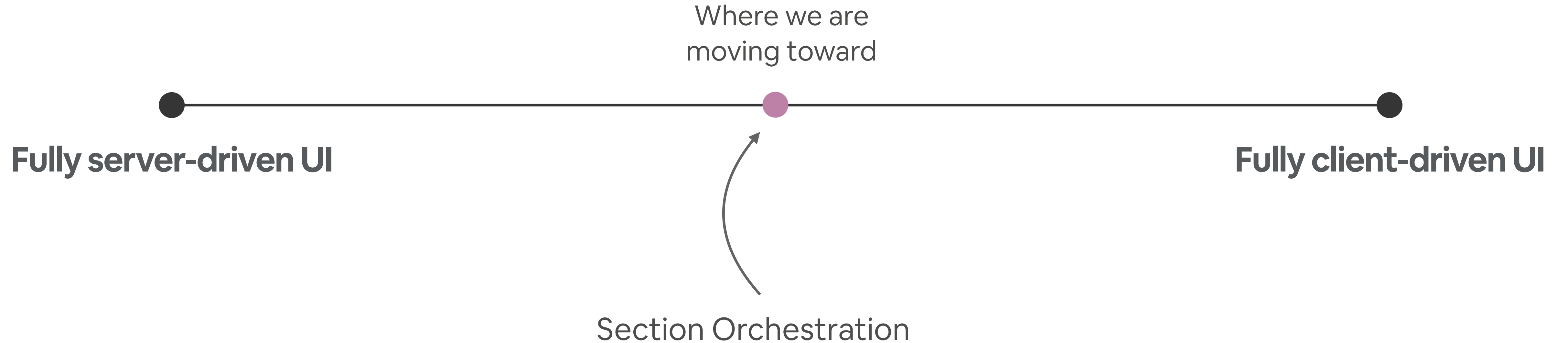
@selinahliu

Where on the spectrum?

Where we are



Where on the spectrum?

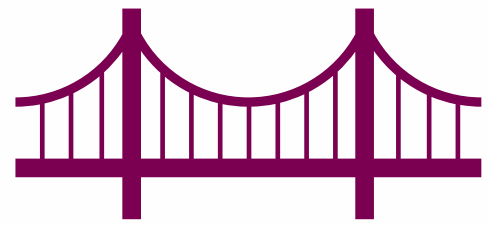


To recap



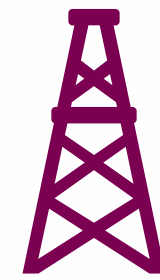
Invest in common
infrastructure early on
to turbo-charge your SOA migration.

Common Infra



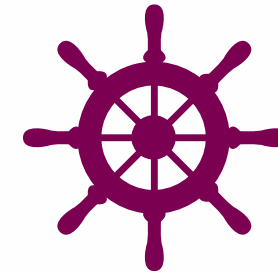
API Framework

Define clean, strongly typed API in Thrift



Powergrid

Execute tasks in parallel



OneTouch

Configure and manage services



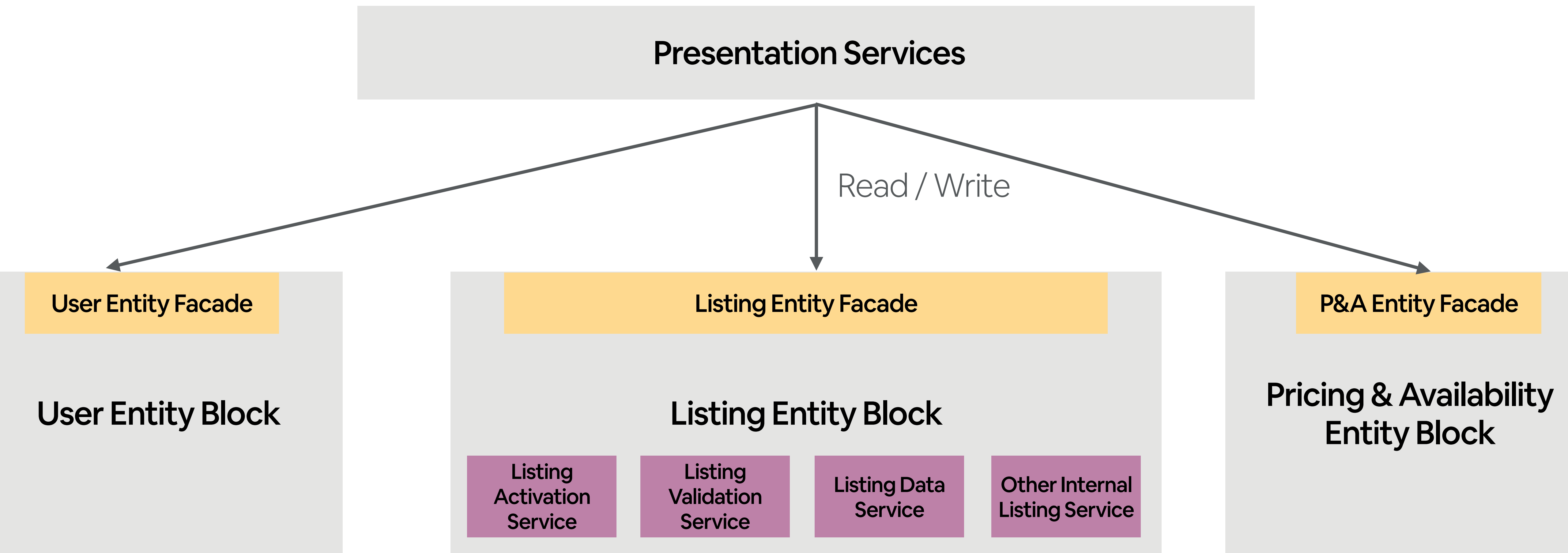
Spinnaker

Deploy services with automated error analysis



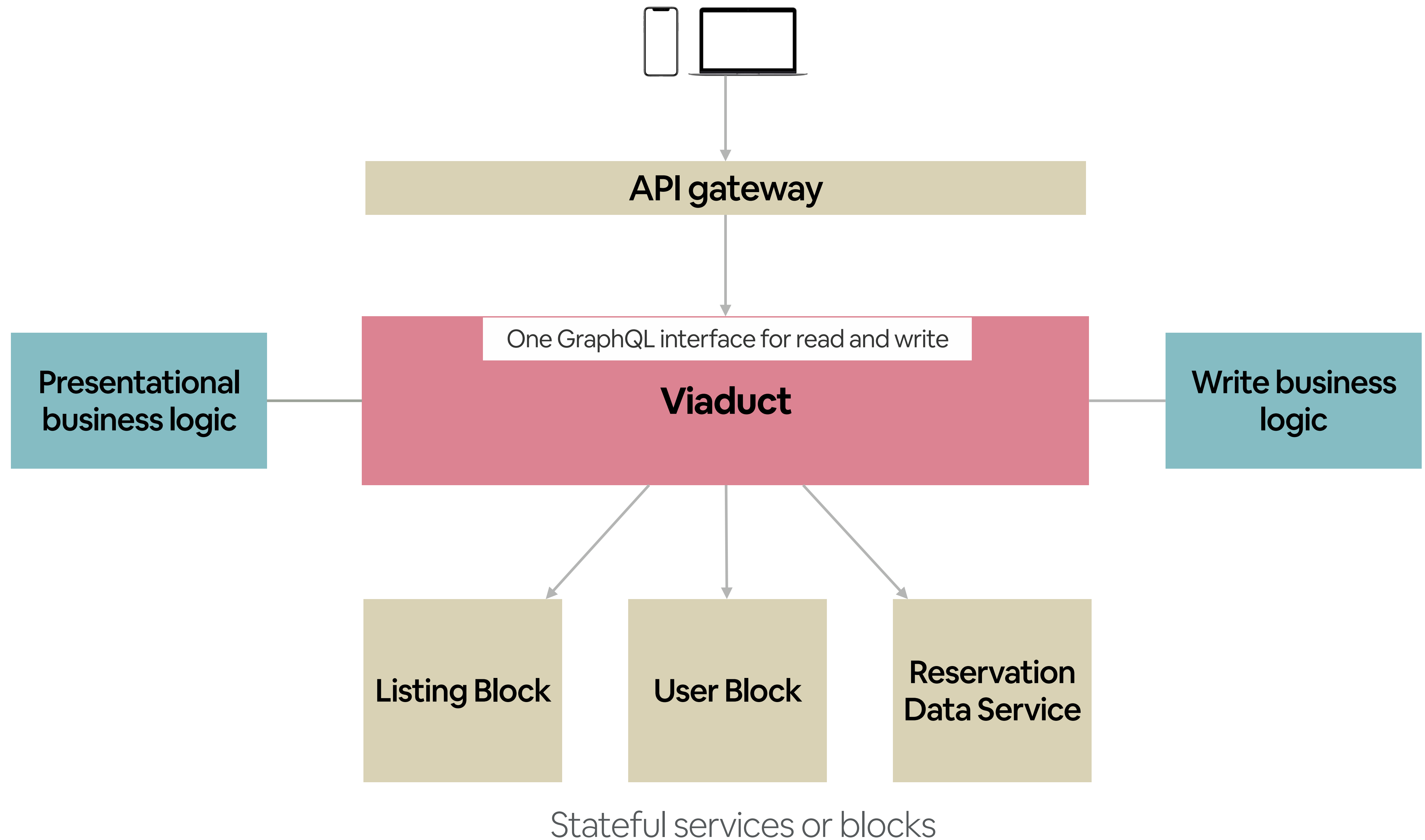
Simplify service dependencies
to scale quickly and safely.

Service Blocks





Platformize data hydration
to focus on what matters.



Unify client-facing API

to support ever-changing product needs.

Image from Airbnb

UI Platform



TodayInbox¹CalendarInsightsMenu ▾



Reservation details

Page Title Section

Print

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View details

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Bullet List Section

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Phone number unavailable

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Guests

Label Value Row Section

5 adults

Check-in

Label Value Row Section

Wed, Jul 8, 2020

Check-out

Label Value Row Section

Mon, Jul 13, 2020

Invest in common infra early

Simplify service dependencies

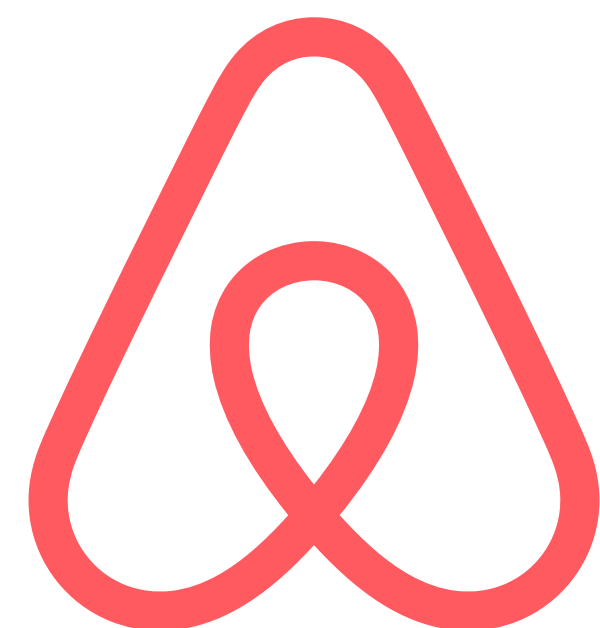
Platformize data hydration

Unify client-facing API



SOA is not a fixed destination.





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All images have been labeled with their respective sources either in the corner of the slide or in speaker notes.