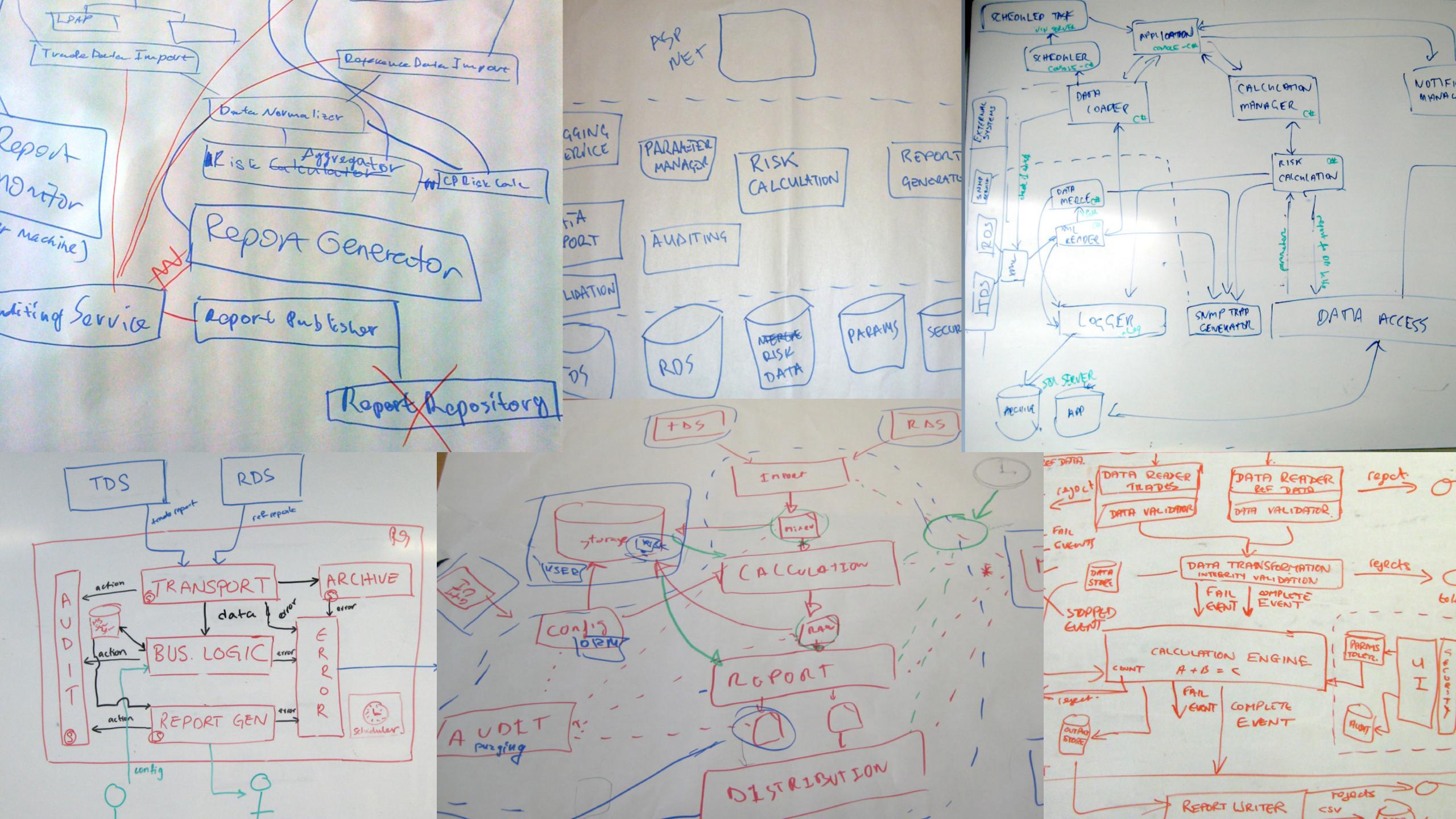
The C4 model

Misconceptions, misuses, and mistakes

What is the C4 model?





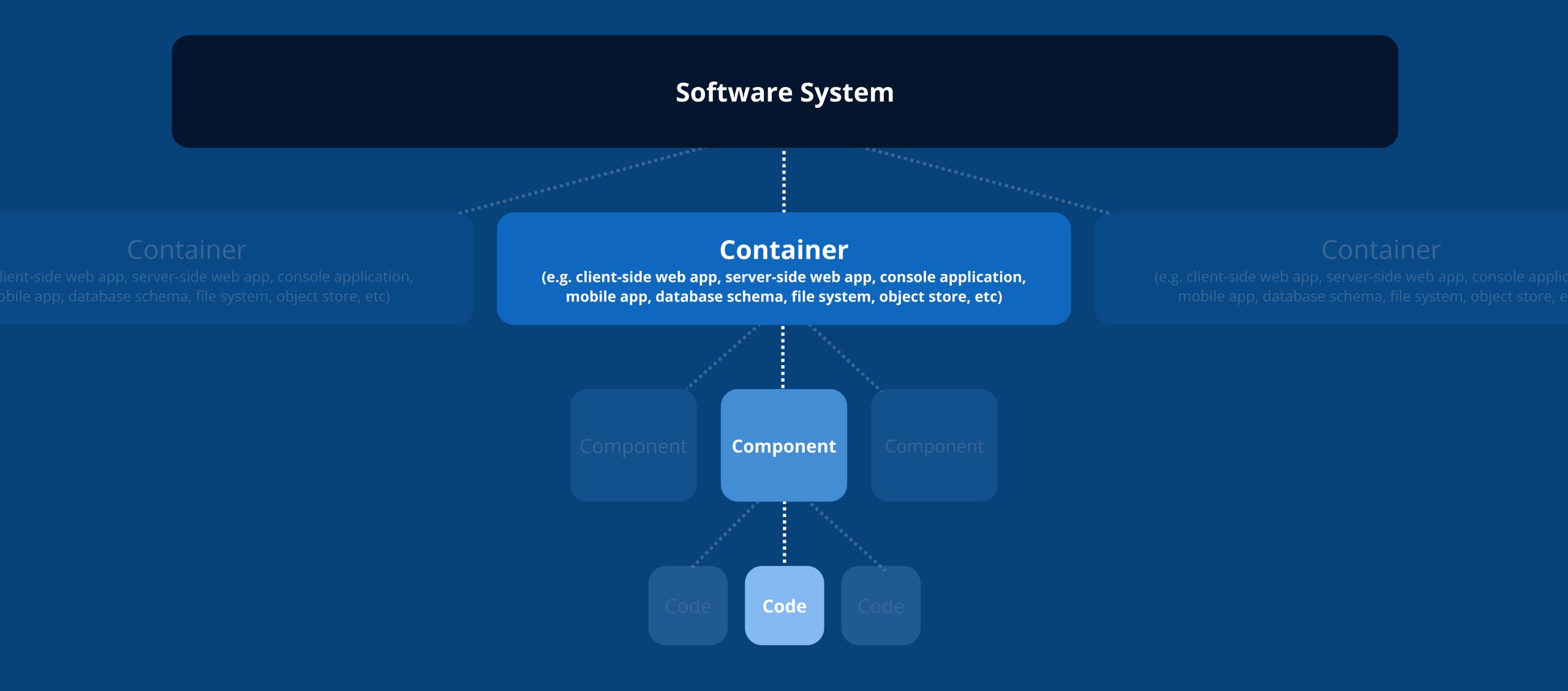
97 Ways to Sidestep UML

```
#2 "Not everybody else on the team knows it."
#3 "I'm the only person on the team who knows it."
             #36 "You'll be seen as old."
       #37 "You'll be seen as old-fashioned."
              #66 "The tooling sucks."
               #80 "It's too detailed."
      #81 "It's a very elaborate waste of time."
           #92 "It's not expected in agile."
       #97 "The value is in the conversation."
```

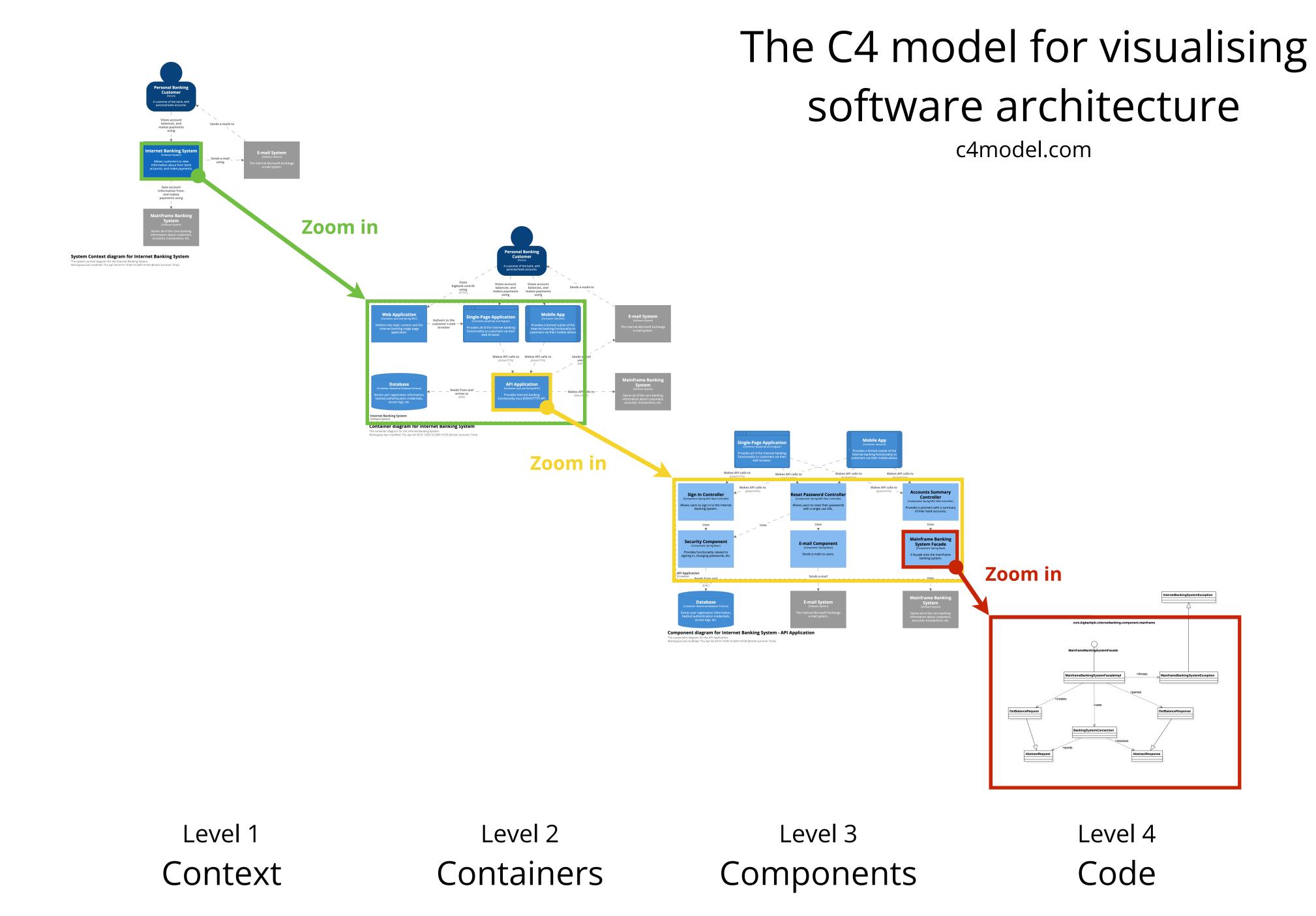


c4model.com

A way to introduce some **structure** to "boxes & lines" diagrams, using a **self-describing notation**

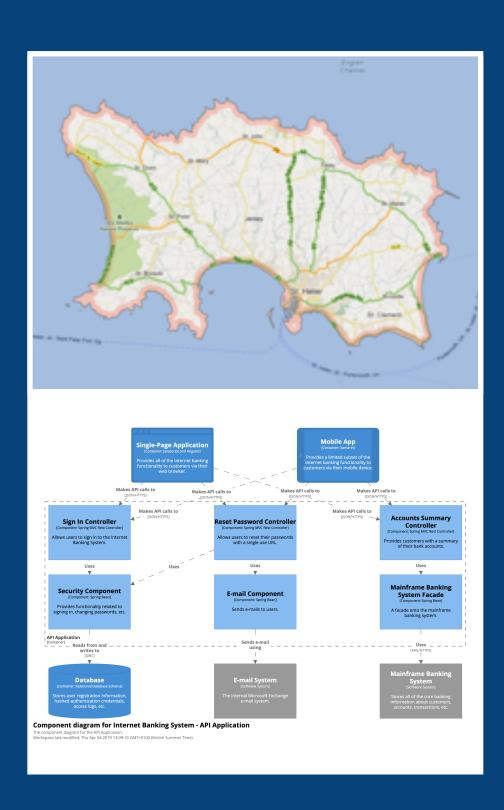


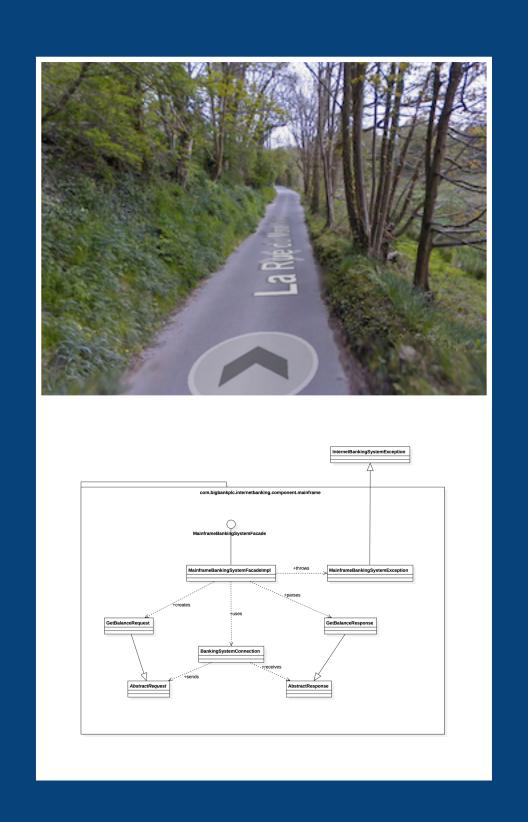
A **software system** is made up of one or more **containers** (applications and data stores), each of which contains one or more **components**, which in turn are implemented by one or more **code** elements (classes, interfaces, objects, functions, etc).











Diagrams are maps

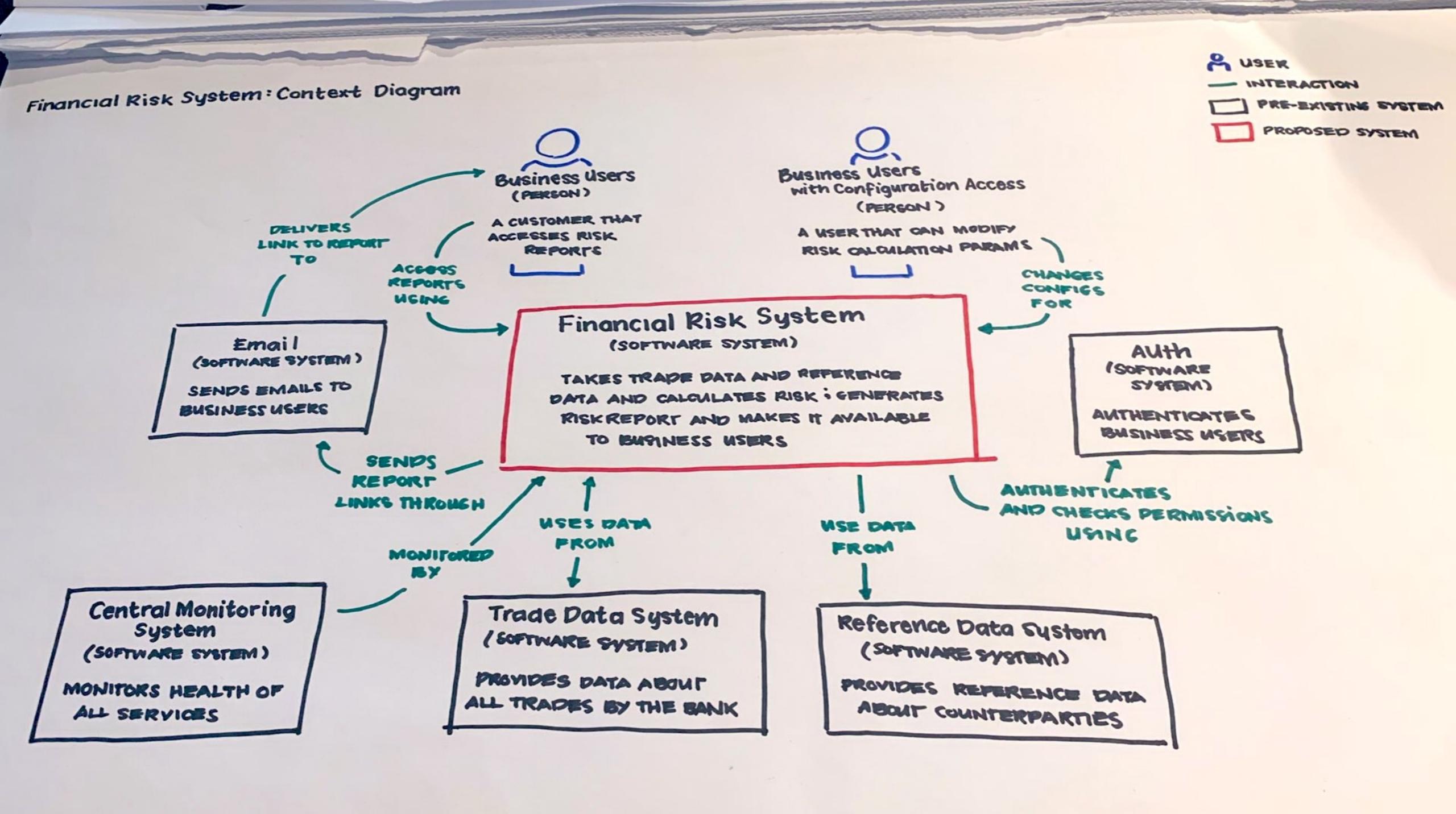
that help software developers navigate a large and/or complex codebase

System Context diagram

What is the scope of the software system we're building?

Who is using it? What are they doing?

What system integrations does it need to support?

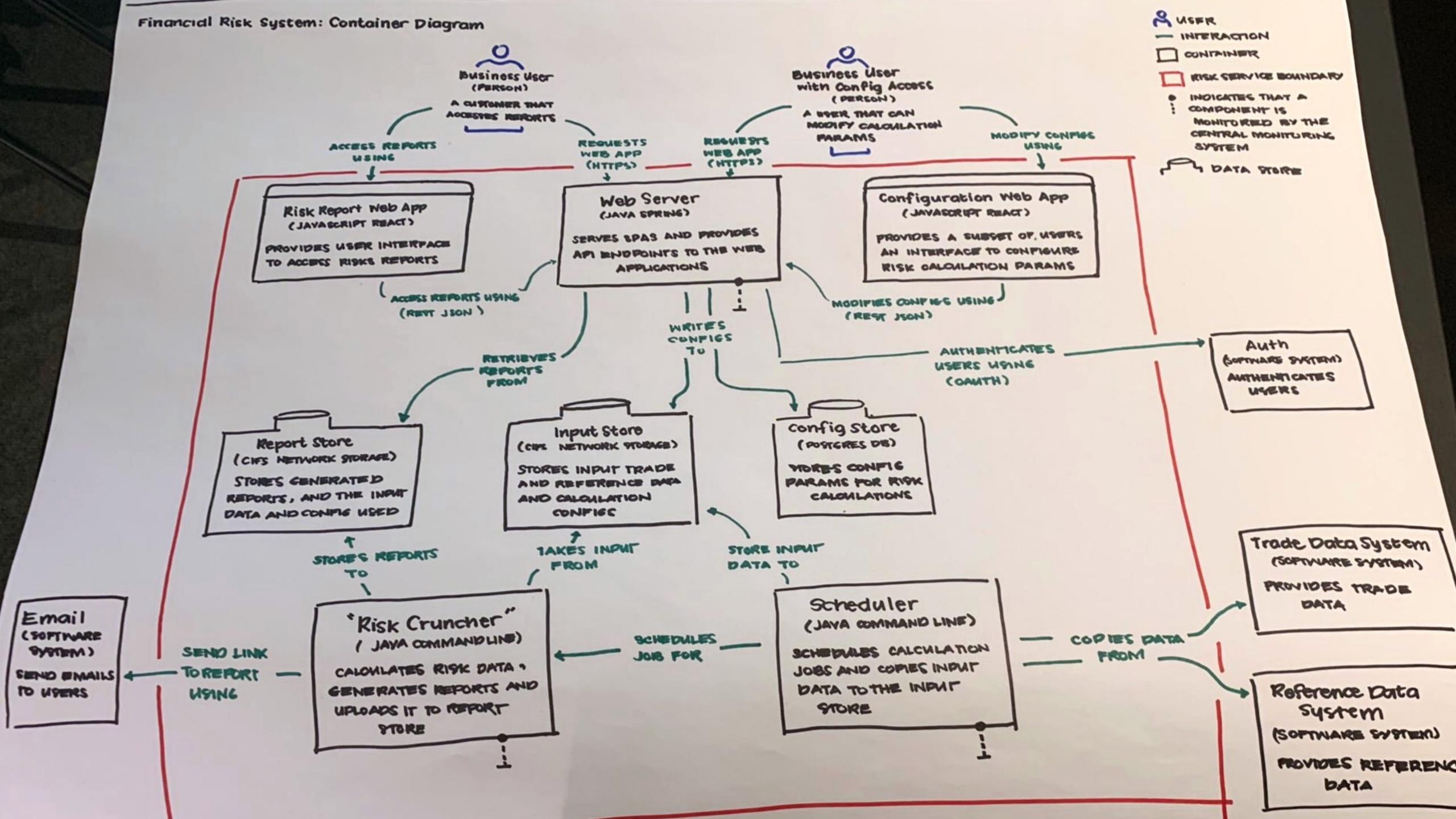


Container diagram

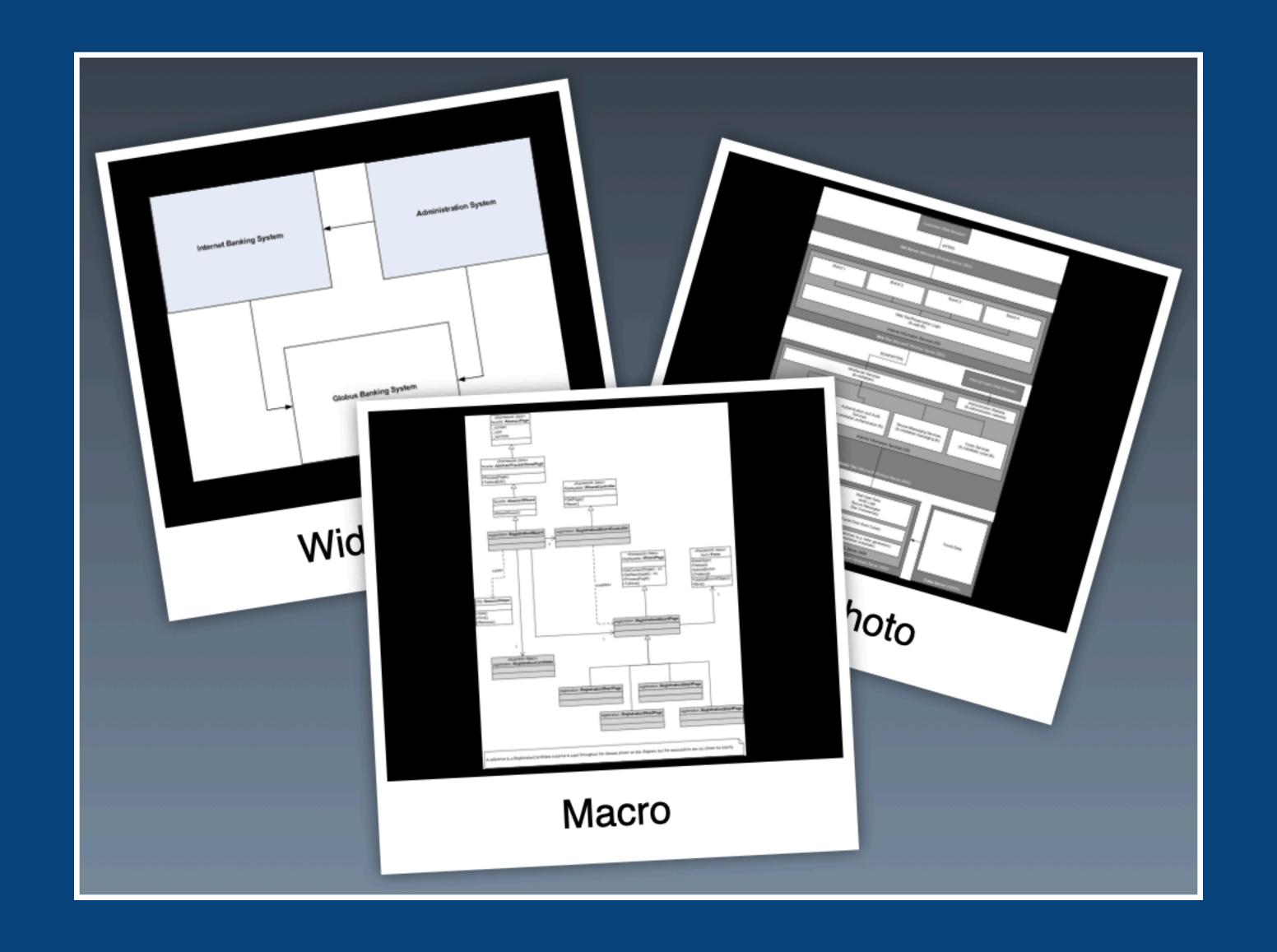
What are the major technology building blocks?

What are their responsibilities?

How do they communicate?

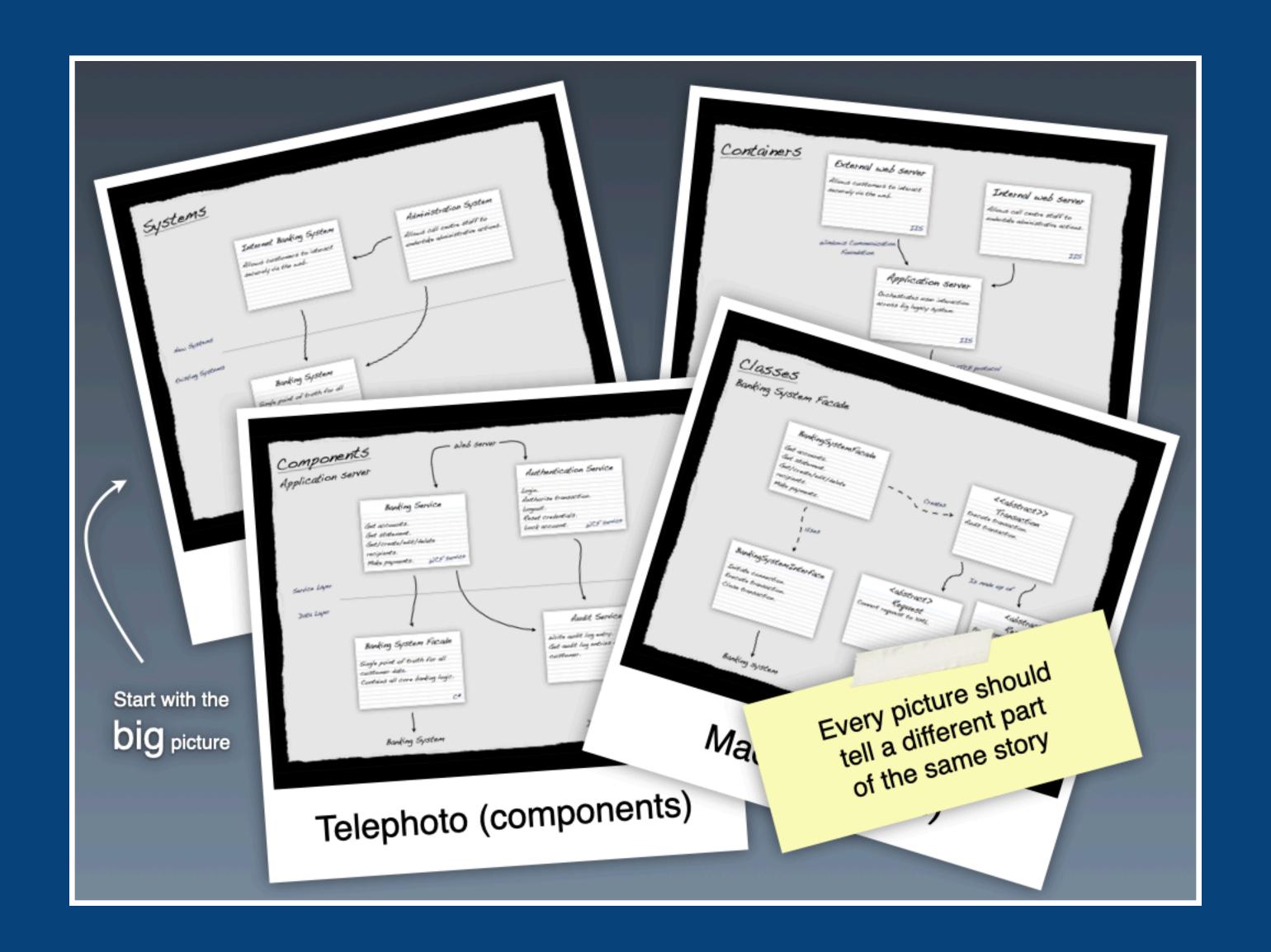


I've only just heard of the C4 model - I guess it's new?



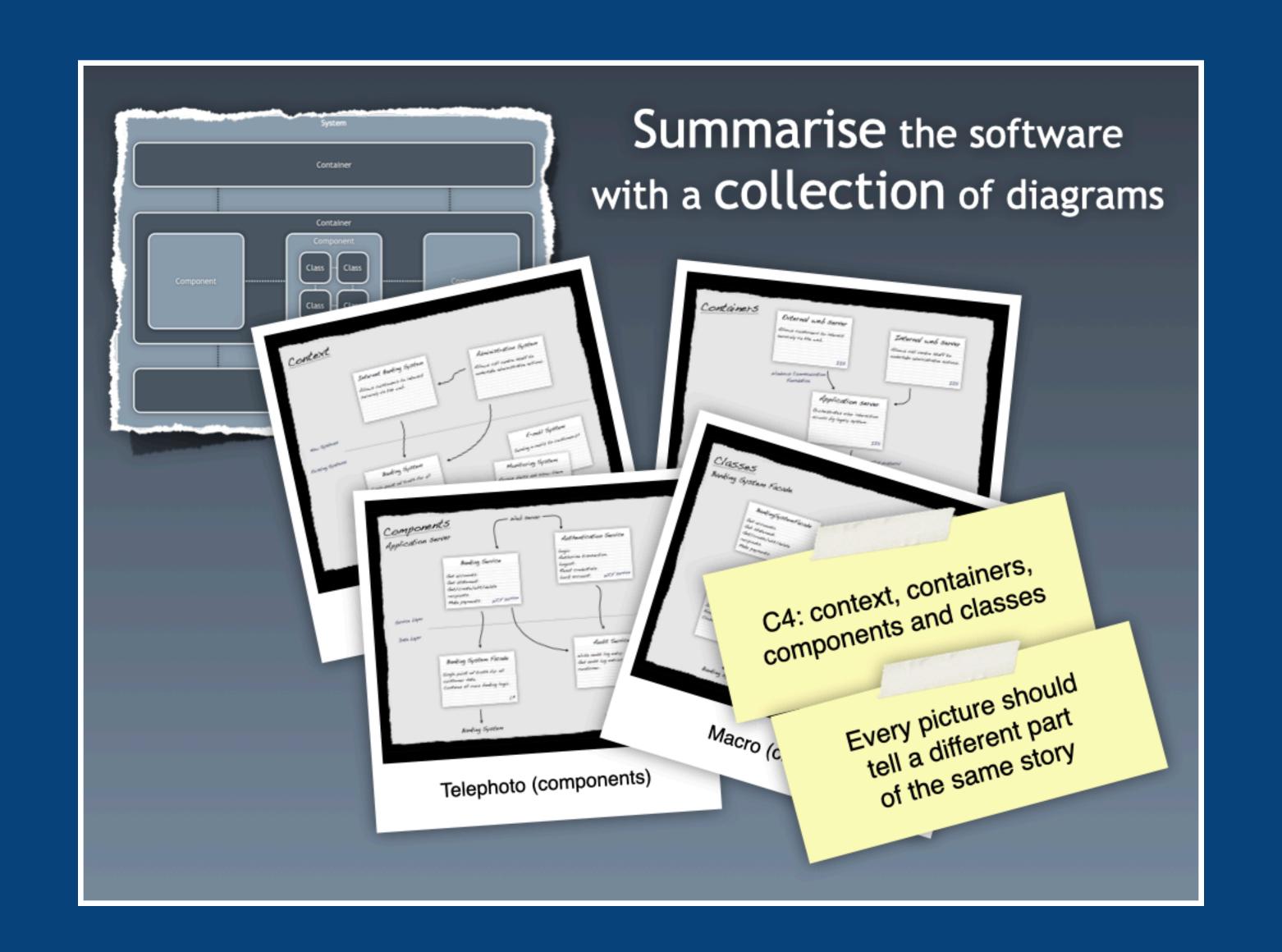
"Software architecture for developers"

QCon London 2010



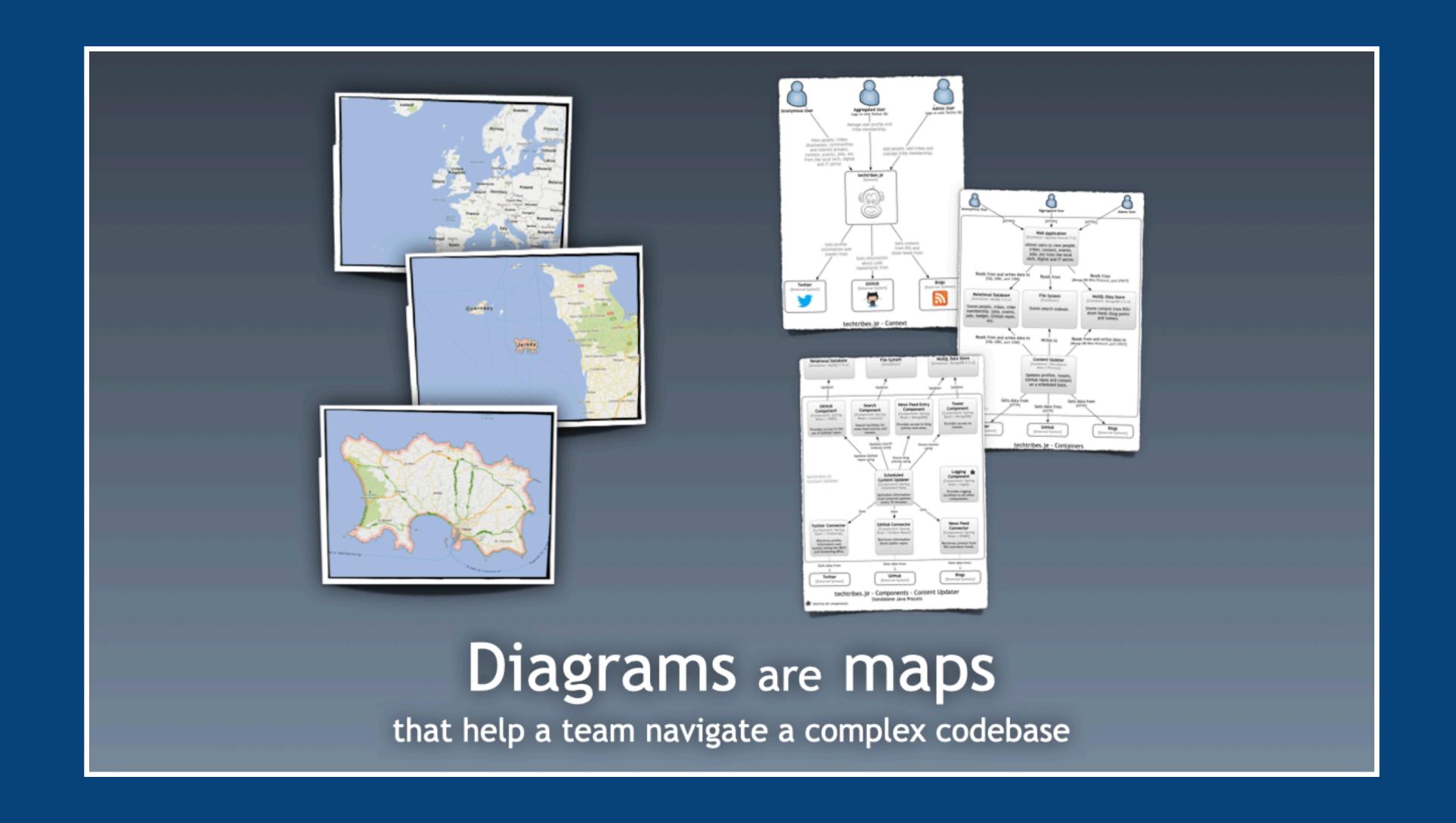
"Where do you start?"

IASA London, March 2010



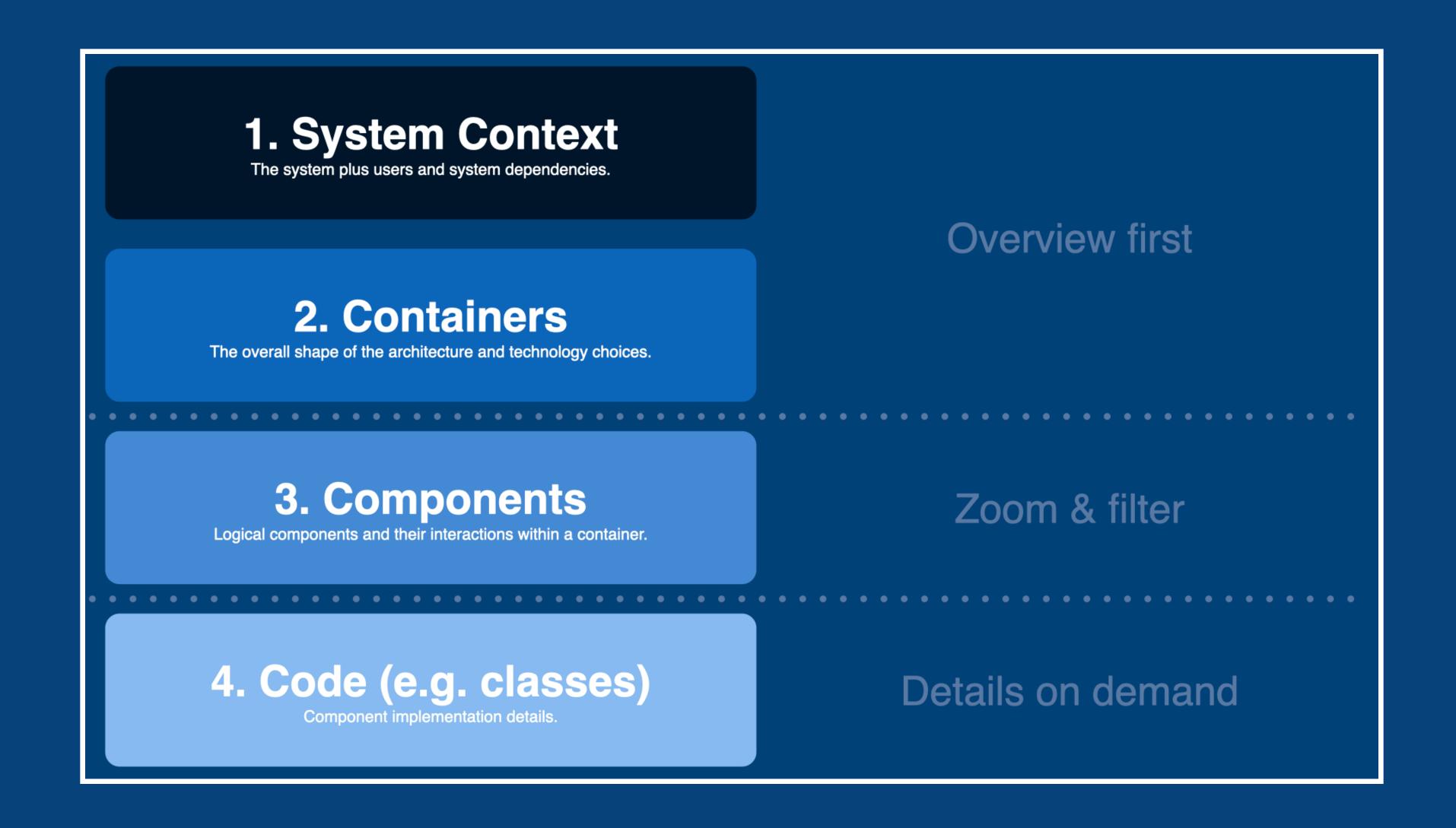
"Software architecture for developers"

QCon London 2011



"Software architecture as code"

Devoxx UK 2015



"Visualise, document, and explore your software architecture"

Build Stuff Spain 2018

Why did you reinvent UML?

HOW STANDARDS PROLIFERATE:
(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

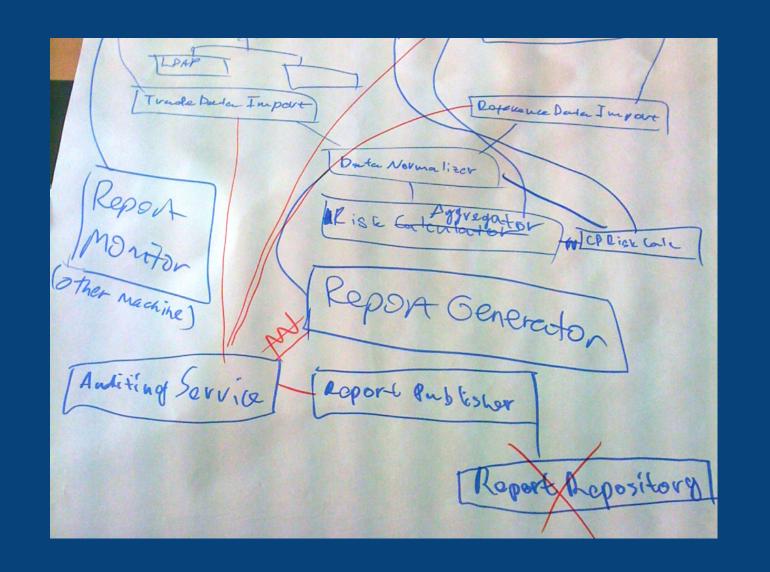
SITUATION: THERE ARE 14 COMPETING STANDARDS.

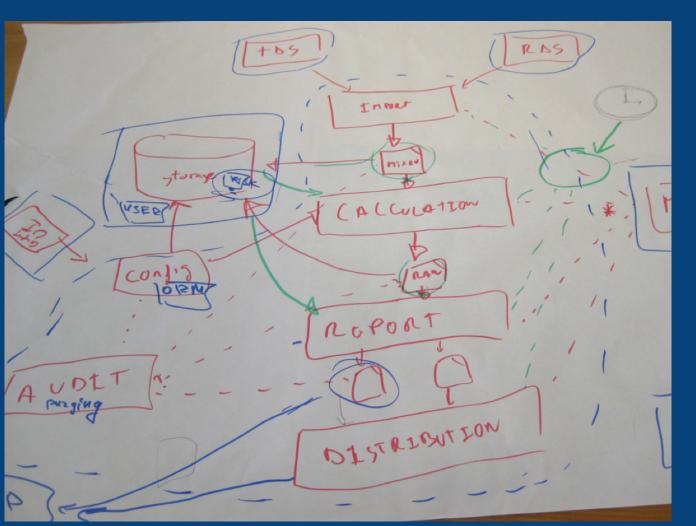


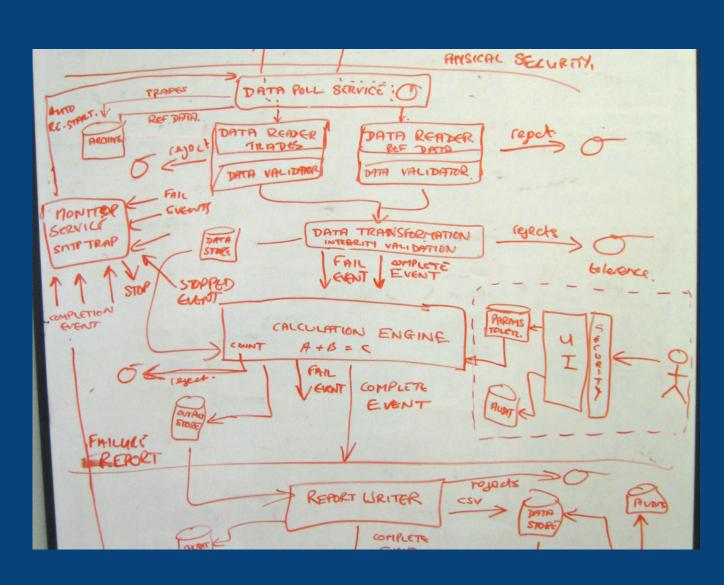
500N:

SITUATION: THERE ARE 15 COMPETING STANDARDS.

C4 wasn't designed to replace UML







C4 was designed to bring structure to the typical ad hoc "boxes and arrows" diagrams teams typically create because they are no longer using UML

The C4 model is...

A set of hierarchical abstractions

(software systems, containers, components, and code)

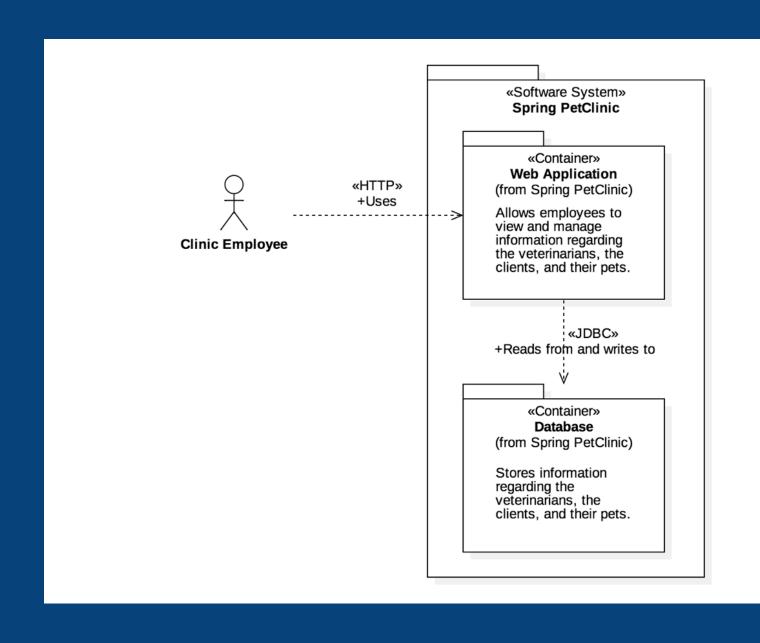
A set of hierarchical diagrams

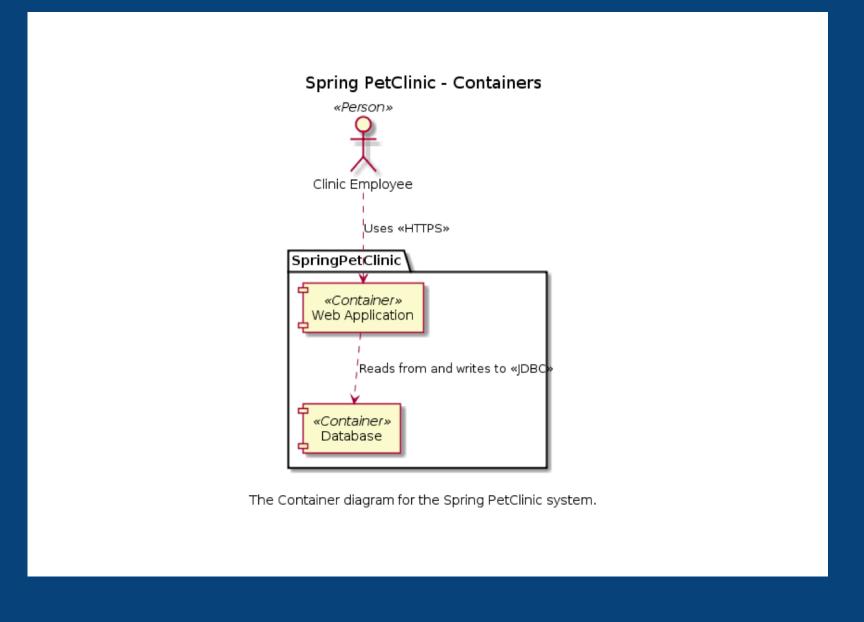
(system context, containers, components, and code)

Notation independent

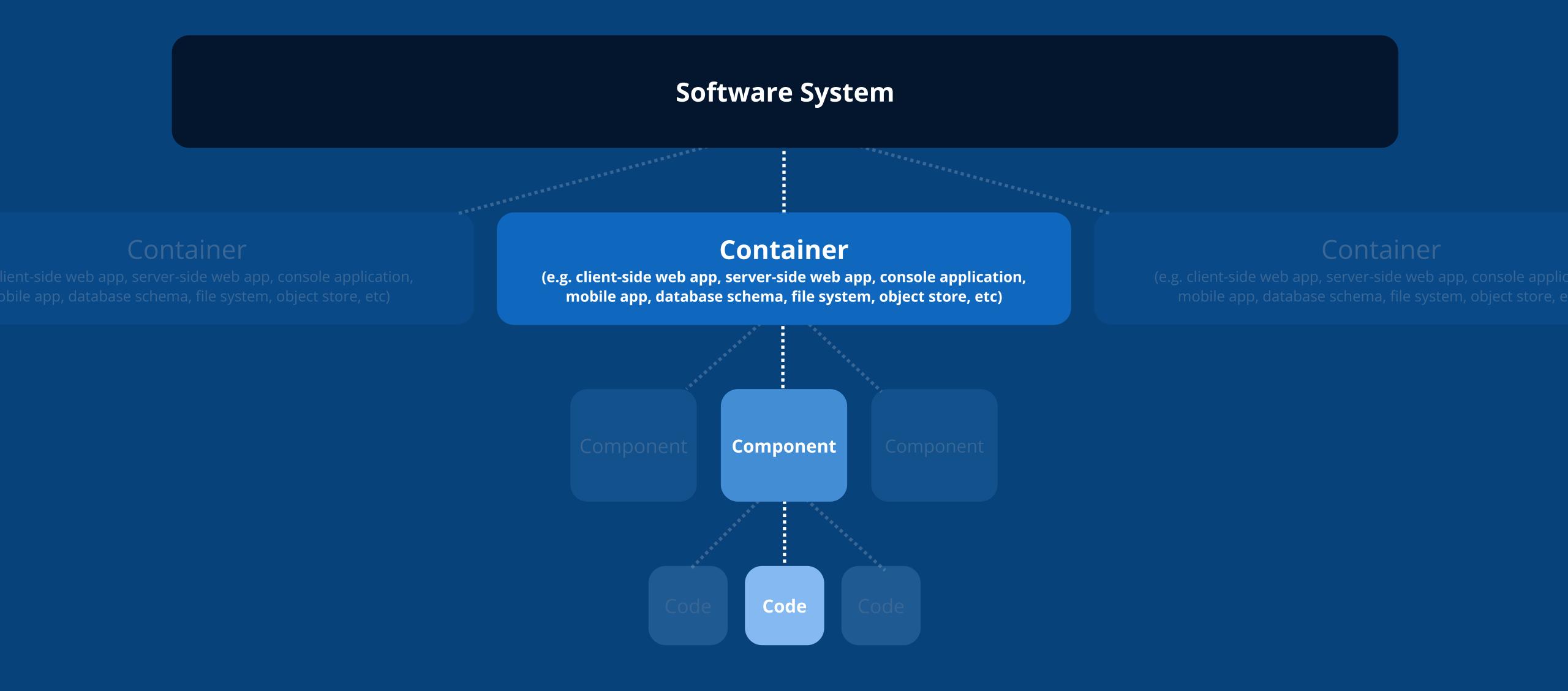
Tooling independent

UML + C4 model abstractions and diagram types





Few people use level 4. Why not just call it C3?



A **software system** is made up of one or more **containers** (applications and data stores), each of which contains one or more **components**, which in turn are implemented by one or more **code** elements (classes, interfaces, objects, functions, etc).

Notation

The blue and grey notation is boring

The C4 model is...

A set of hierarchical abstractions

(software systems, containers, components, and code)

A set of hierarchical diagrams

(system context, containers, components, and code)

Notation independent

Tooling independent

C4 model

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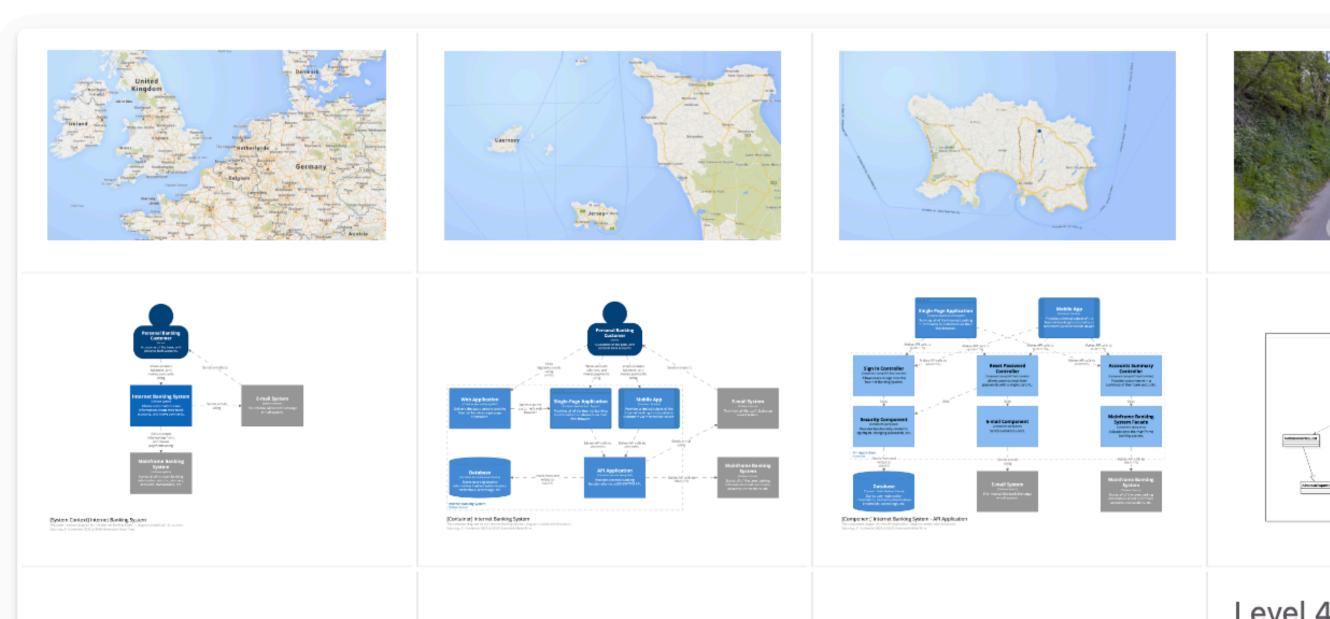
More information

License

Training/workshops <a>□

Maps of your code

The C4 model was created as a way to help software development teams describe and communicate software architecture, both during up-front design sessions and when retrospectively documenting an existing codebase. It's a way to create "maps of your code", at various levels of detail, in the same way you would use something like Google Maps to zoom in and out of an area you are interested in.



Level 1: A system context diagram

V

 \checkmark

provides a starting point, showing how the software system in scope fits into the world around it.

Level 2: A container
diagram zooms into the
software system in
scope, showing the
applications and data
stores inside it.

Level 3: A component diagram zooms into an individual container, showing the components inside it.

Level 4: A code diagram
(e.g. UML class) can be
used to zoom into an
individual component,
showing how that
component is
implemented at the
code level.

C4 model

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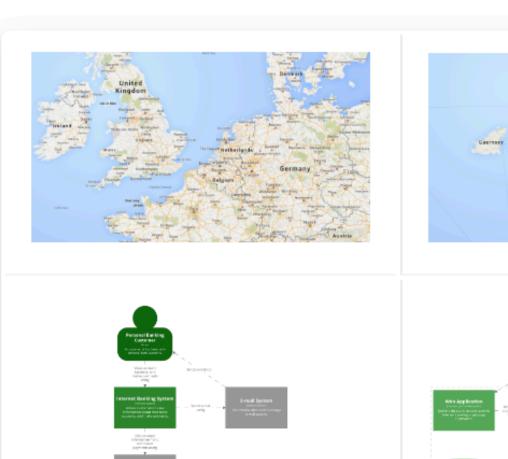
Training/workshops <a>□

Maps of your code

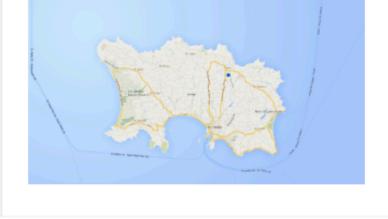
V

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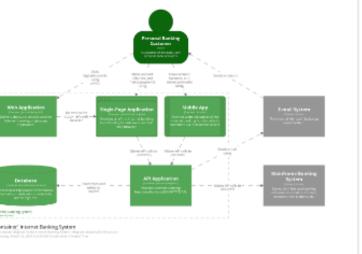
The C4 model was created as a way to help software development teams describe and communicate software architecture, both during up-front design sessions and when retrospectively documenting an existing codebase. It's a way to create "maps of your code", at various levels of detail, in the same way you would use something like Google Maps to zoom in and out of an area you are interested in.

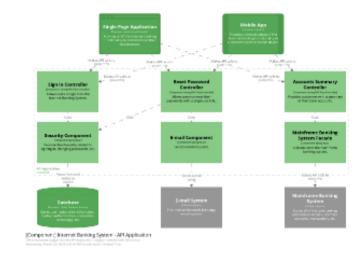


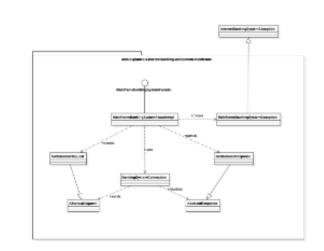












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C4 model

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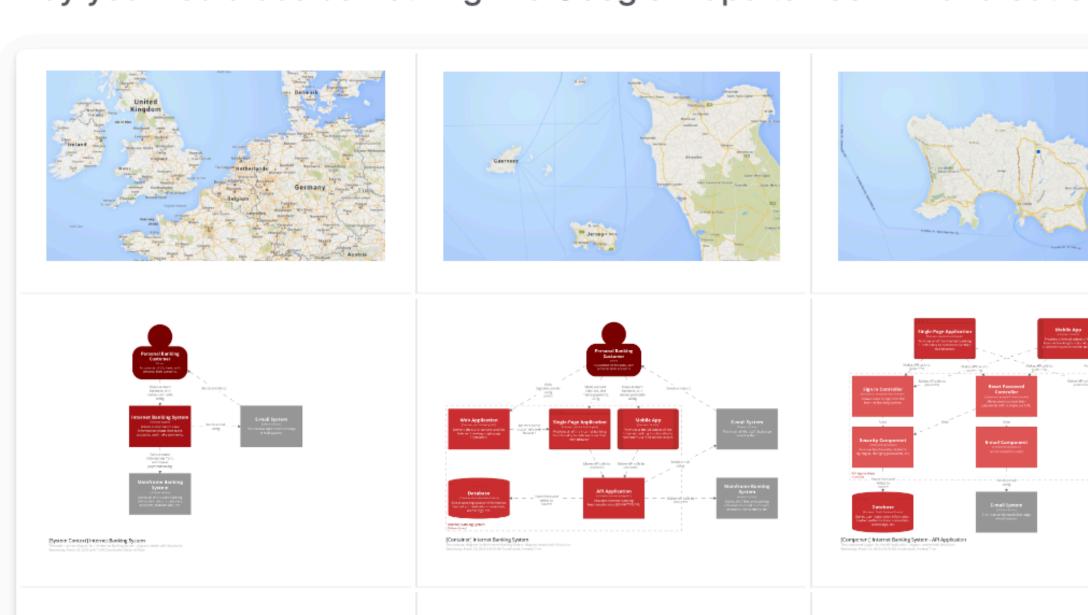
Training/workshops <a>□

Maps of your code

V

V

The C4 model was created as a way to help software development teams describe and communicate software architecture, both during up-front design sessions and when retrospectively documenting an existing codebase. It's a way to create "maps of your code", at various levels of detail, in the same way you would use something like Google Maps to zoom in and out of an area you are interested in.



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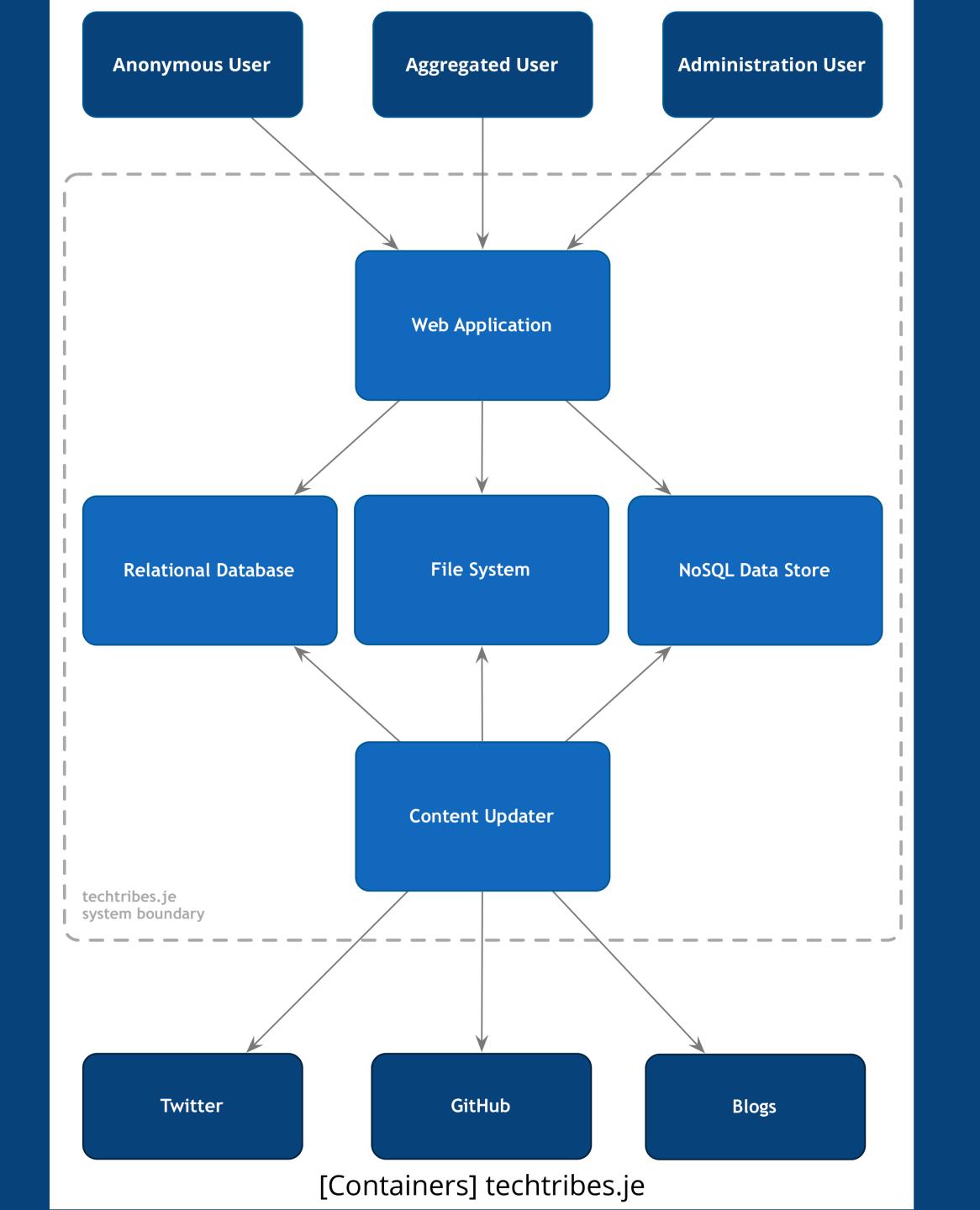
Level 3: A component diagram zooms into an individual container, showing the components inside it.

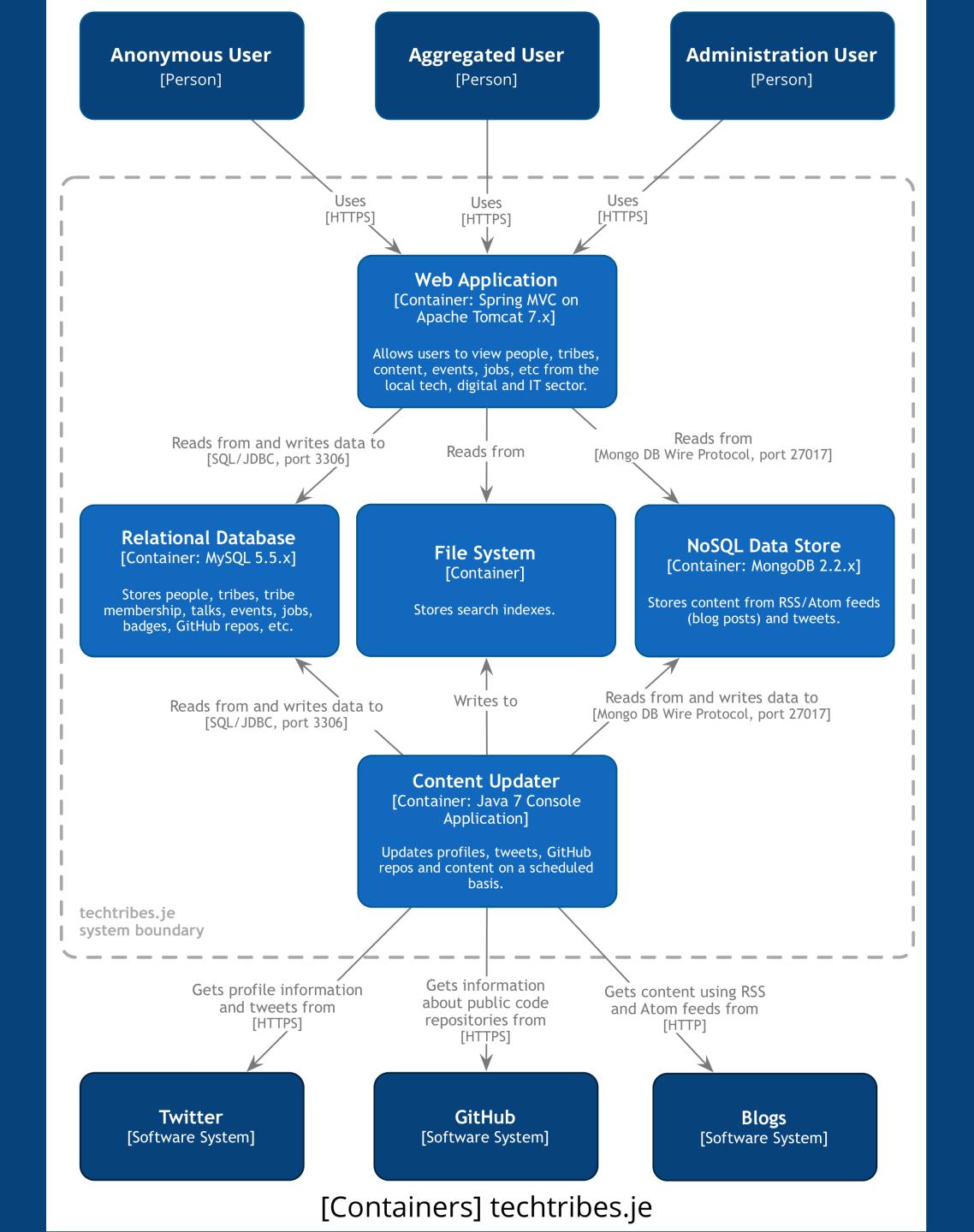
Level 4: A code diagram
(e.g. UML class) can be
used to zoom into an
individual component,
showing how that
component is

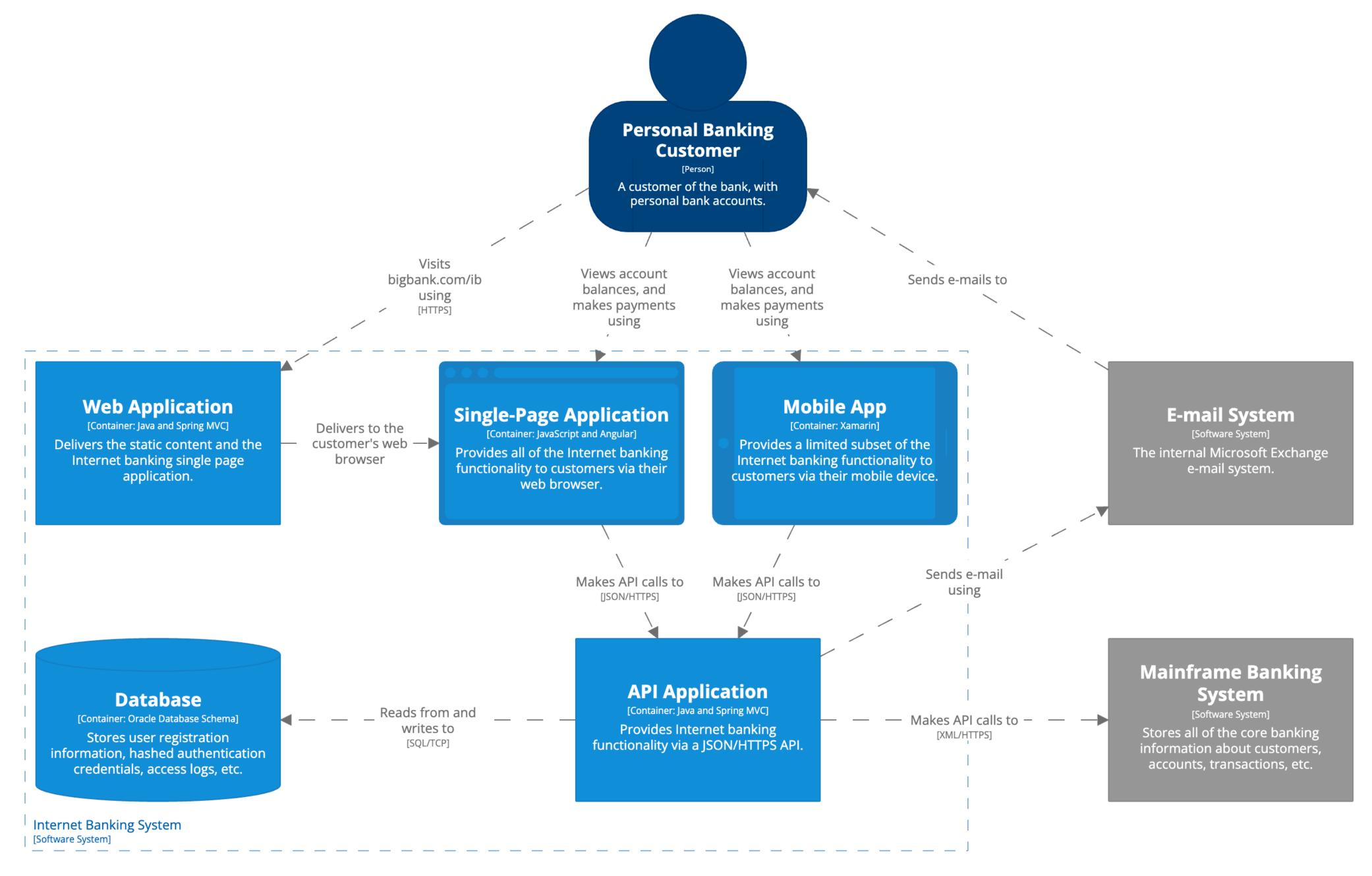
implemented at the

code level.

[C4 is] unclear because you forced to place a lot of text in each box

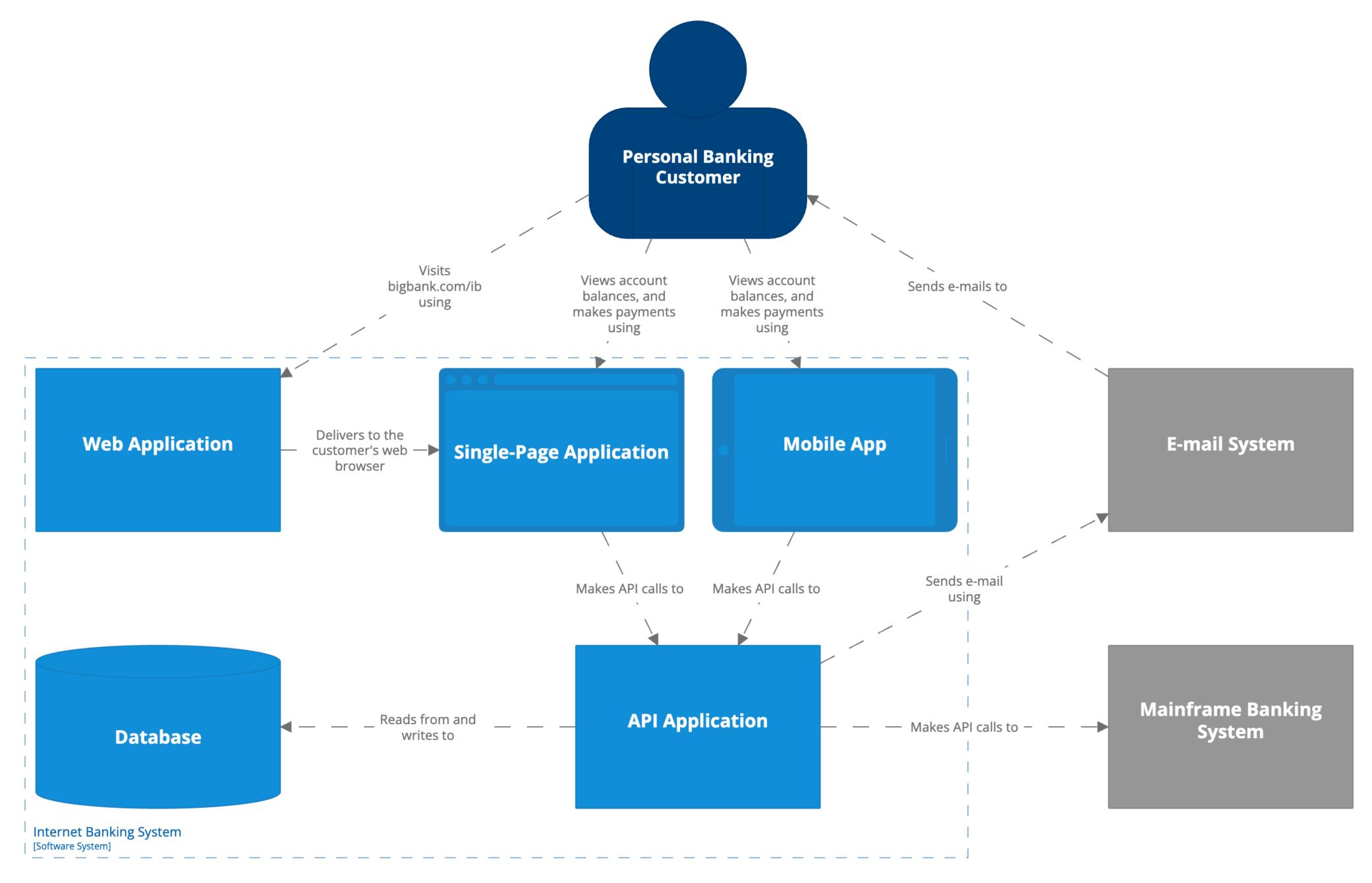






[Container] Internet Banking System

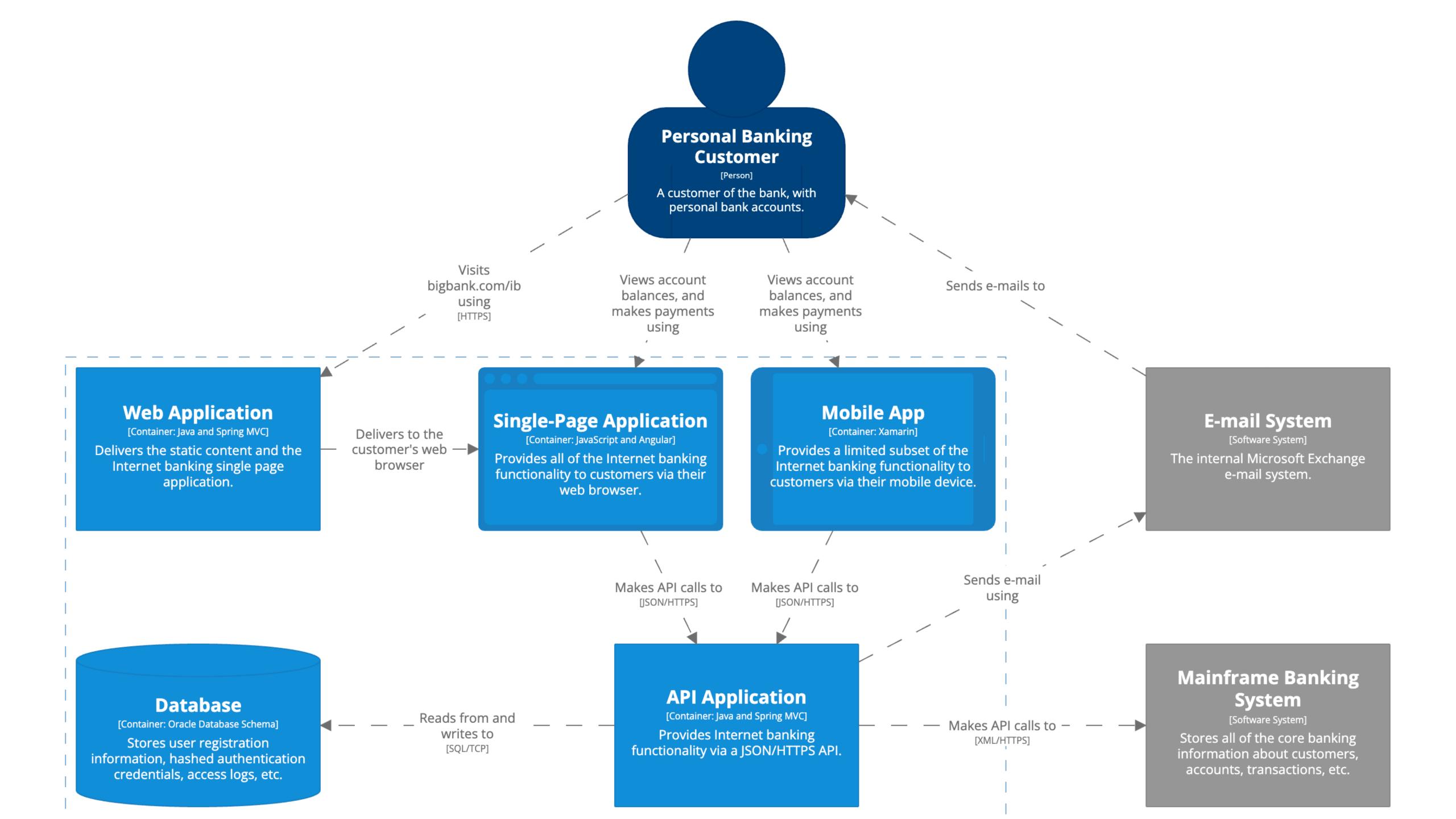
The container diagram for the Internet Banking System - diagram created with Structurizr. Wednesday, 22 March 2023 at 08:16 Greenwich Mean Time

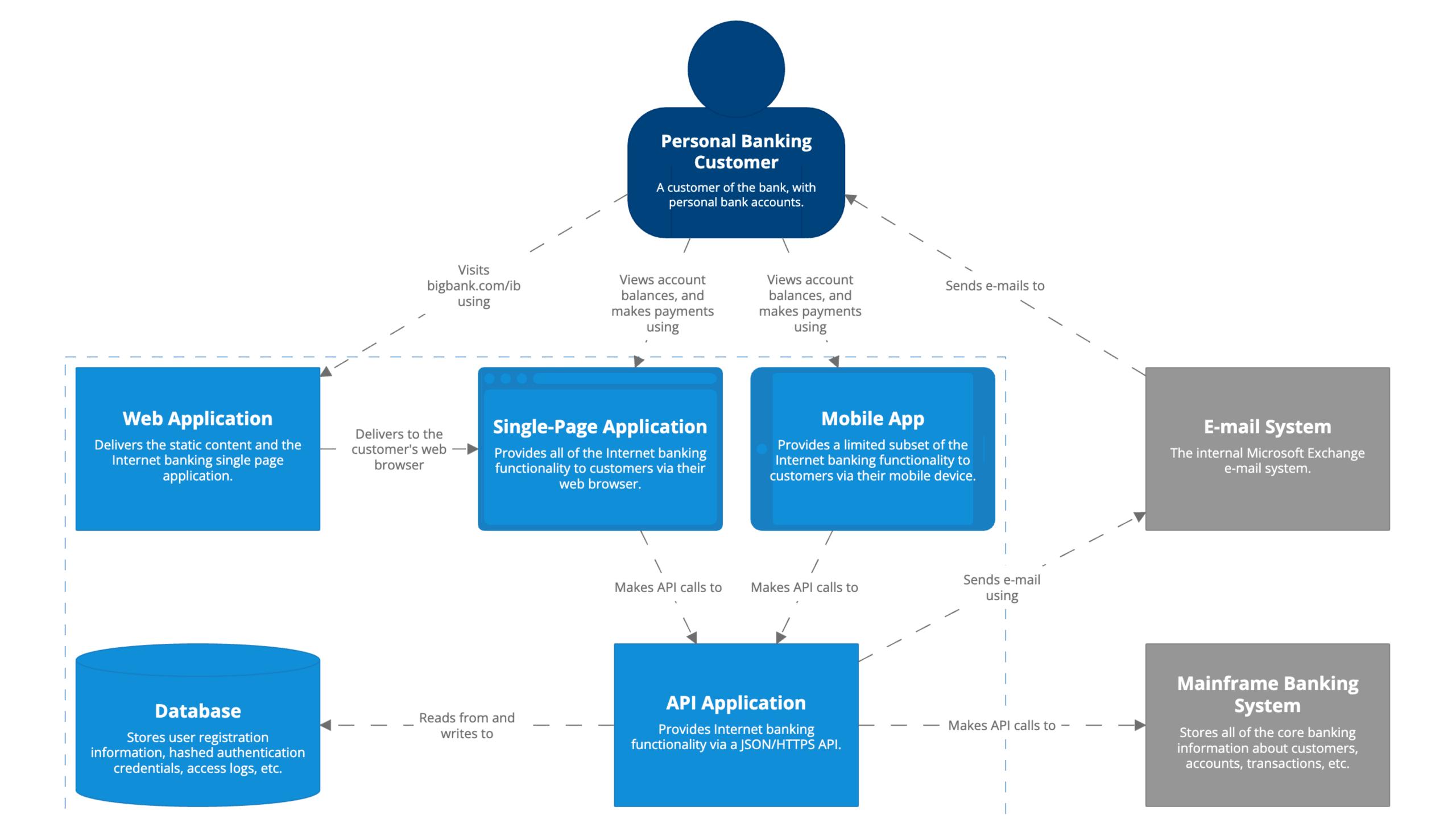


[Container] Internet Banking System

The container diagram for the Internet Banking System - diagram created with Structurizr. Wednesday, 22 March 2023 at 08:16 Greenwich Mean Time

We found the notation too cluttered, so removed the metadata





Viewpoints

C4 isn't good at showing decisions

Architecture diagrams show the **outcome** of the decision making process

Title These documents have names that are short noun phrases. For example, "ADR 1: Deployment on Ruby on Rails 3.0.10" or "ADR 9: LDAP for Multitenant Integration"

Context This section describes the forces at play, including technological, political, social, and project local. These forces are probably in tension, and should be called out as such. The language in this section is value-neutral. It is simply describing facts.

Decision This section describes our response to these forces. It is stated in full sentences, with active voice. "We will ..."

Status A decision may be "proposed" if the project stakeholders haven't agreed with it yet, or "accepted" once it is agreed. If a later ADR changes or reverses a decision, it may be marked as "deprecated" or "superseded" with a reference to its replacement.

Consequences This section describes the resulting context, after applying the decision. All consequences should be listed here, not just the "positive" ones. A particular decision may have positive, negative, and neutral consequences, but all of them affect the team and project in the future.

"Architecture Decision Record"

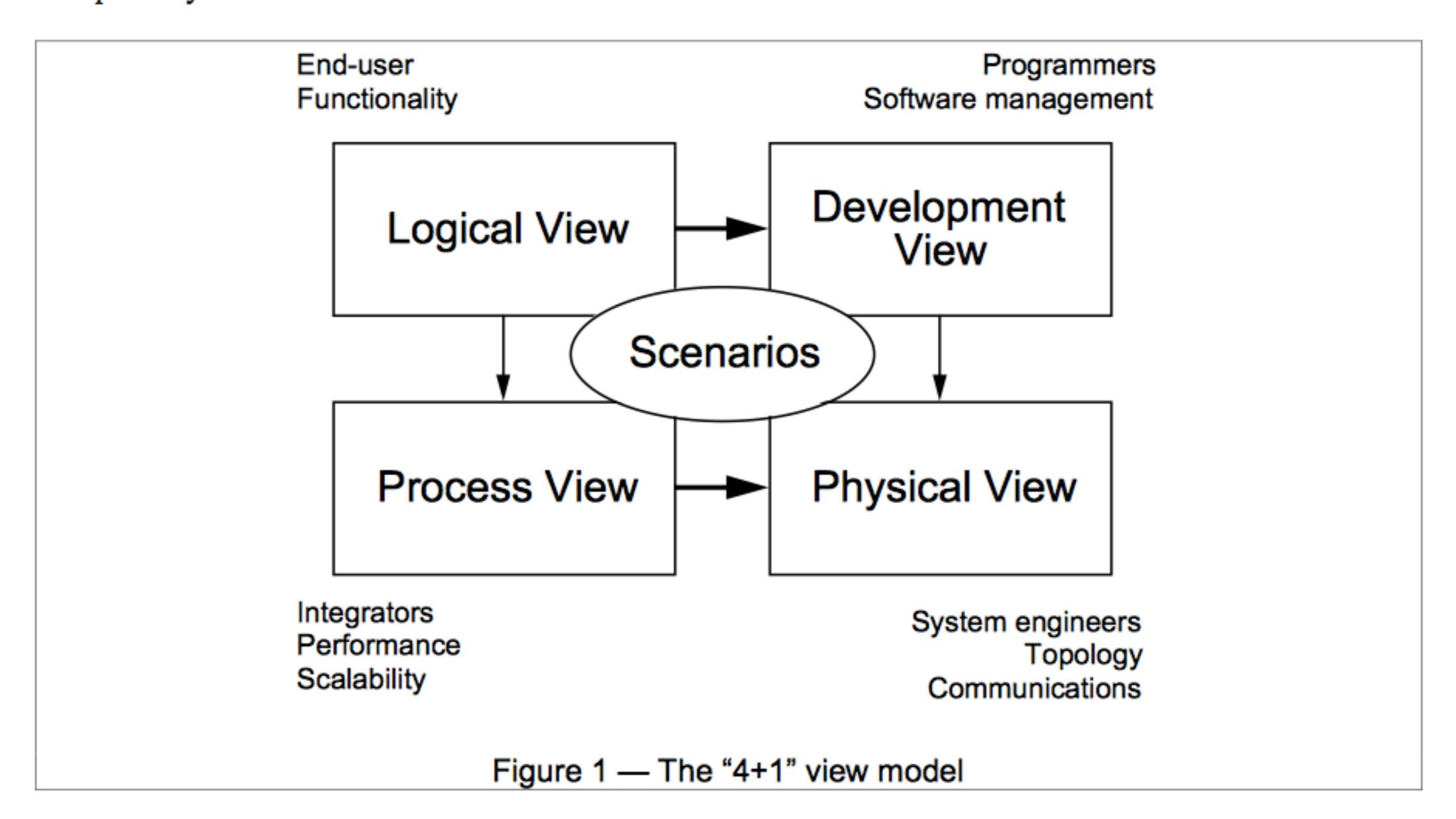
A short description of an architecturally significant decision

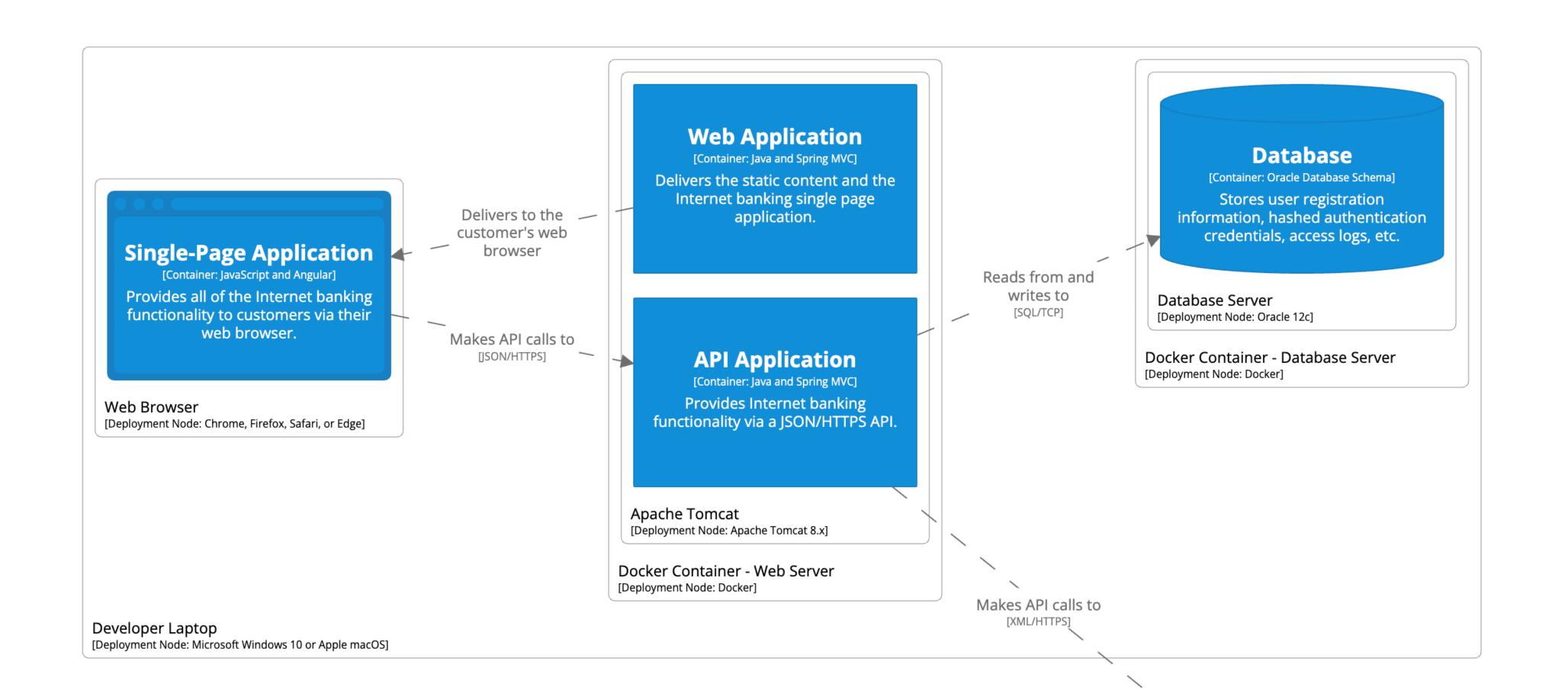
https://cognitect.com/blog/2011/11/15/documenting-architecture-decisions Michael Nygard

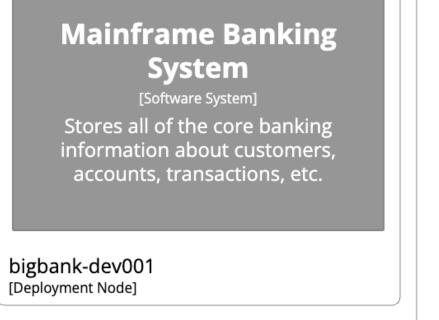
C4 model omits the deployment story

The C4 model was inspired by UML and the 4+1 model

The description of an architecture—the decisions made—can be organized around these four views, and then illustrated by a few selected *use cases*, or *scenarios* which become a fifth view. The architecture is in fact partially evolved from these scenarios as we will see later.



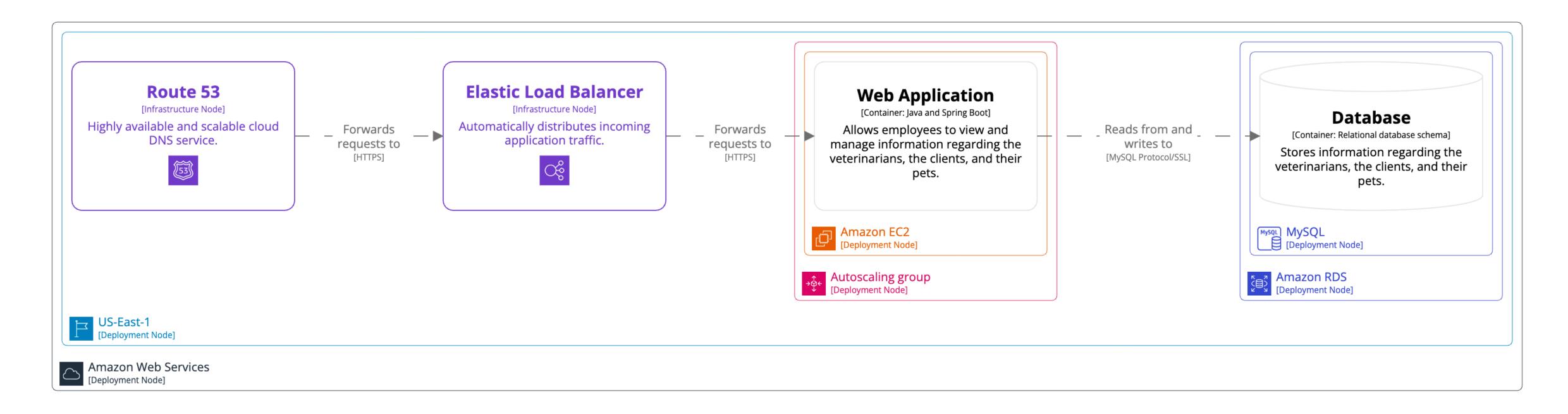




Big Bank plc [Deployment Node: Big Bank plc data center]

[Deployment] Internet Banking System - Development

An example development deployment scenario for the Internet Banking System - diagram created with Structurizr. Wednesday, 22 March 2023 at 08:16 Greenwich Mean Time

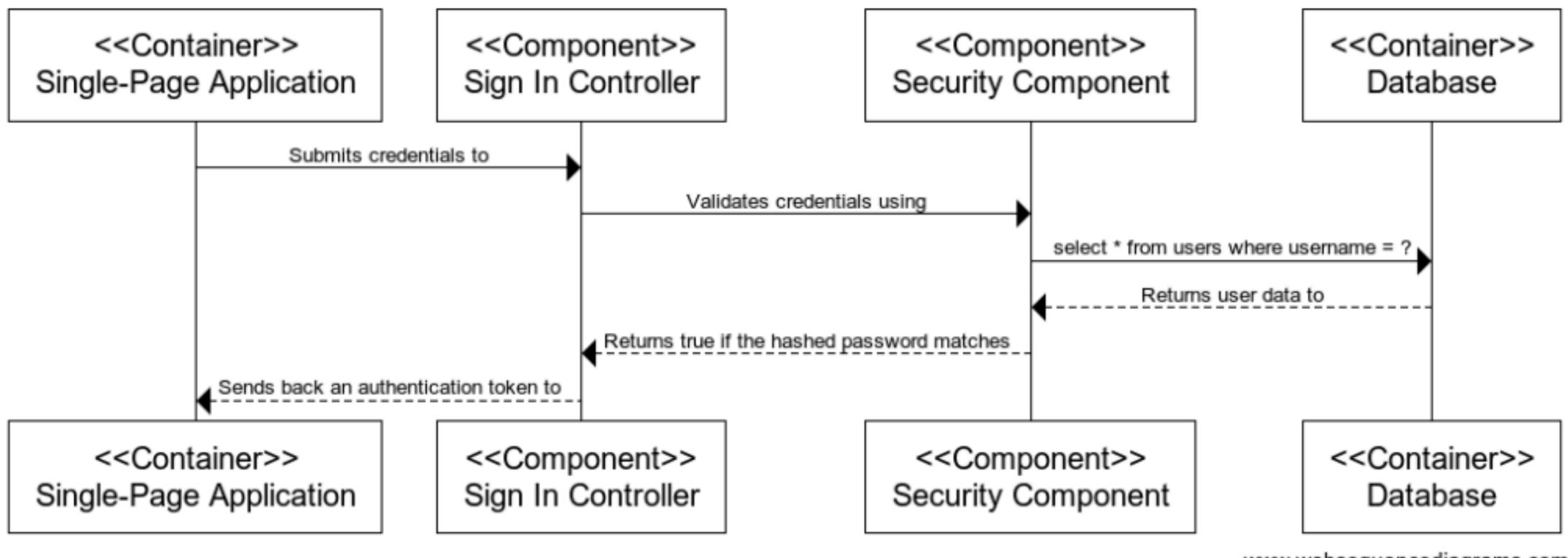


[Deployment] Spring PetClinic - Live

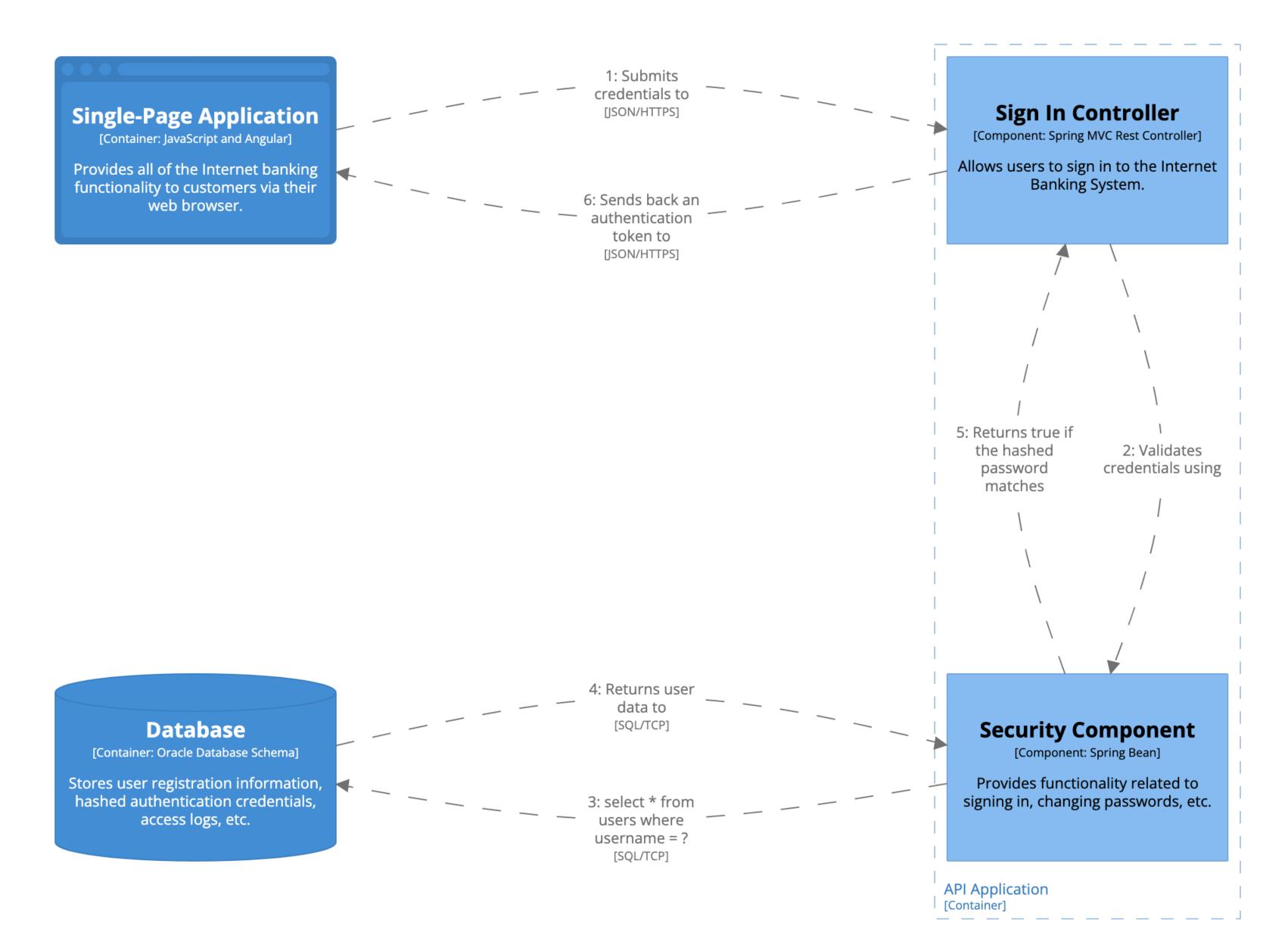
Sunday, 5 March 2023 at 09:41 Greenwich Mean Time

I personally prefer Event Modeling over C4. C4 has the major downside that it does not reflect the concept of time very well.

API Application - Dynamic - SignIn



www.websequencediagrams.com



[Dynamic] Internet Banking System - API Application

Summarises how the sign in feature works in the single-page application. Monday, 27 February 2023 at 15:36 Greenwich Mean Time

"C4 is too limiting"

The problem is that systems today have many different kinds of things. Servers, databases, virtualized containers, APIs, pipelines, repositories, packages, libraries, and (many, many) cloud resources are all real, concrete things that provide real value. Forcing them into one of C4's four levels of abstraction doesn't really accomplish much.

"Concrete Diagramming Models, a Lightweight Alternative to C4" www.ilograph.com/blog/posts/concrete-diagramming-models

A database is a database; debating whether it is also a Container or a Component just isn't worthwhile.

"Concrete Diagramming Models, a Lightweight Alternative to C4" www.ilograph.com/blog/posts/concrete-diagramming-models

What is a "database"?

microservices shouldn't share a database

We need to be more precise with our terminology

("system, container, or component?" is helpful here)

The power of the C4 model is the small set of named hierarchical abstractions that help teams reason about their codebases in a structured and more precise way



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Navigating Software Architecture at Scale: Insights from Decathlon's **Architecture Process**





JUL 24, 2024 • 6 MIN READ

by



Eran Stiller

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Principal Software Architect

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Raphaël Tahar, staff engineer at Decathlon, recently published his insights from coleading an architecture process at scale. In a 4-part blog post series, Tahar depicts how, by combining methodologies like architecture committees, the C4 model, and System Thinking and emphasizing the importance of ADRs and centralized documentation, Decathlon ensures its teams are well-equipped to make informed, strategic decisions.

He is part of a group supporting over 120 engineers across 23 feature teams comprising one domain out of 1500+ engineers globally at Decathlon. Supporting this scale of developers is no small feat and involves providing support with designing new systems, optimizing existing ones, and ensuring alignment with global guidelines. To tackle this, Decathlon established an architecture committee, which plays a crucial role in guiding teams through the intricate decision-making process.

Tahar explains the need for an architecture committee via the Garbage Can Model. Developed in the 1970s, this model describes organizational decision-making as a chaotic process where problems, solutions, and decision-makers exist in separate streams. These streams interact in unpredictable ways, much like items in a garbage can, leading to decision opportunities that emerge from this interplay.

However, according to Tahar, this "garbage can flow" is missing three items: decision alternatives, consequences, and consequences vs objectives.



Organizations must ensure that those 3 points are covered; if they aren't, the

RELATED CONTENT

Getting Technical Decision Buy-In **Using the Analytic Hierarchy Process**



Accelerating Technical Decision-Making by Empowering ICs with **Engineering Strategy**



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MAR 19, 2024

How to Deal with Complexity in Product Development by Using Solution-Focused Coaching



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AWS Launches Open-Source Agent for AWS Secrets Manager

JUL 25, 2024

InfoQ: What have been the most significant impacts of implementing the C4 model at Decathlon, and how has it helped manage complexity and improve system understanding among engineers?

66

Tahar: The C4 model is inherently declarative. It requires teams to address and synchronize their mental models of the code, components, containers, and even the context of their applications. This led to valuable discussions where knowledge was shared, and beliefs were reconsidered.

It also assisted leadership teams in understanding the interdependencies among teams and external systems. In other words, it helped identify risks and visualize the landscape for organizational optimizations.

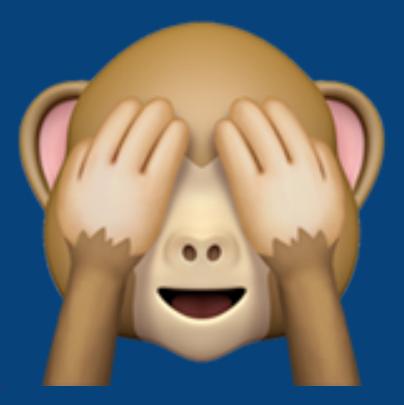
Lastly, as the saying goes, "A picture is worth a thousand words." The C4 model makes cross-team and cross-domain discussions much more seamless by standardizing the capture and sharing of contexts.

Inspired by C4 Model and Structurizr DSL, but with some flexibility. You define your own notation, custom element types and **any number of nested levels in the architecture model**. Perfectly tailored to your needs.

```
model {
  service service {
    component backend1 {
      component api
    component backend2 {
      component api
      component graphql
```

What is a "component"?

```
model{
    c1 = component "c1"{
        c2 = component "c2"{
            c4 = component "c4"
            c5 = component "c5"
            c3 -> c4
            c4 -> c5
    c3 = component "c3"
views{
   view of c1{
        include *
    view of c2{
        include *
```



Forcing them into one of C4's four levels of abstraction doesn't really accomplish much.

Ad hoc abstractions

Most "boxes and arrows" diagrams

Defined abstractions

C4 model

Inspired by C4 Model and Structurizr DSL, but with some flexibility. You define your own notation, custom element types and any number of nested levels in the architecture model.

Ad hoc abstractions

Most "boxes and arrows" diagrams

Defined abstractions

C4 model

Flexible abstractions

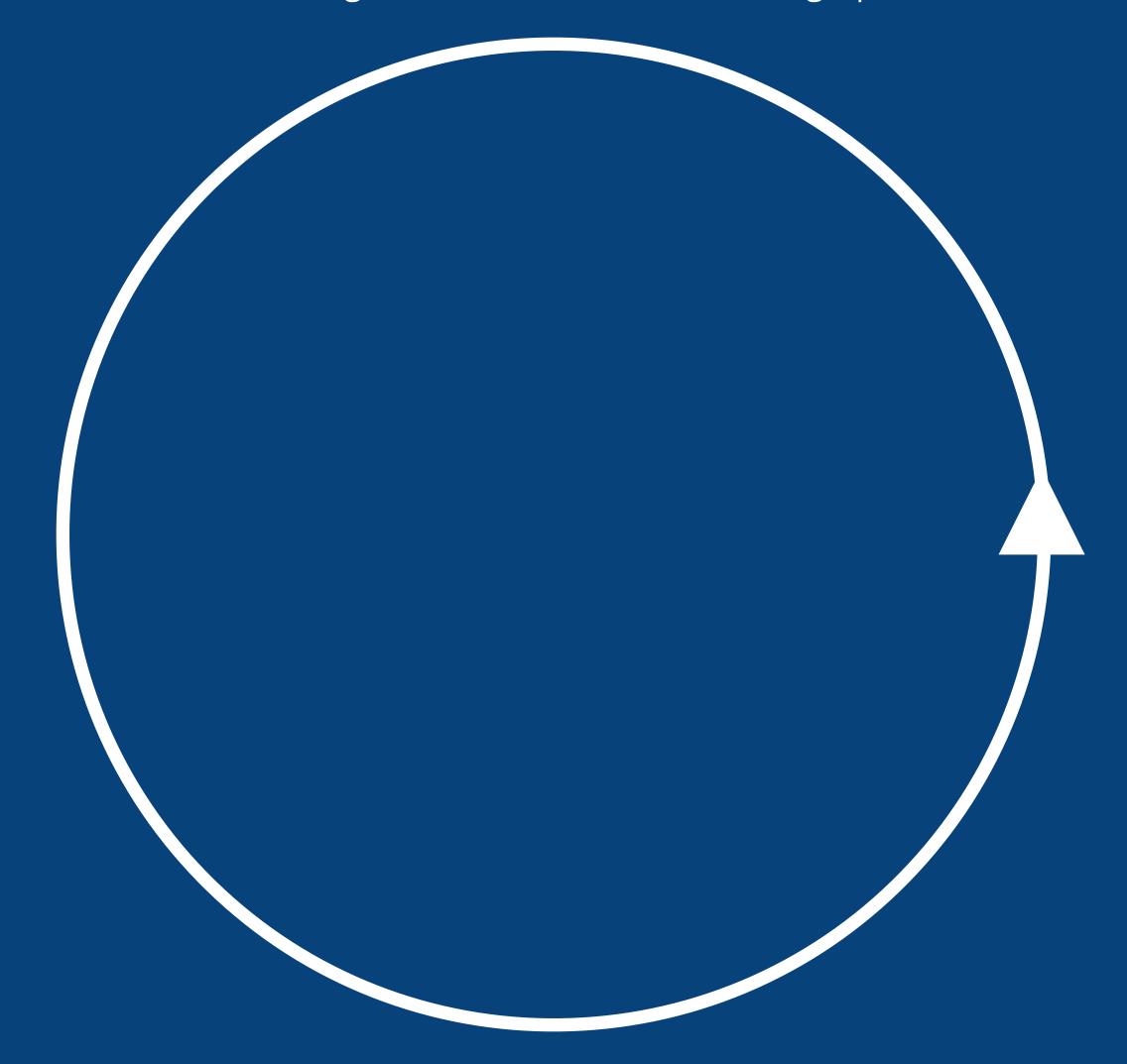
Ilograph, LikeC4, etc

Ad hoc abstractions

Flexible abstractions

Most "boxes and arrows" diagrams

llograph, LikeC4, etc



Defined abstractions

C4 model

Abstraction

VS

organisation

What are your thoughts on modelling additional abstractions?

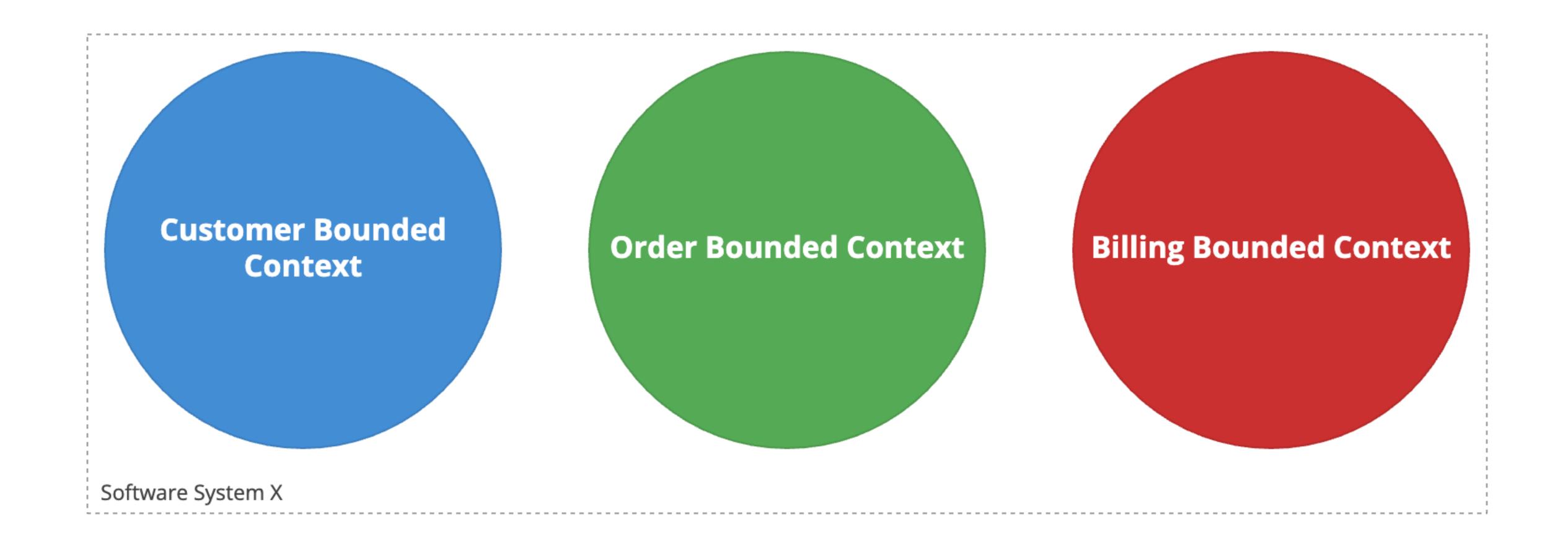
Customer Subsystem

Order Subsystem

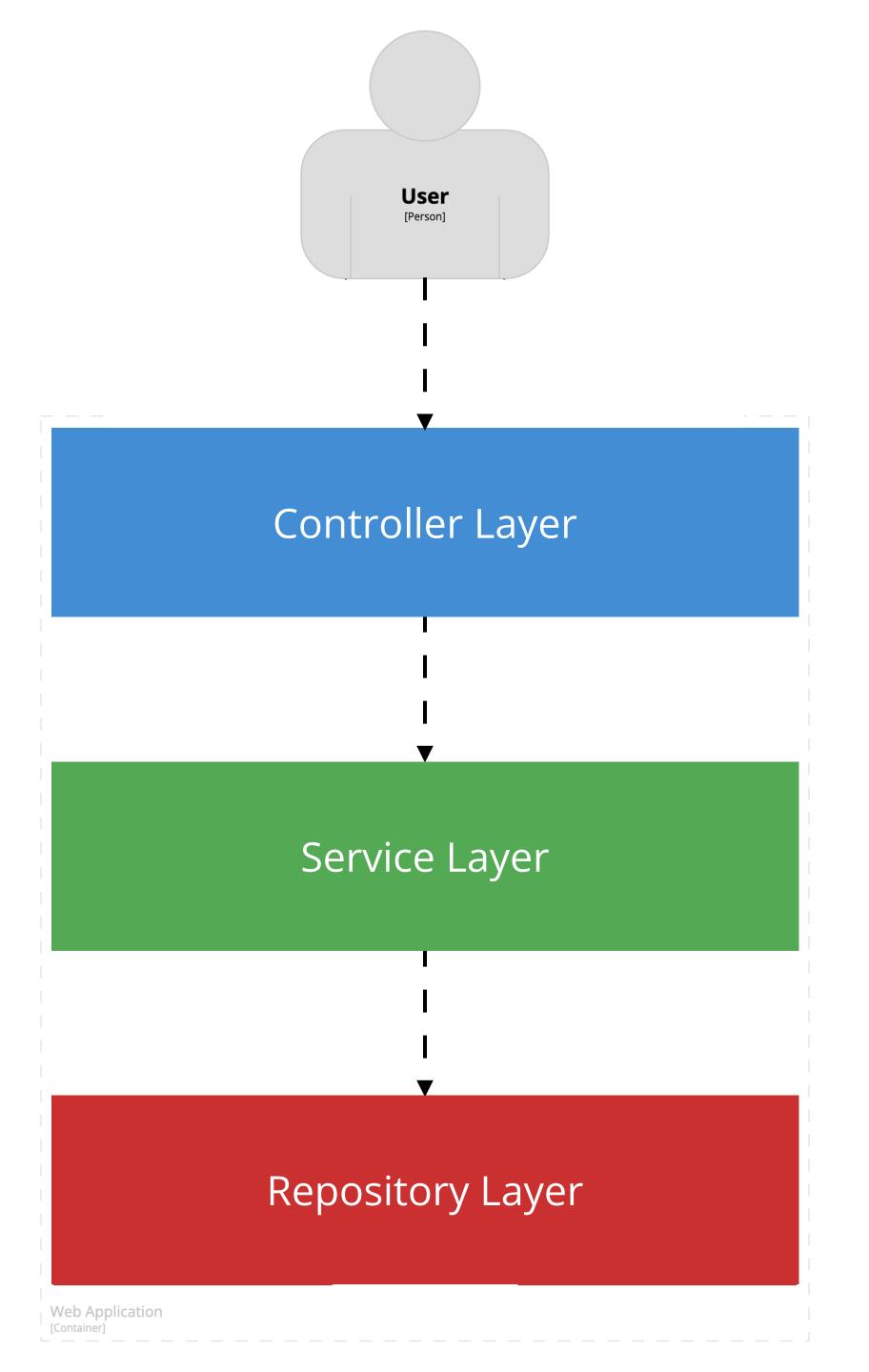
Billing Subsystem

Software System X



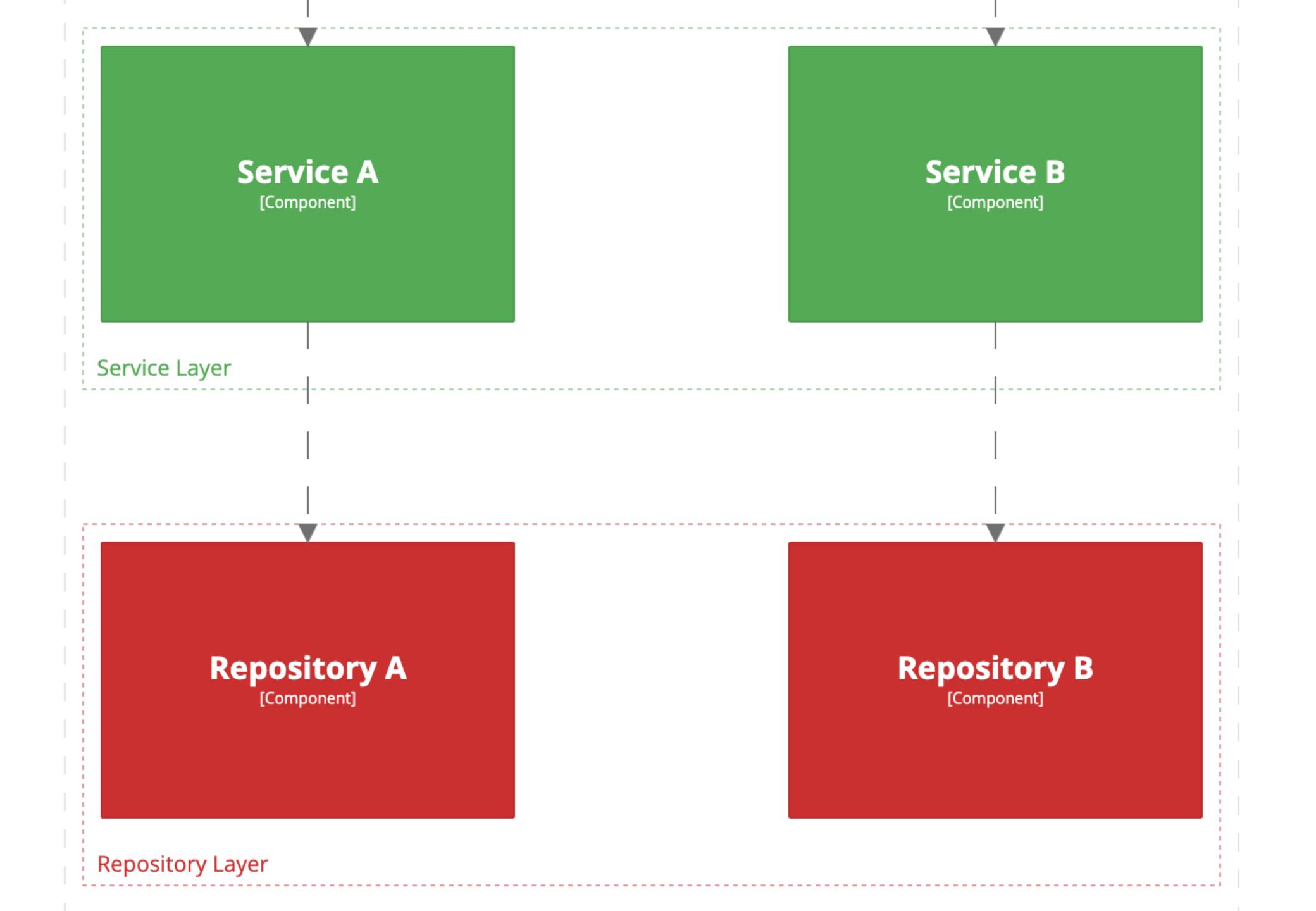




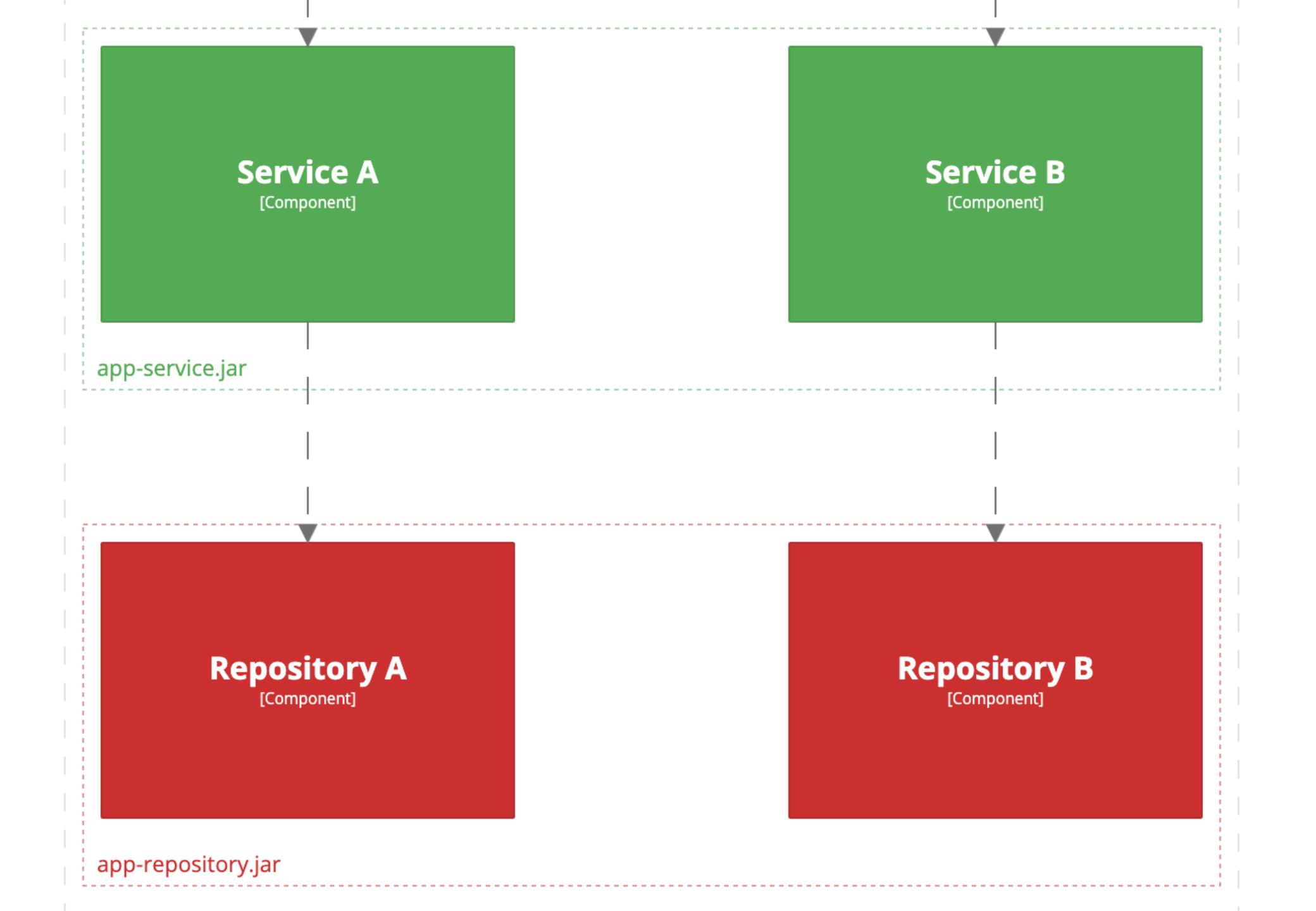




Some of these concepts might be better thought of as **organisational constructs** rather than abstractions

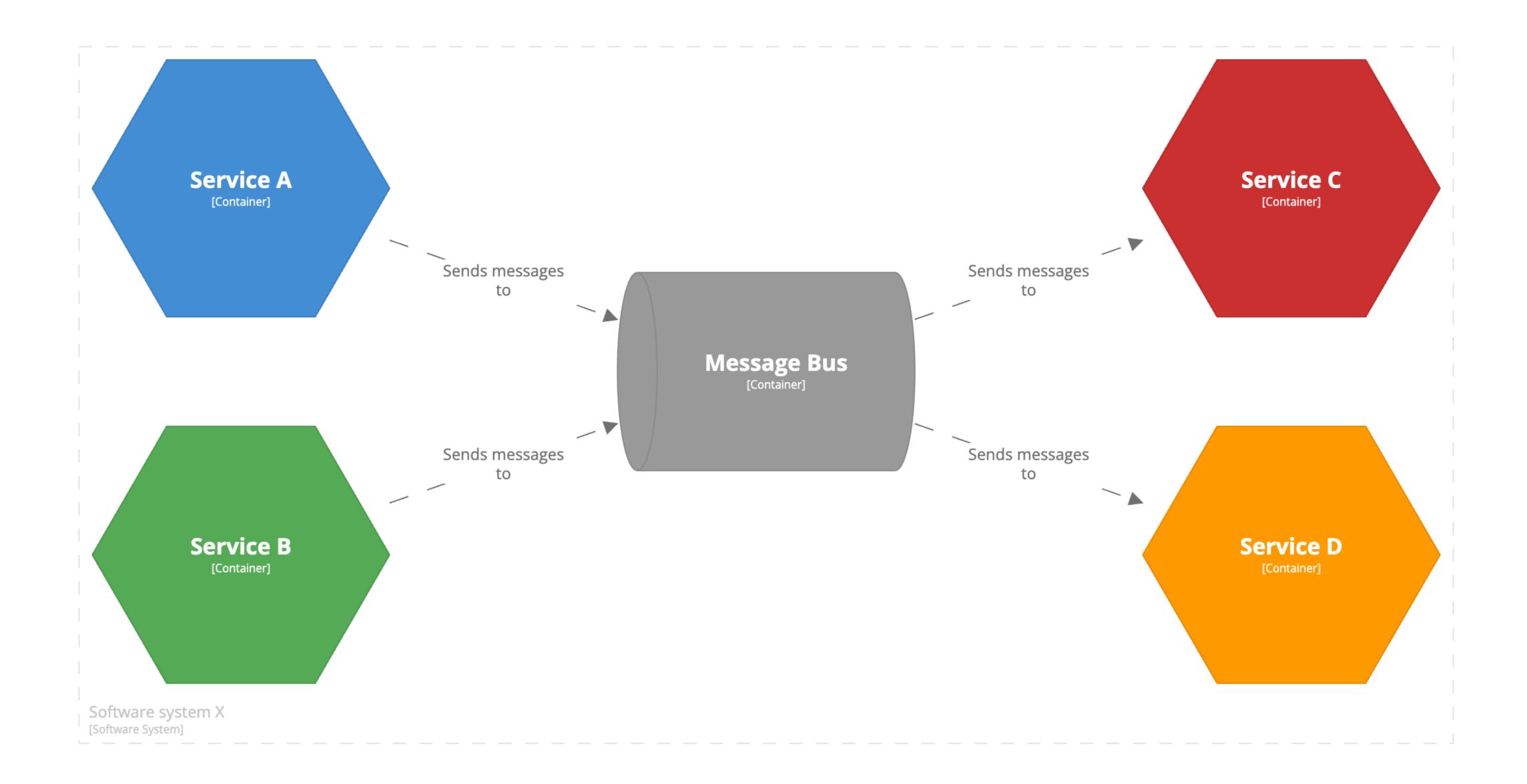




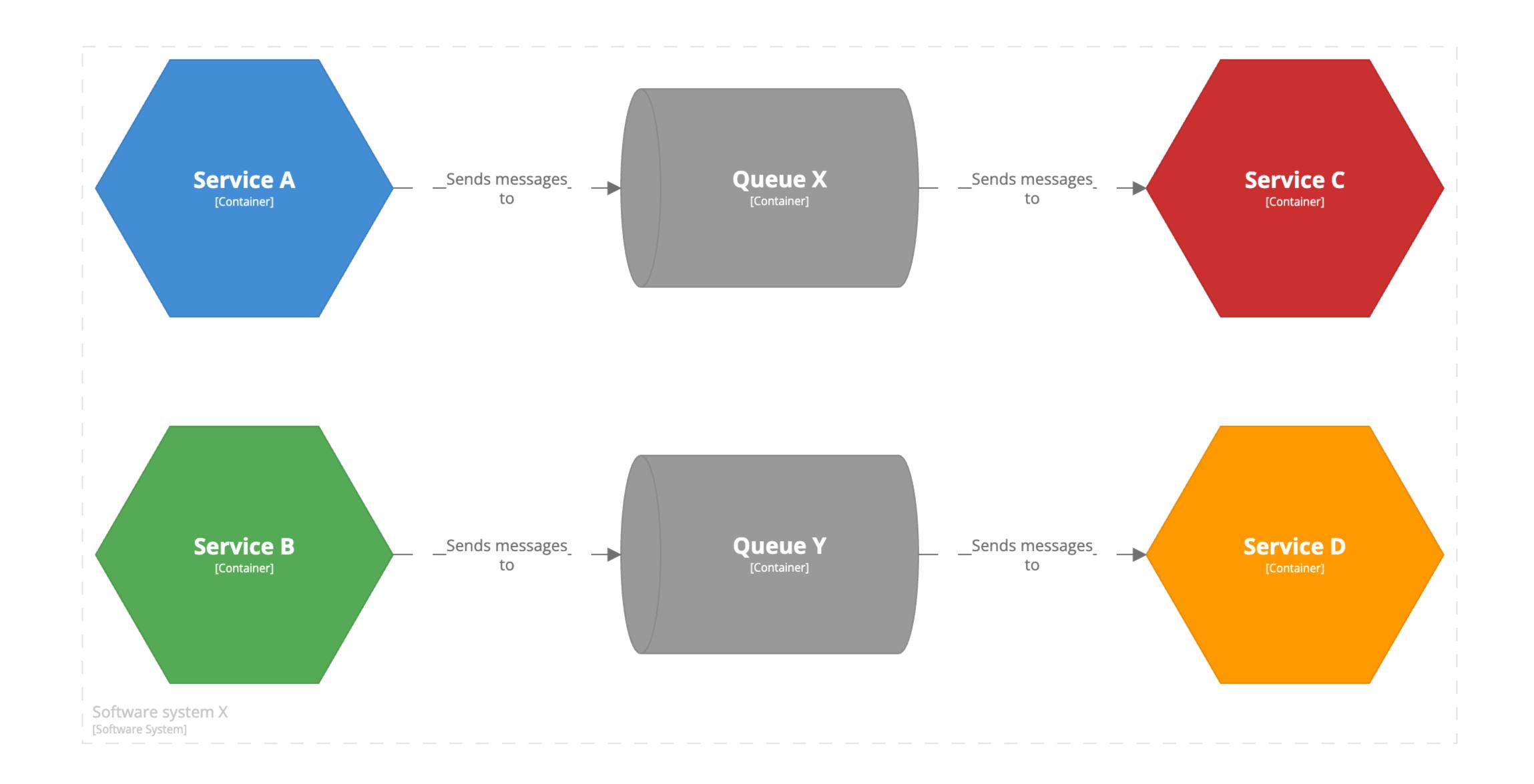




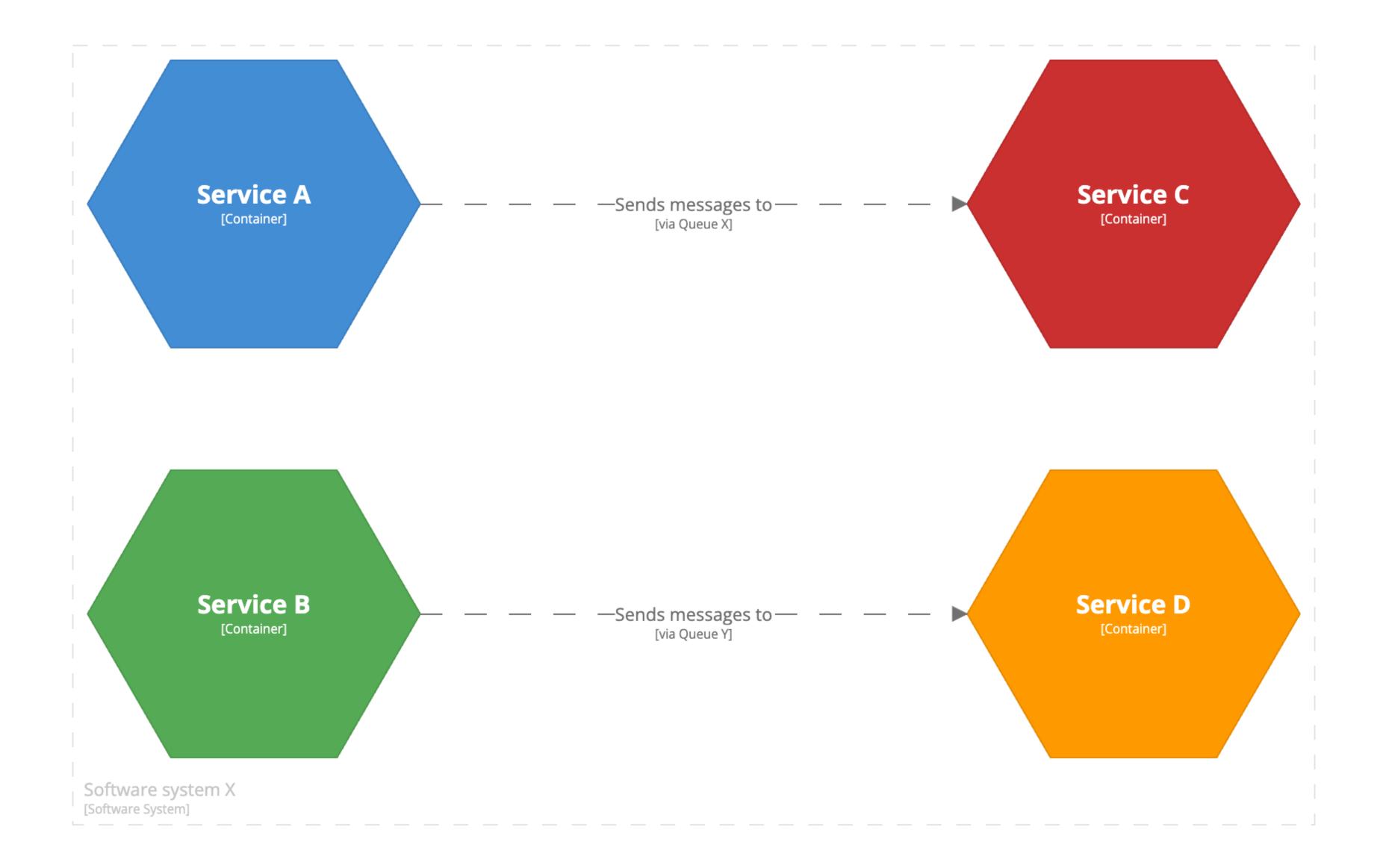
Message-driven architectures

















Shared libraries

Customer Component

[Component]

Application 1 [Container]

Writes logs using

Logging Component

[Component: Java]

A wrapper around the log4j framework

Writes logs using

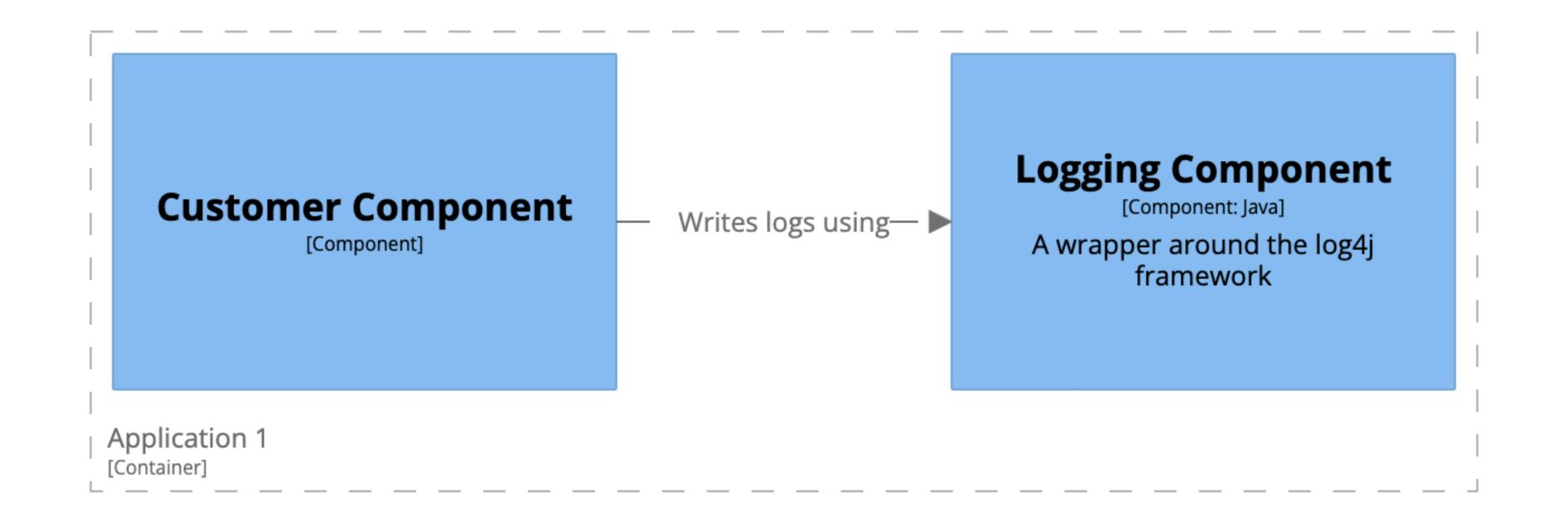
shared-library.jar
[Container]

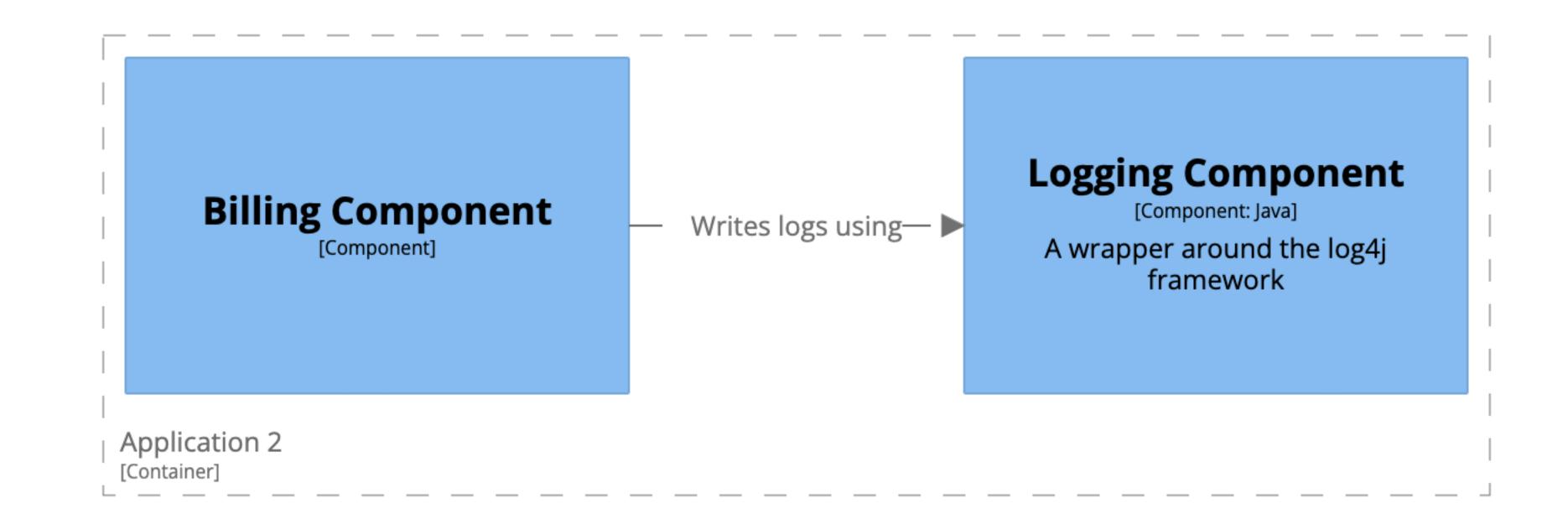
Billing Component

[Component]

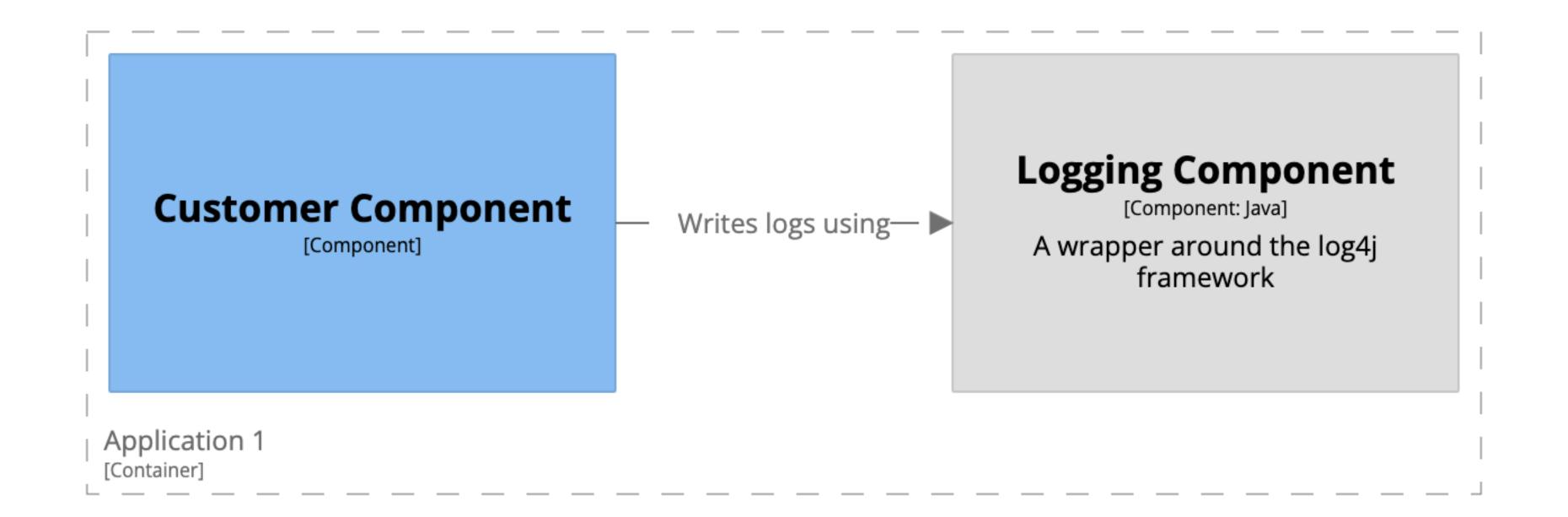
Application 2 [Container]

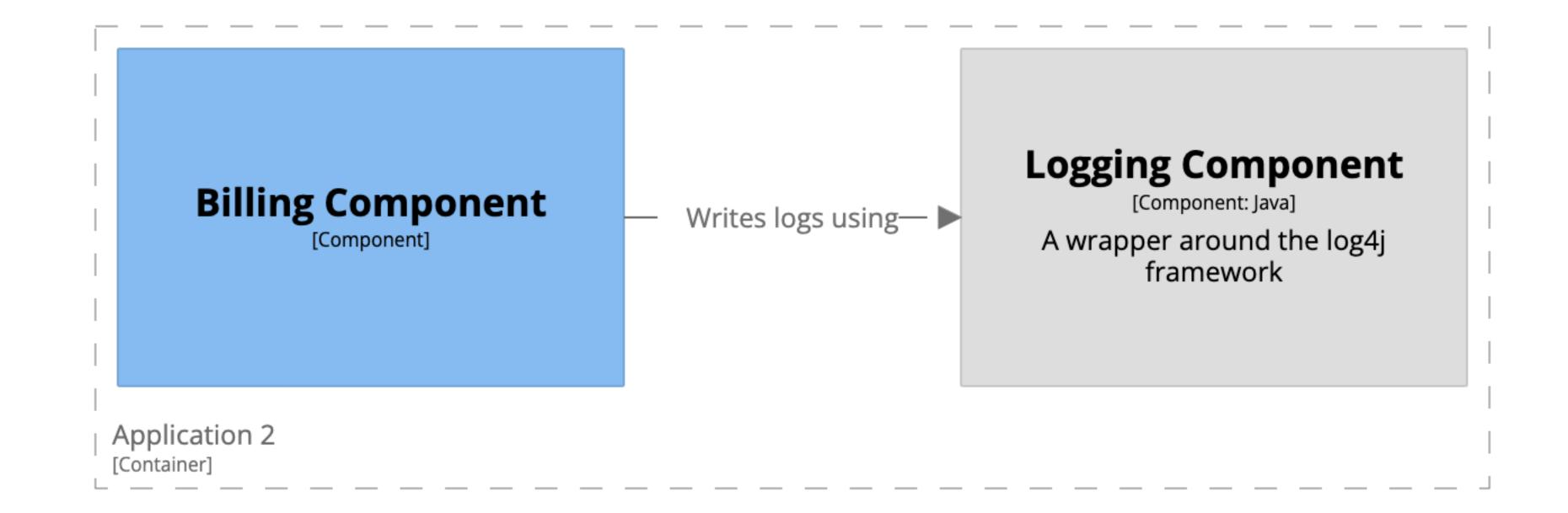




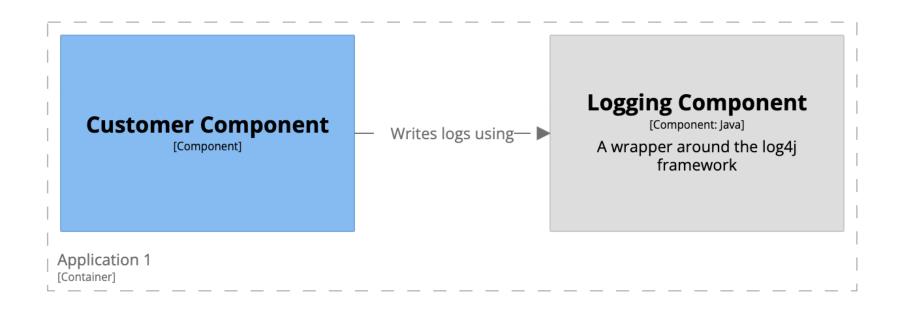


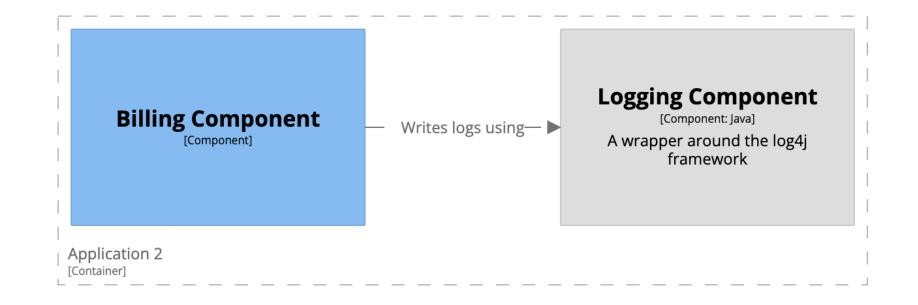








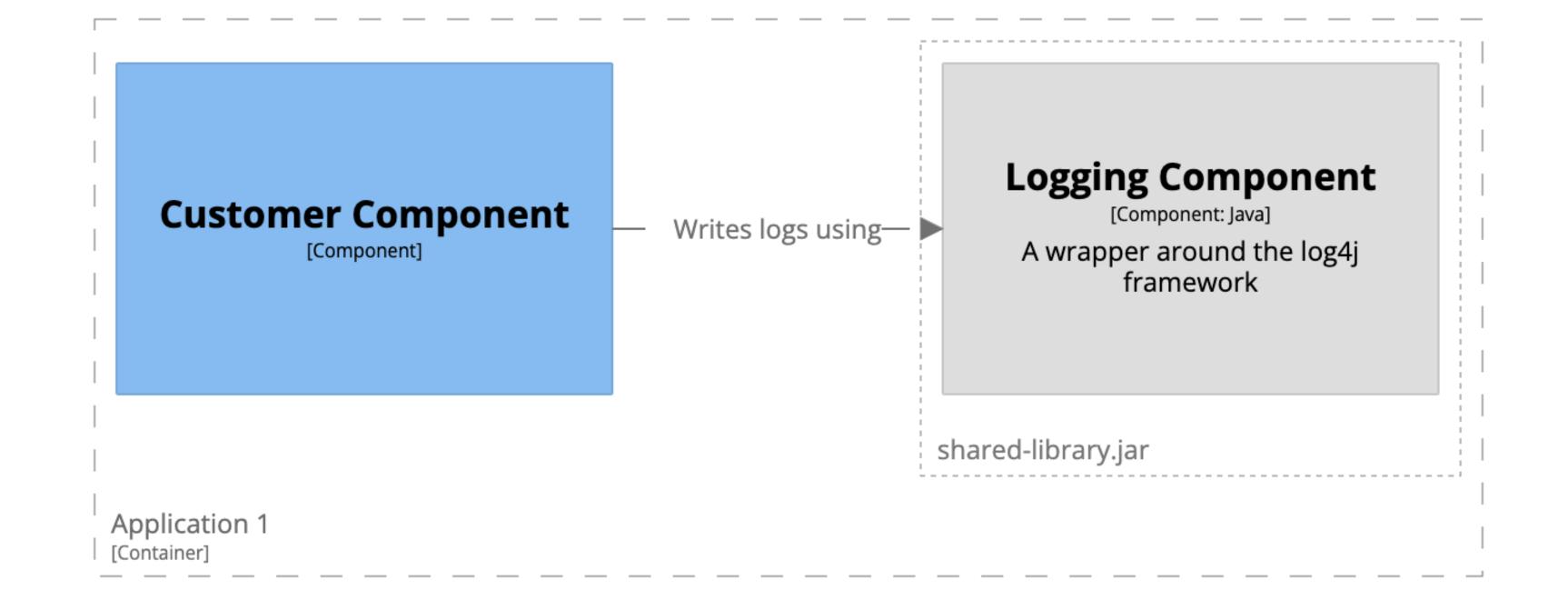


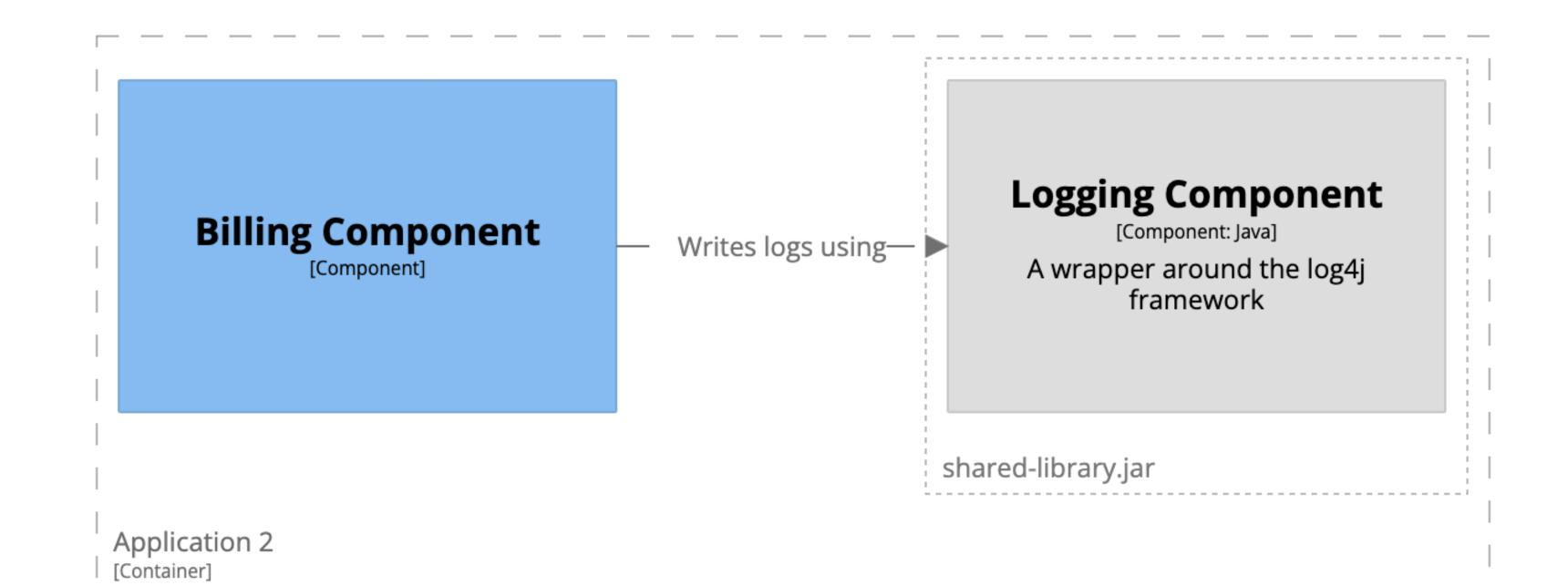


Component

Component, Shared Component

Relationship







Microservices

C4 is more suited to monolithic architectures, and doesn't support distributed architectures well

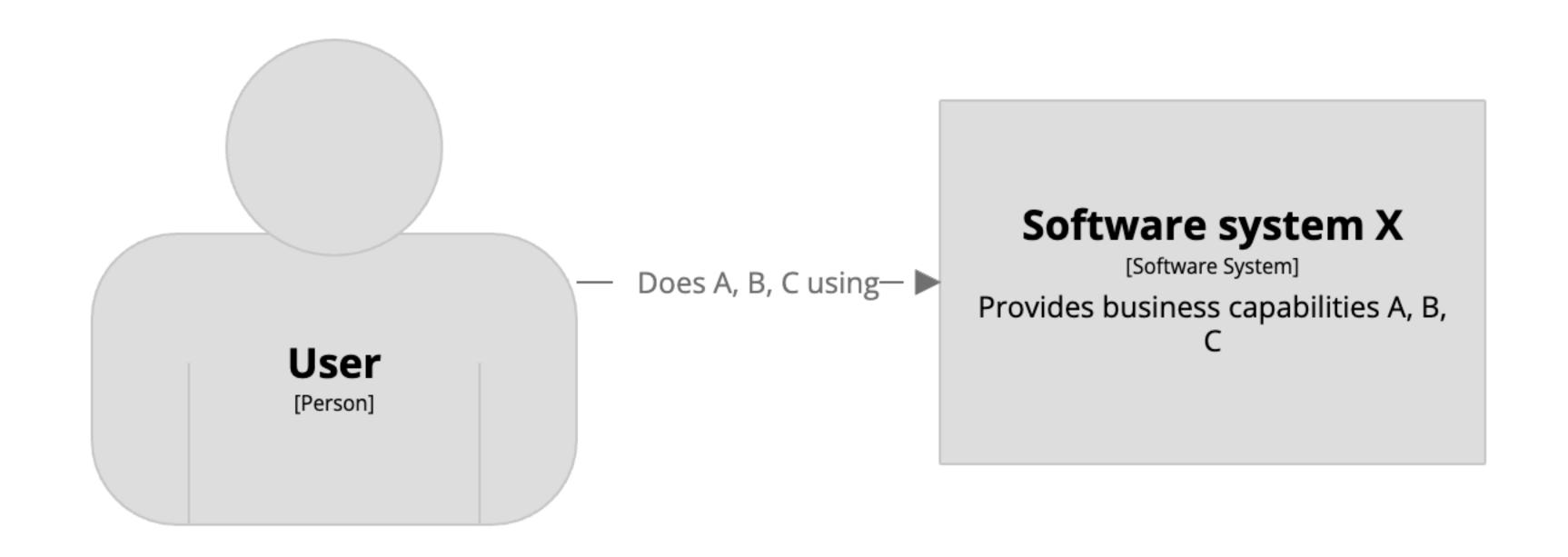
We're modelling microservices as containers, with APIs and database schemas as components

A microservice should be modelled as one of the following:

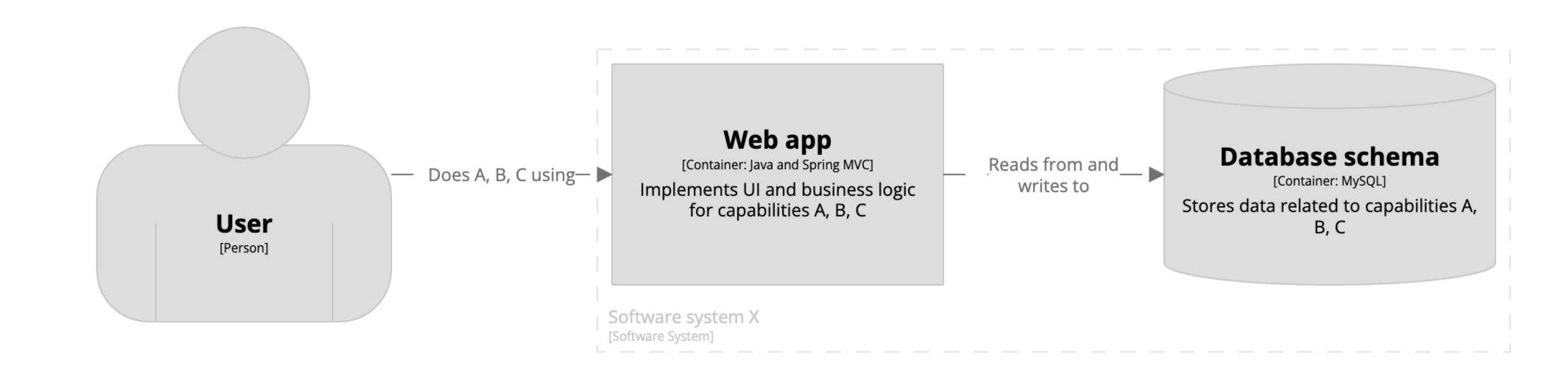
- 1. A software system
 - 2. A container
- 3. A group of containers

Stage 1: Line of the state of t

(monolithic architecture)



[System Context] Software system X



[Container] Software system X

What is a "microservice"?







Microservices

a definition of this new architectural term

The term "Microservice Architecture" has sprung up over the last few years to describe a particular way of designing software applications as suites of independently deployable services. While there is no precise definition of this architectural style, there are certain common characteristics around organization around business capability, automated deployment, intelligence in the endpoints, and decentralized control of languages and data.

25 March 2014



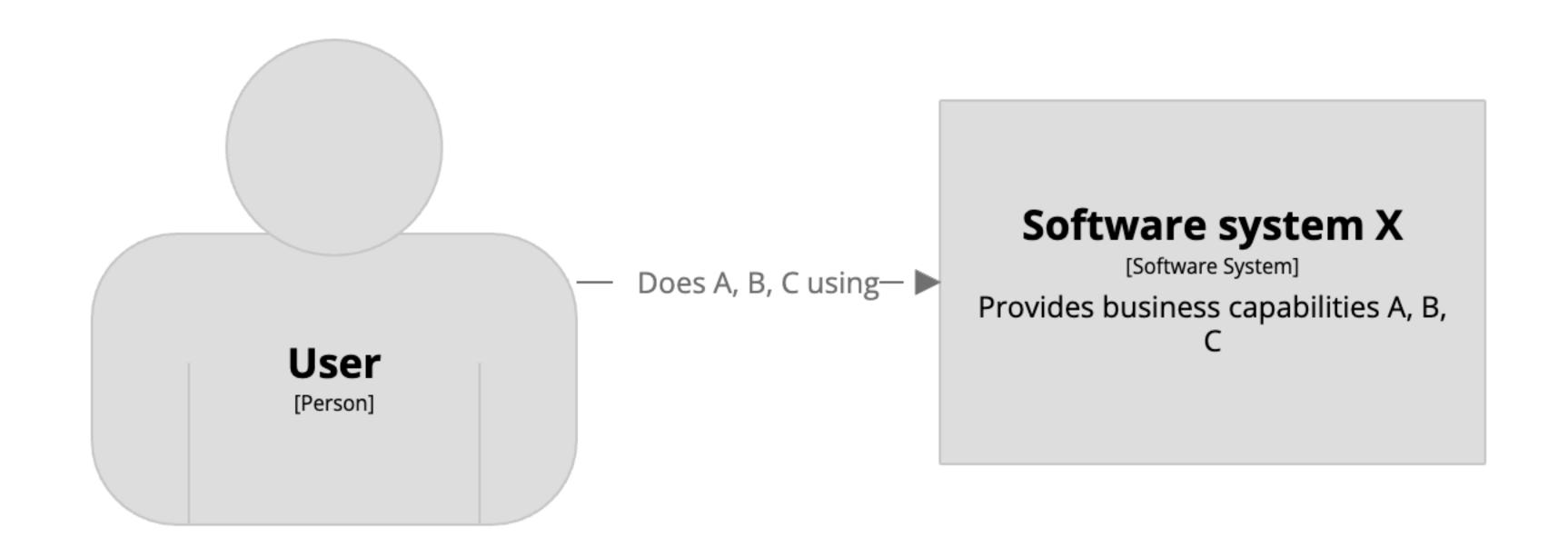
James Lewis

James Lewis is a Principal Consultant at Thoughtworks and member of the Technology Advisory Board. James' interest in building applications out of small collaborating services

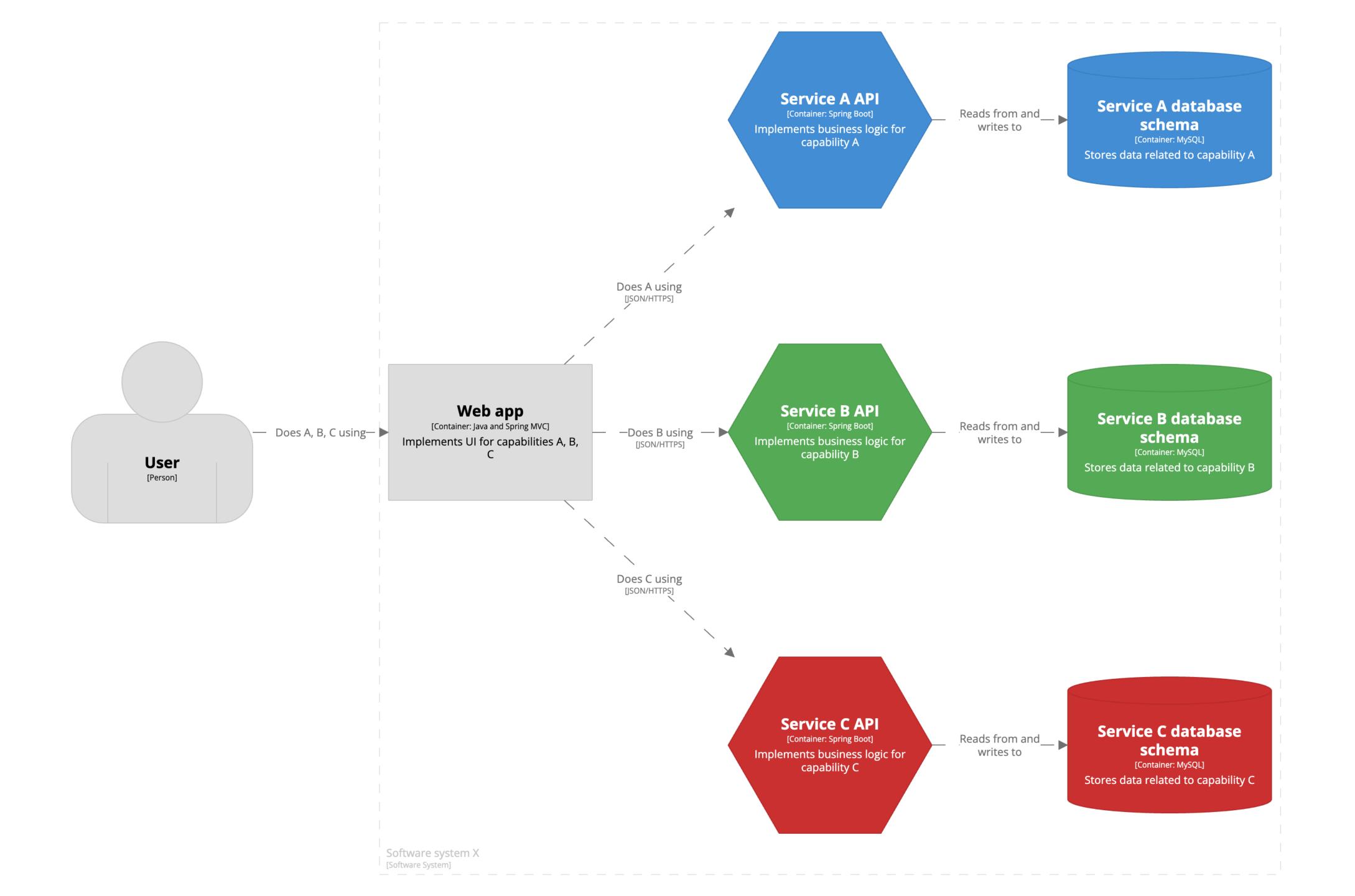
CONTENTS

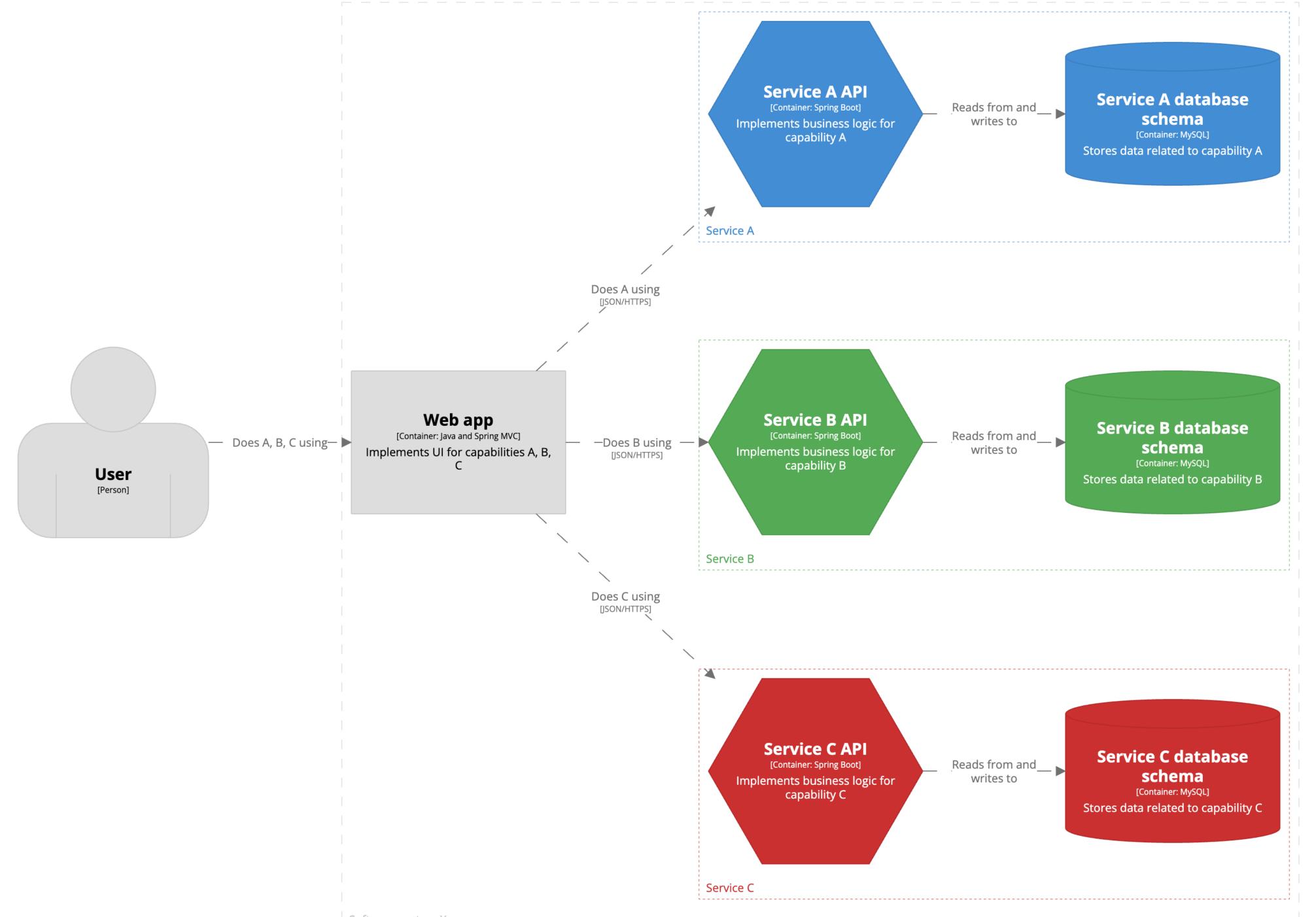
Characteristics of a Microservice Architecture Componentization via Services Organized around Business Capabilities Products not Projects Smart endpoints and dumb pipes **Decentralized Governance Decentralized Data Management**

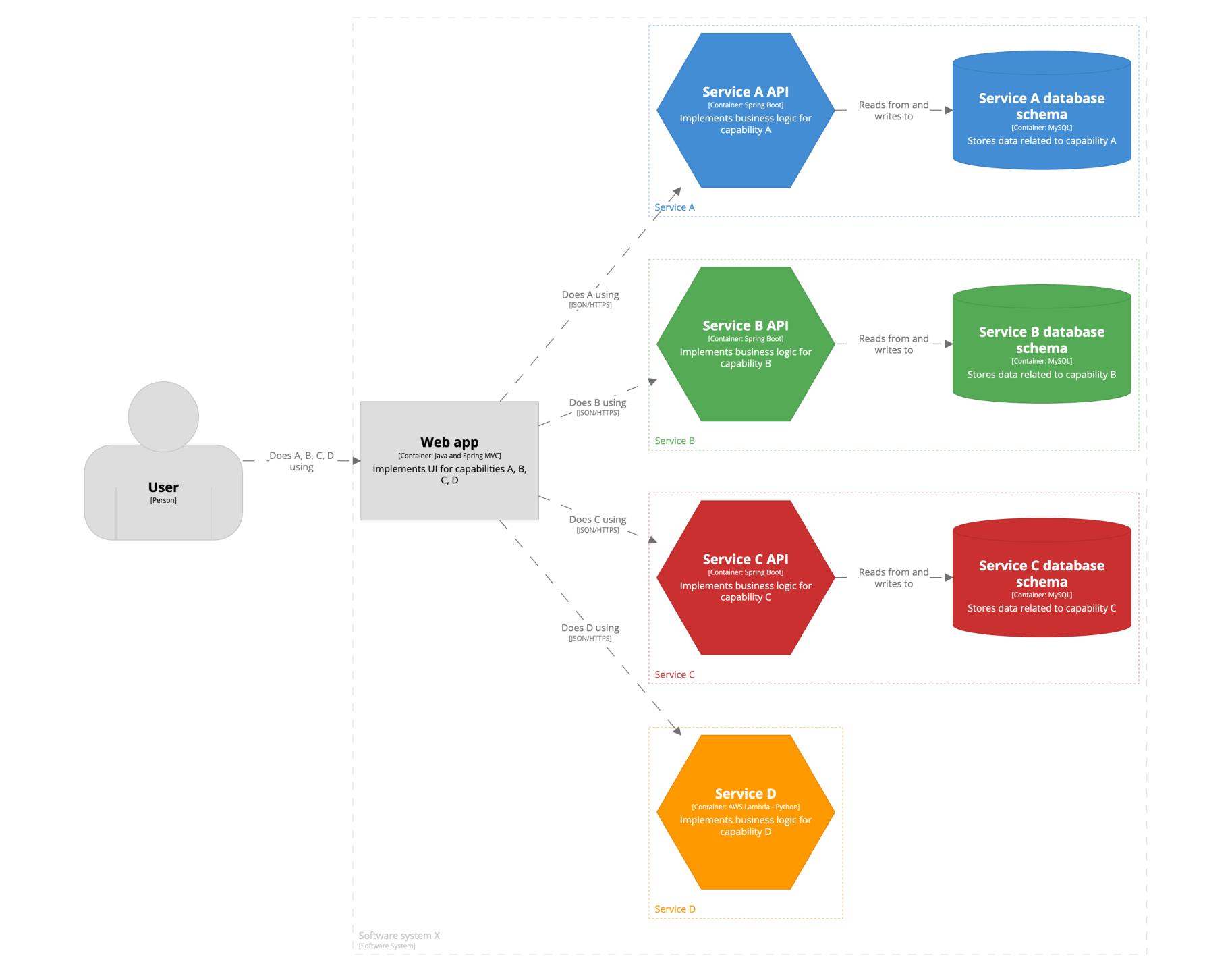
In short, the microservice architectural style [1] is an approach to developing a single software system as a suite of small services, each running in its own process and communicating with lightweight mechanisms, often an HTTP resource API. These services are built around business capabilities and independently deployable by fully automated deployment machinery. There is a bare minimum of centralized management of these services, which may be written in different programming languages and use different data storage technologies.



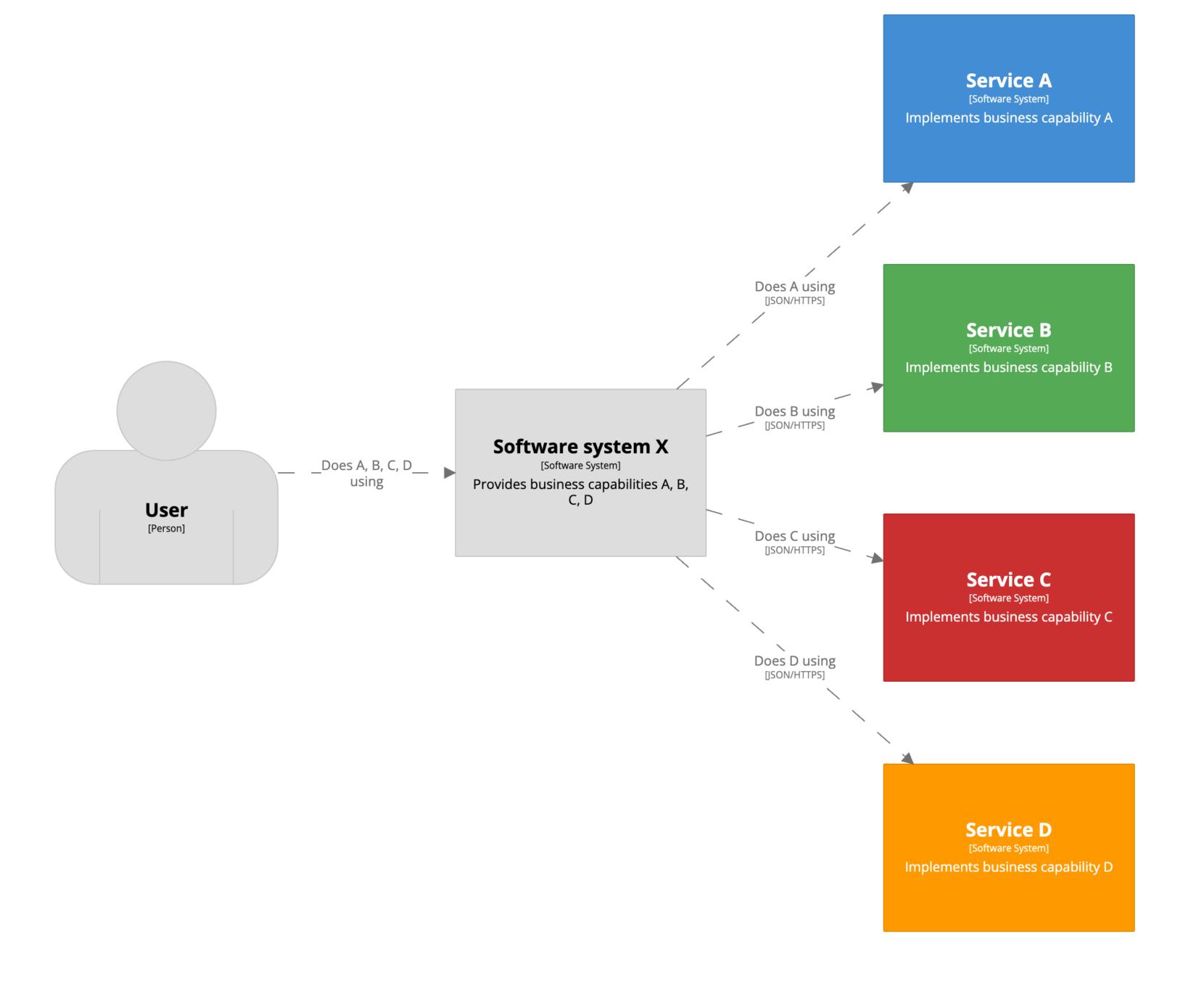
[System Context] Software system X

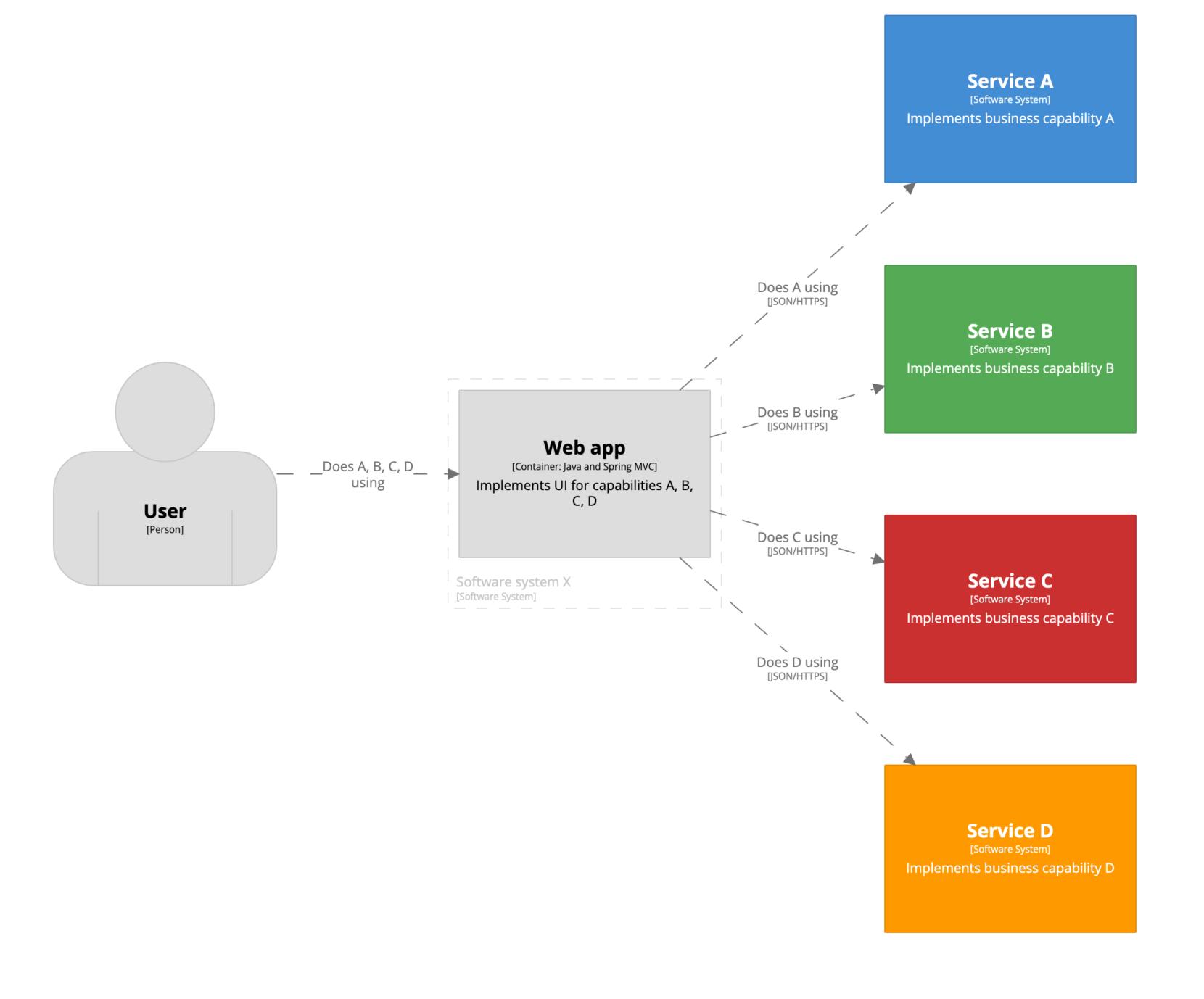


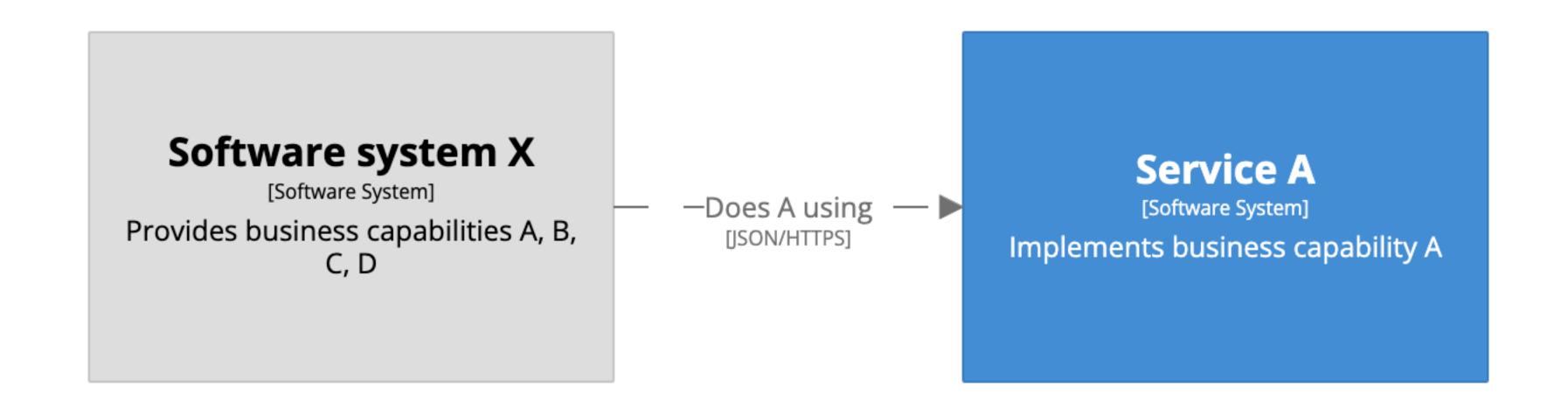




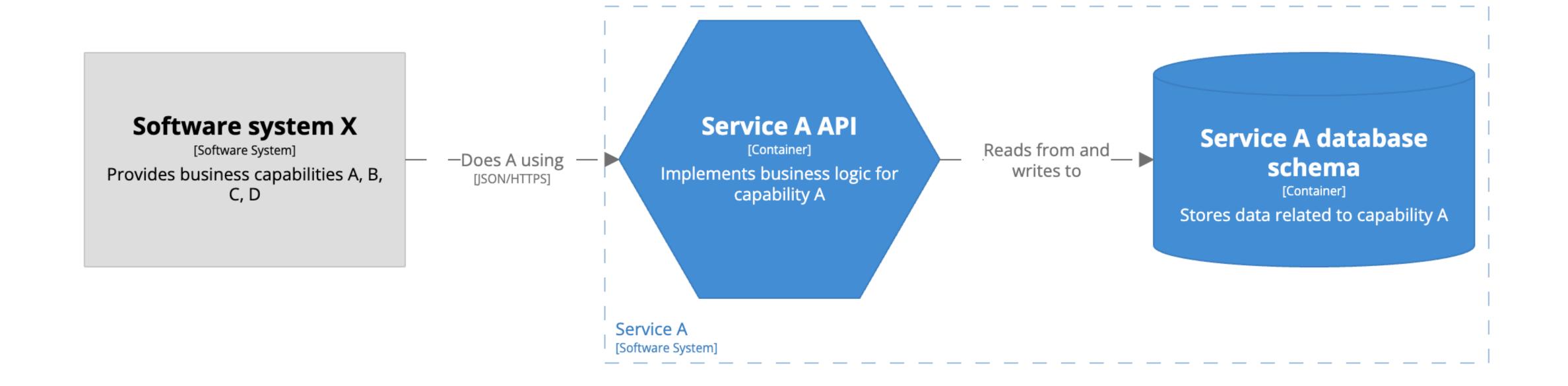
Stage 3: Stage 3: Conway's Law)







[System Context] Service A



[Container] Service A

Micro frontends





Micro Frontends

Good frontend development is hard. Scaling frontend development so that many teams can work simultaneously on a large and complex product is even harder. In this article we'll describe a recent trend of breaking up frontend monoliths into many smaller, more manageable pieces, and how this architecture can increase the effectiveness and efficiency of teams working on frontend code. As well as talking about the various benefits and costs, we'll cover some of the implementation options that are available, and we'll dive deep into a full example application that demonstrates the technique.

19 June 2019



Cam Jackson

Cam Jackson is a full-stack web developer and consultant at Thoughtworks, with a particular interest in how large organisations scale their frontend development process and practices. He has worked with clients across multiple

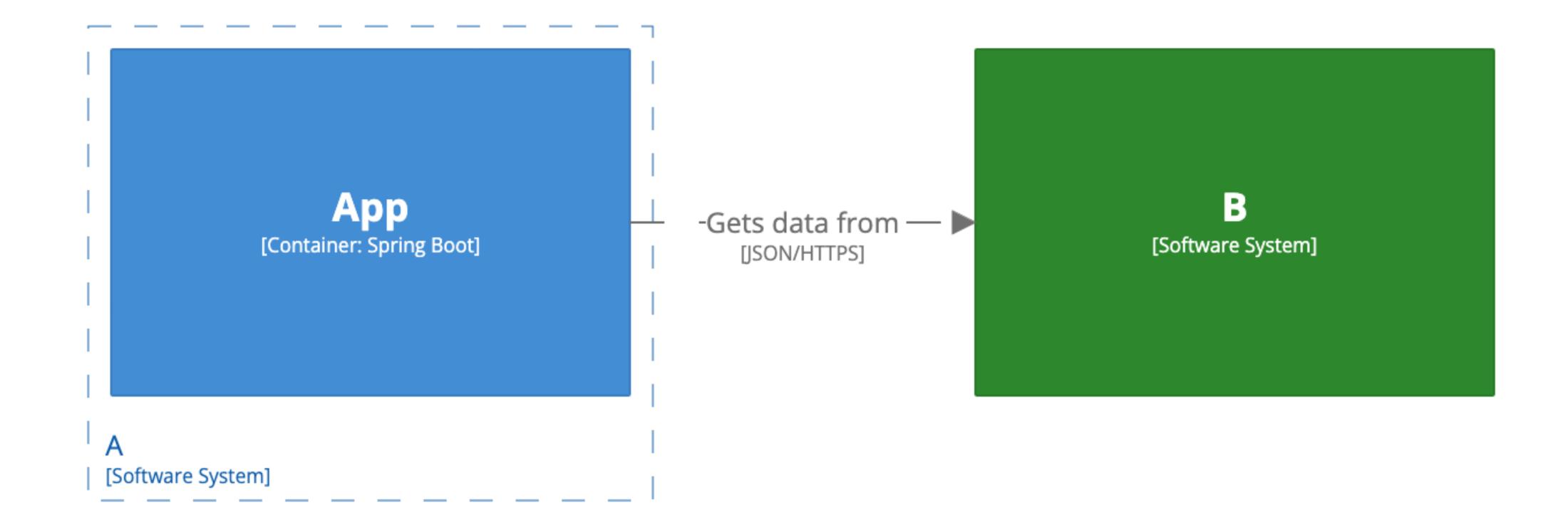
CONTENTS

Benefits

Incremental upgrades Simple, decoupled codebases Independent deployment **Autonomous teams** In a nutshell The example **Integration approaches**

Dependencies to "external" containers

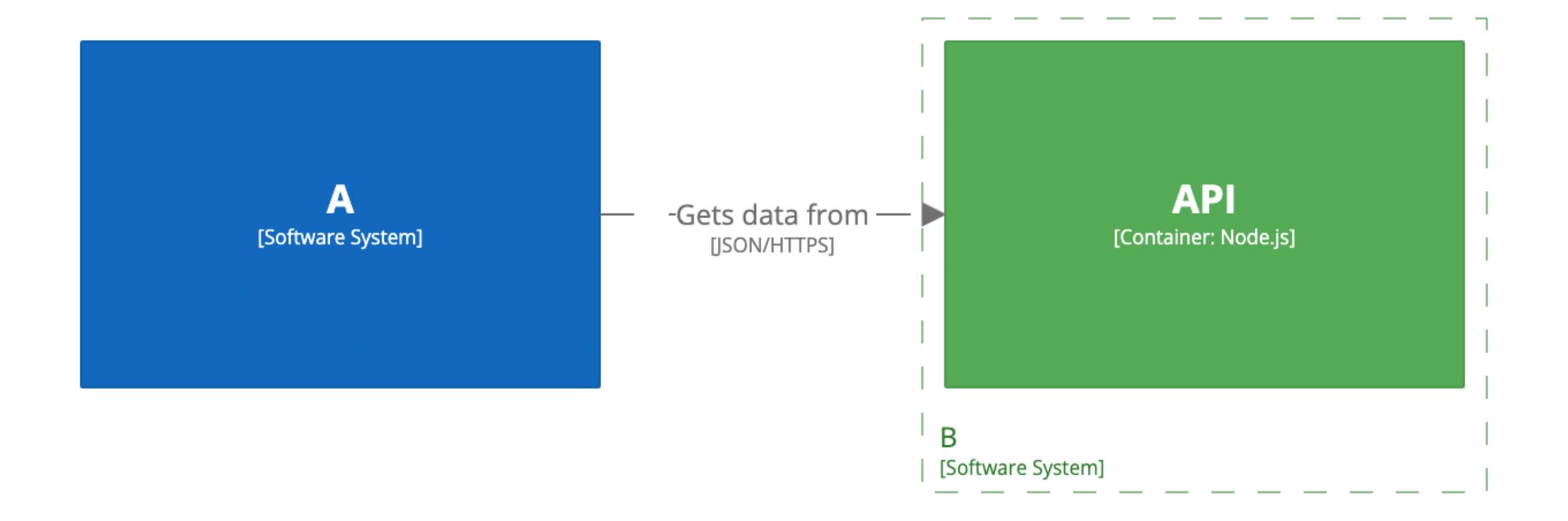
My recommendation is that container diagrams only show containers inside the software system that is the scope of the diagram



Container diagram for software system A

```
container a {
  include *
}
```



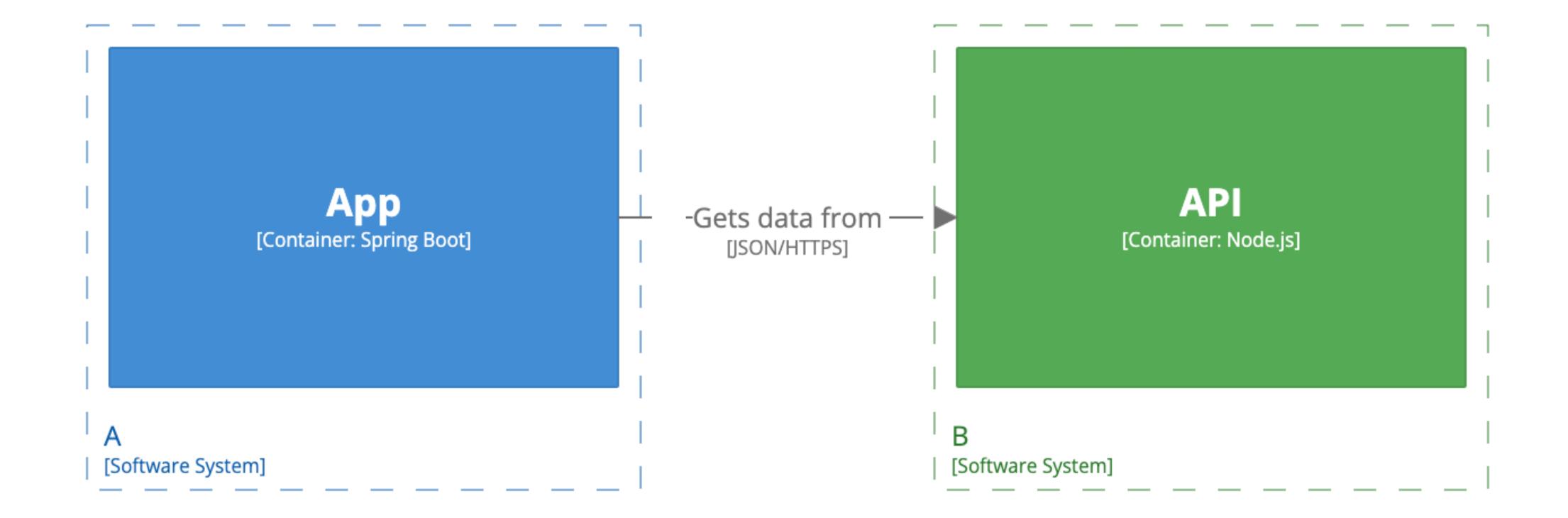


Container diagram for software system B

```
container b {
  include *
}
```



I don't recommend showing "external" containers



Container diagram for software systems A and B

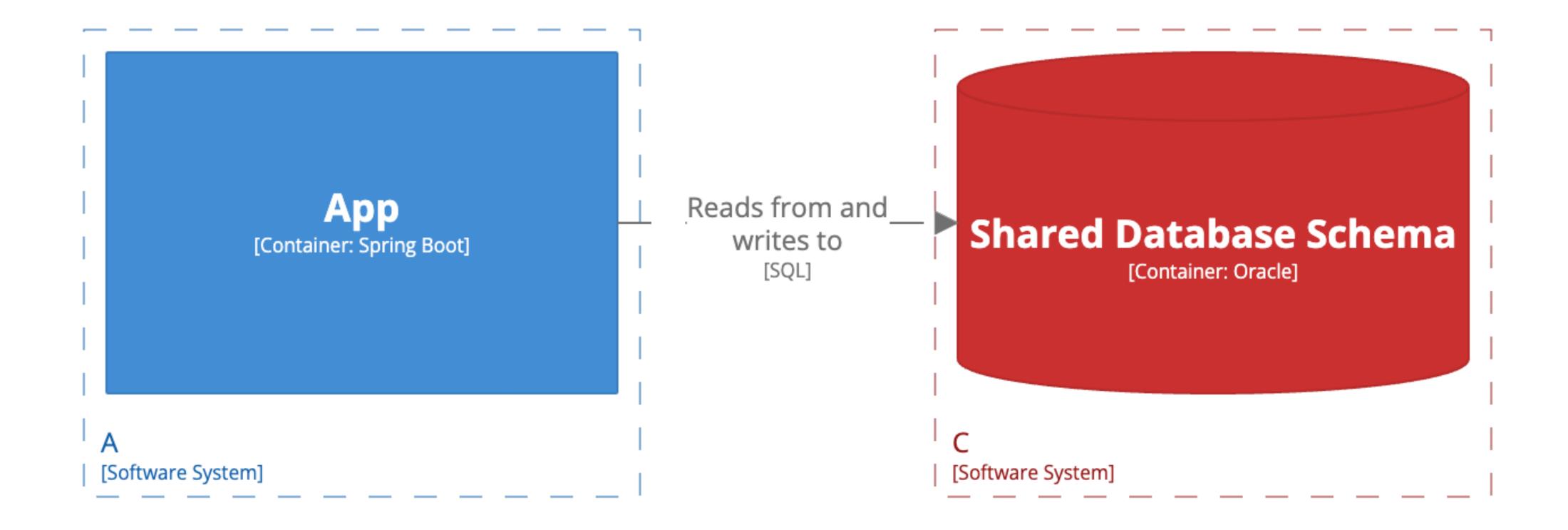
```
container a {
  include a.app b.api
}
```



Showing "external" containers implies some understanding of implementation details, which makes the diagrams more volatile to change

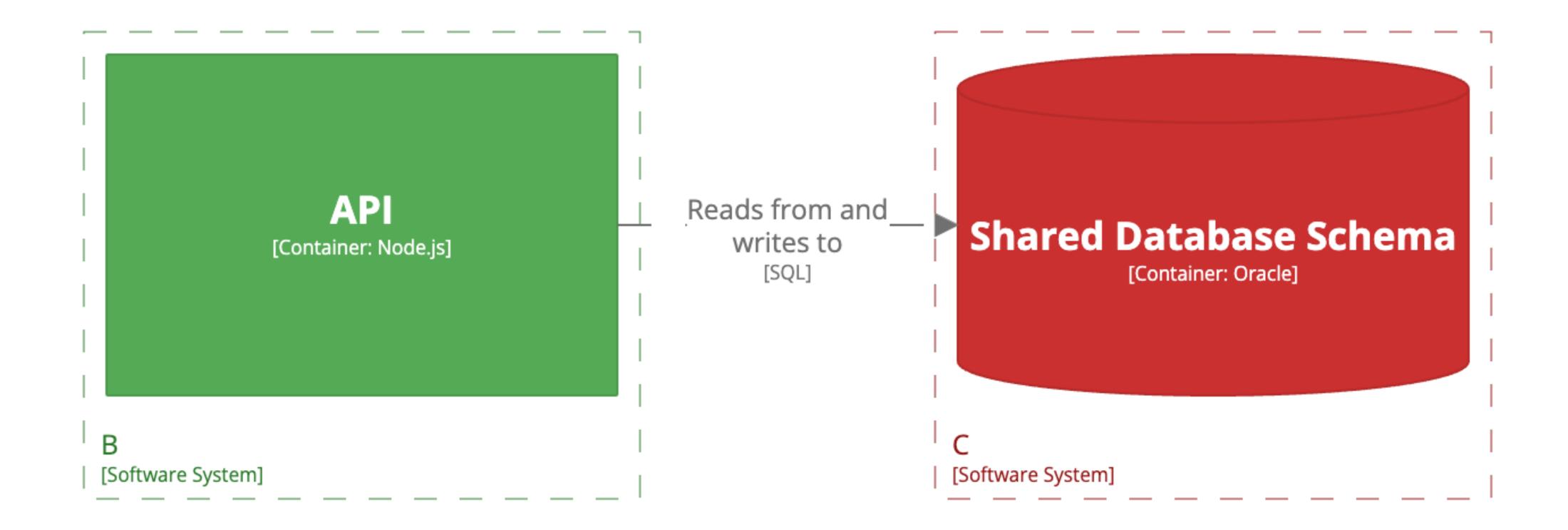
This is a form of coupling

There may some useful exceptions to this guidance...



Container diagram for software system A, showing a shared DB

```
container a {
  include a.app c.db
}
```

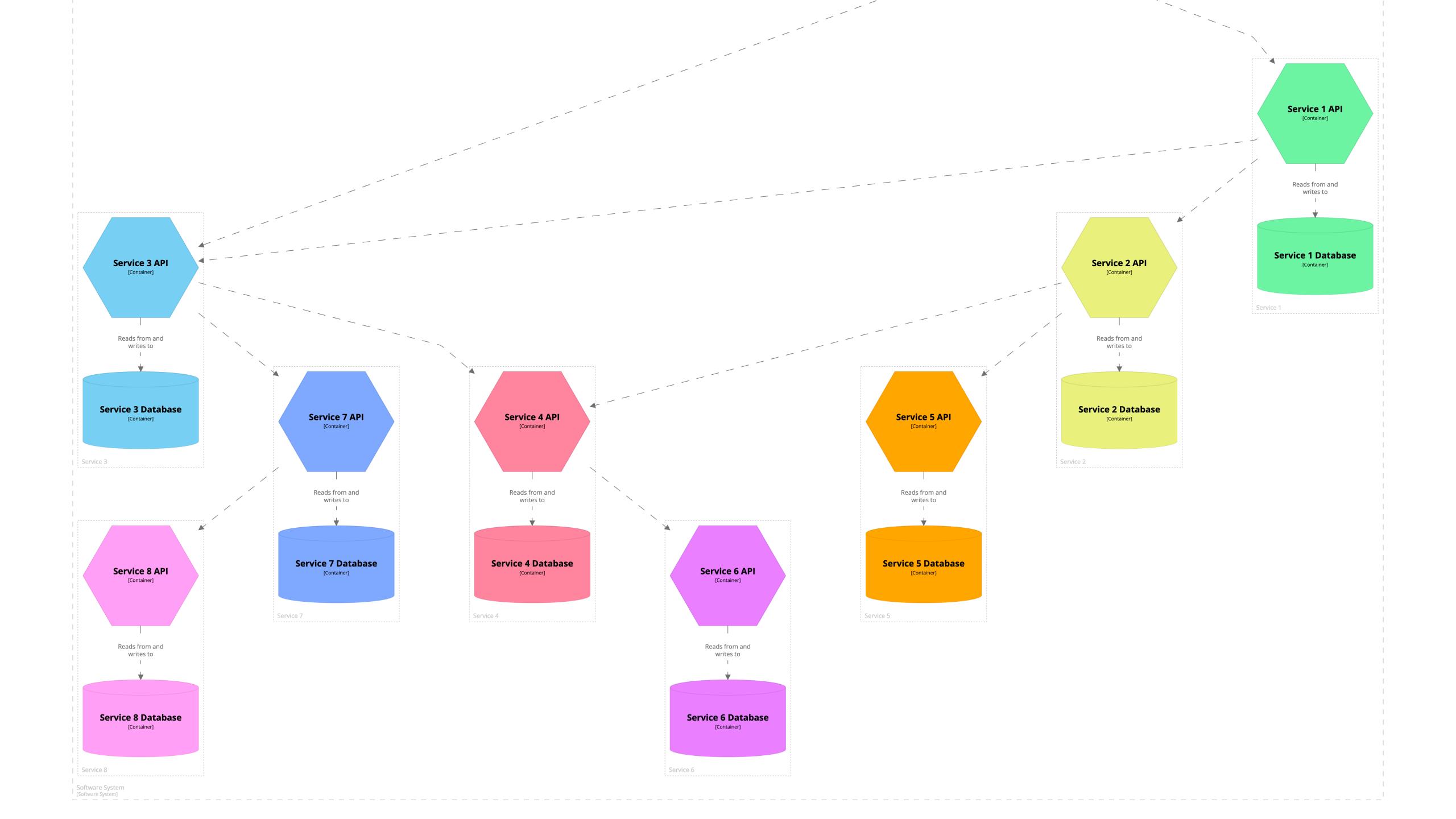


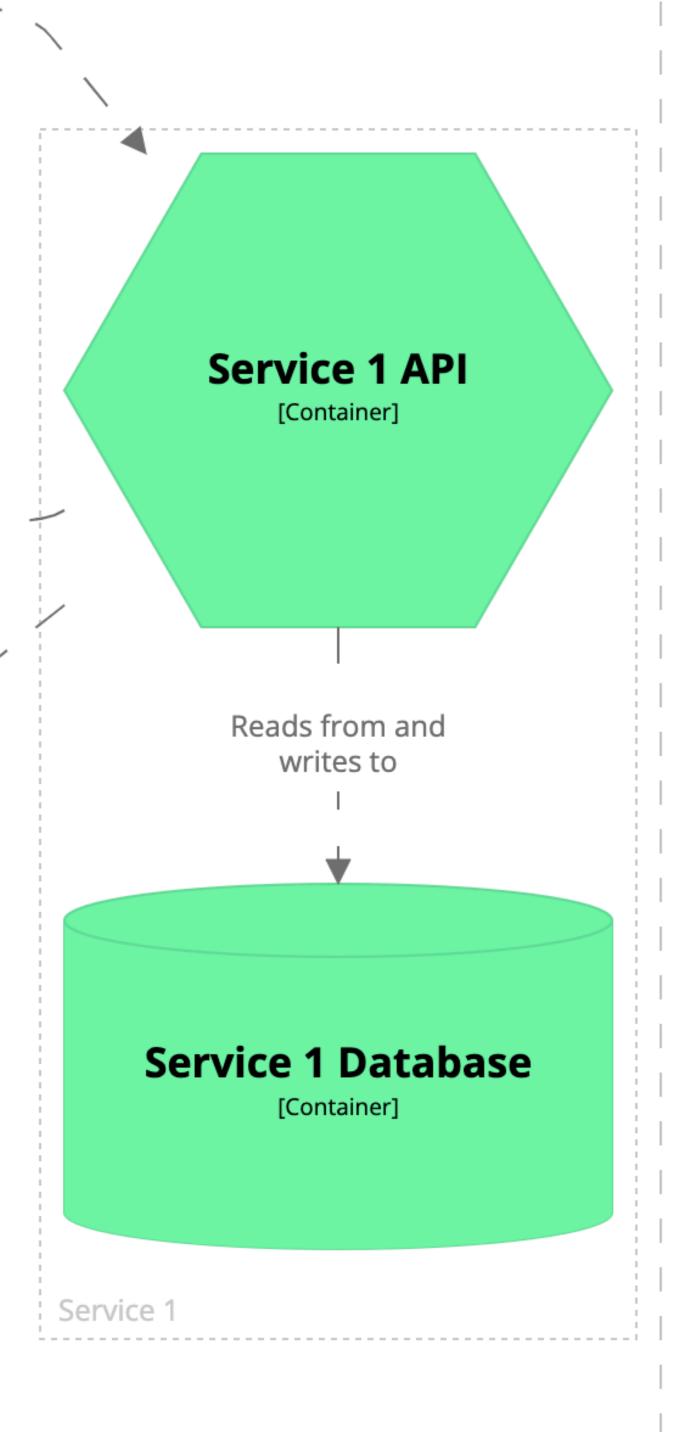
Container diagram for software system B, showing a shared DB

```
container b {
  include b.api c.db
}
```

Tooling

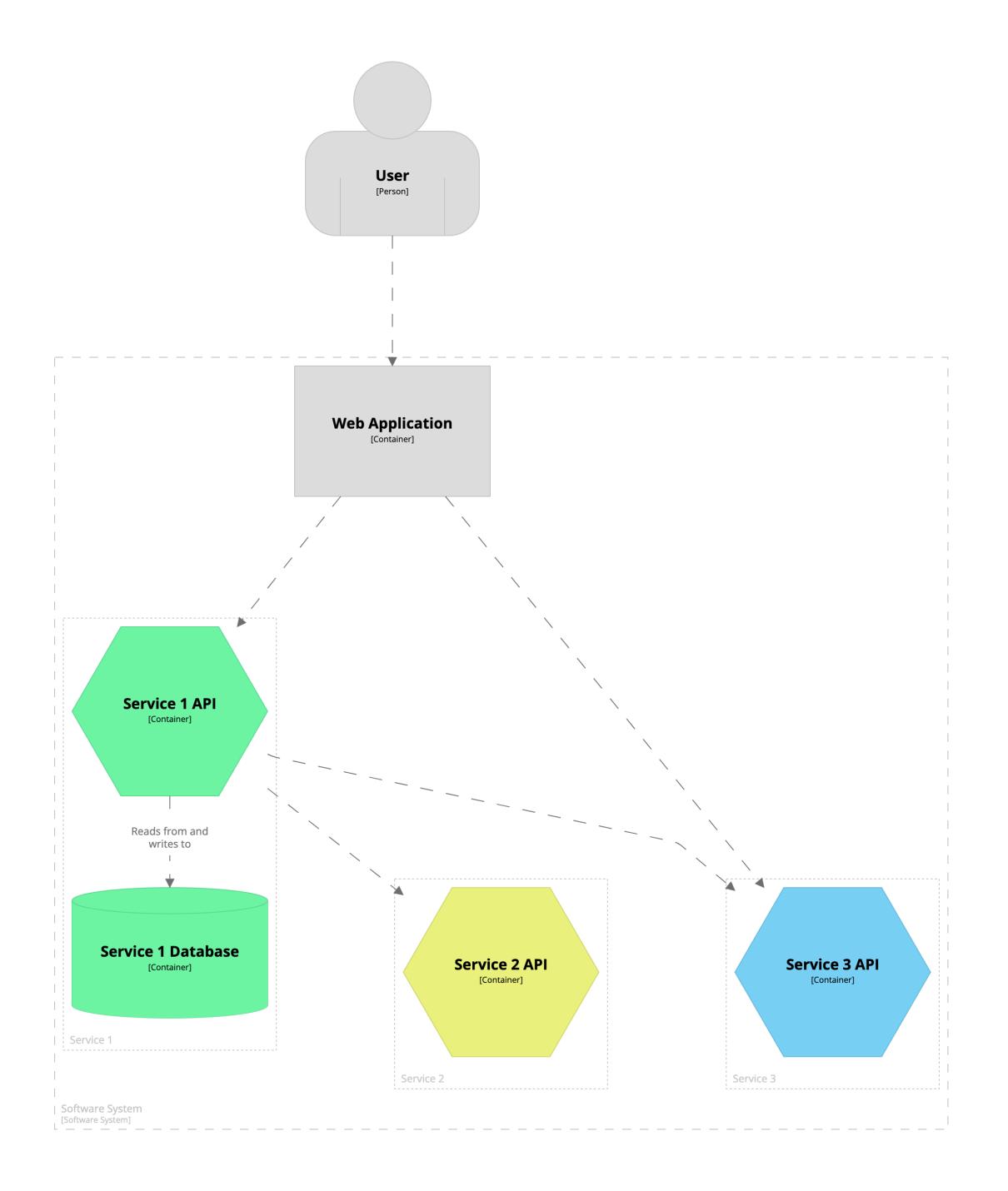
C4 doesn't scale



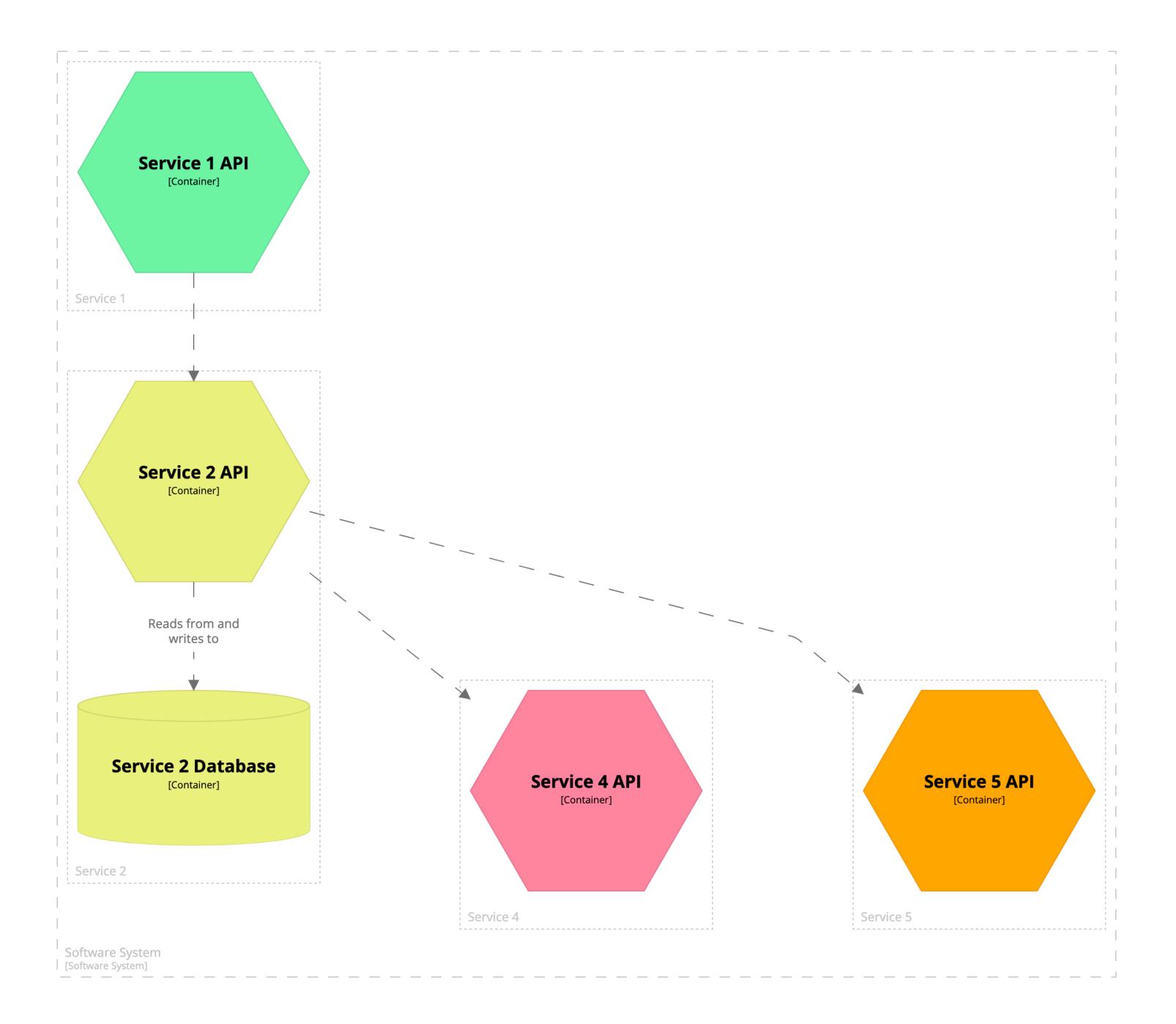


In this example,
a microservice is
a combination of
an API and
a database schema

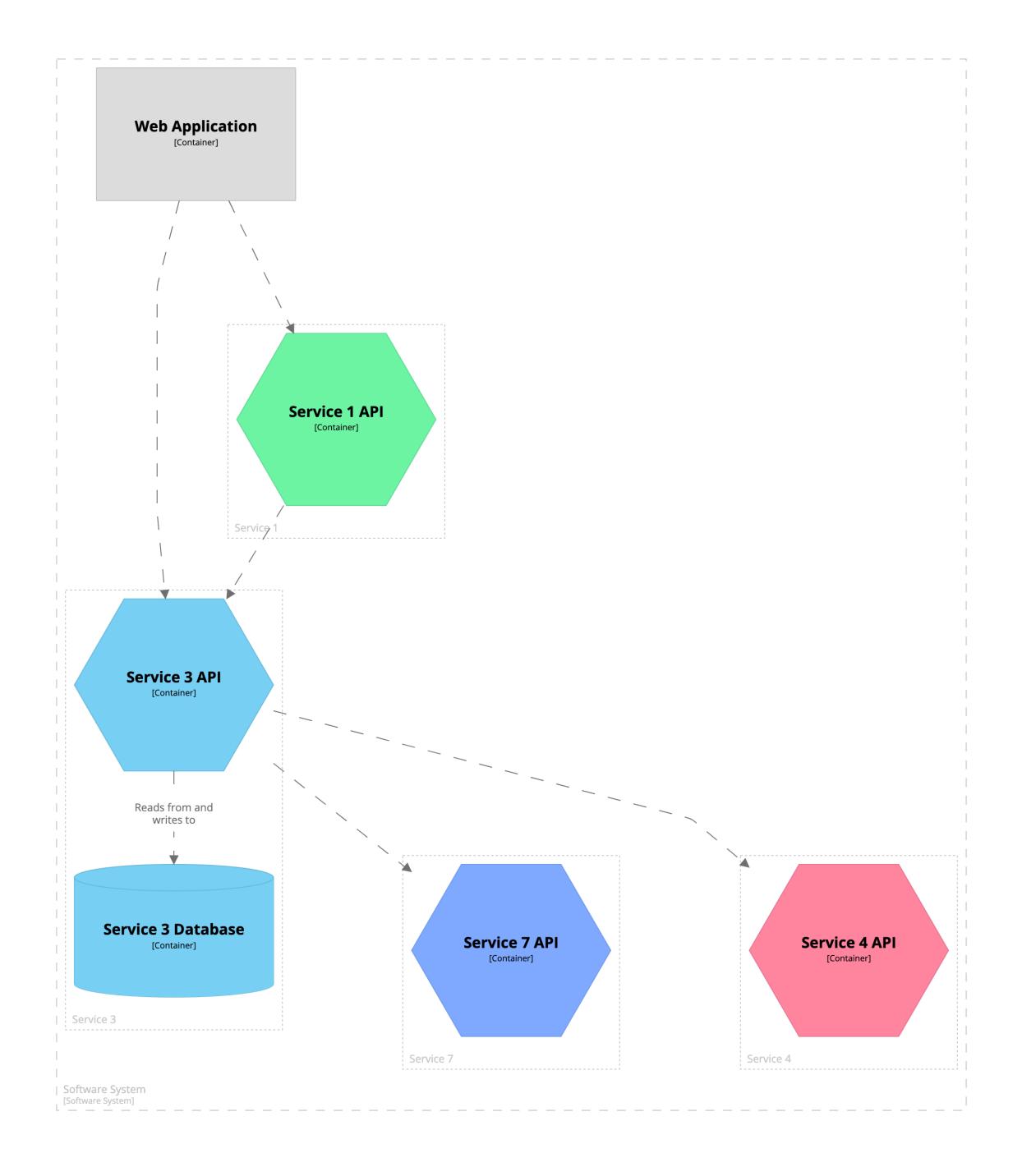
```
container softwareSystem {
  include user
  Include ->service1->
}
```

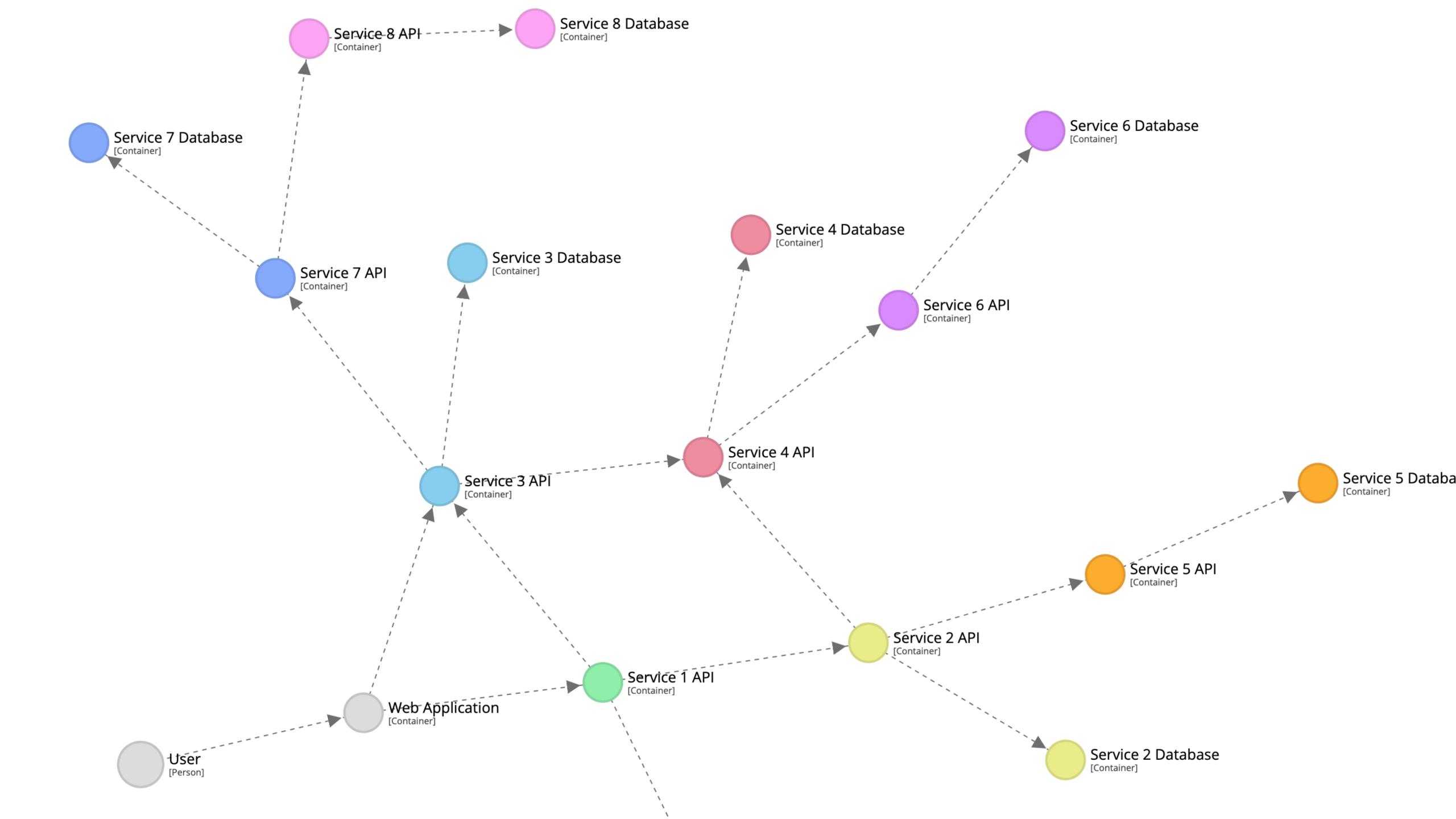


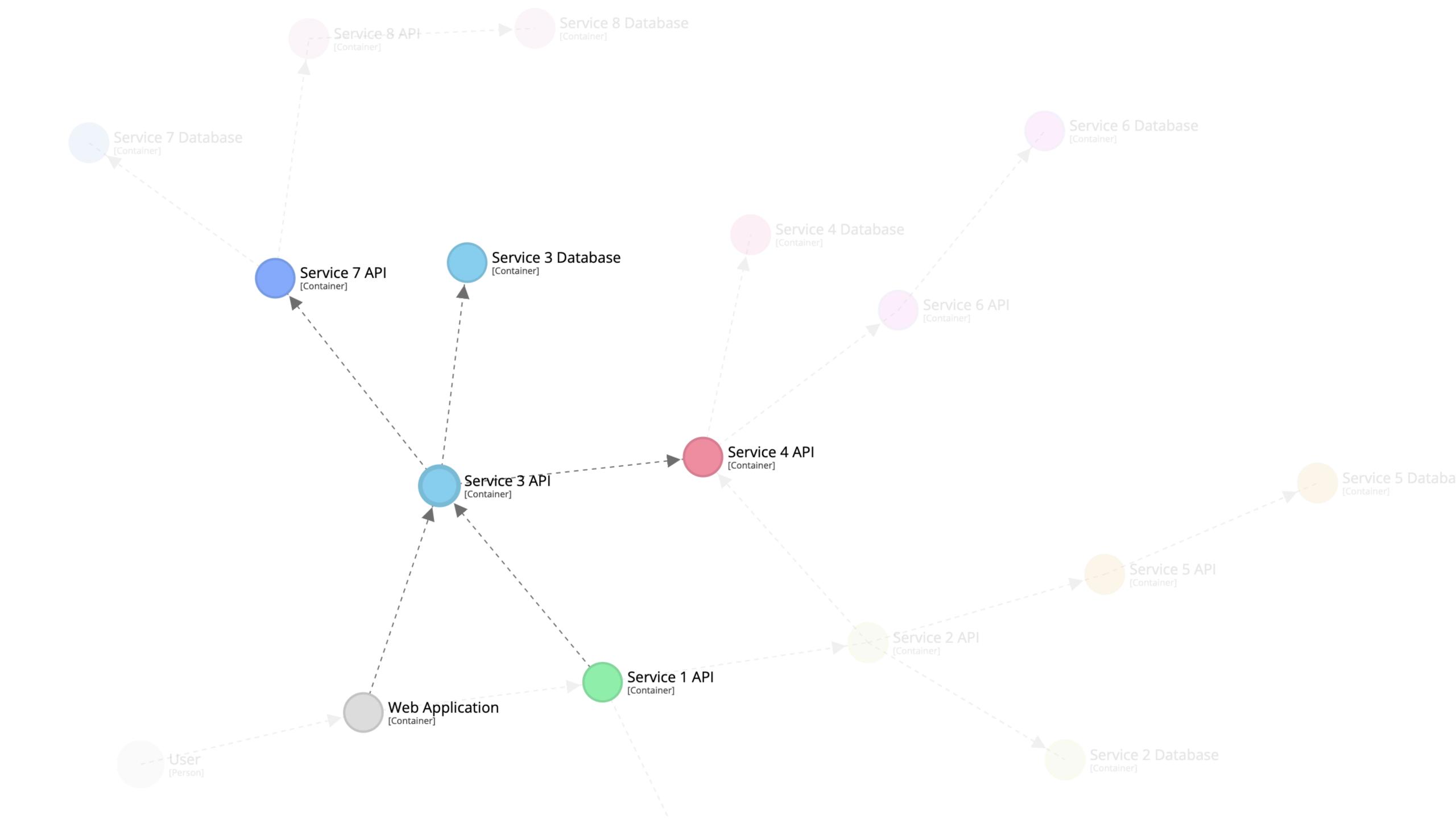
```
container softwareSystem {
  include ->service2->
}
```

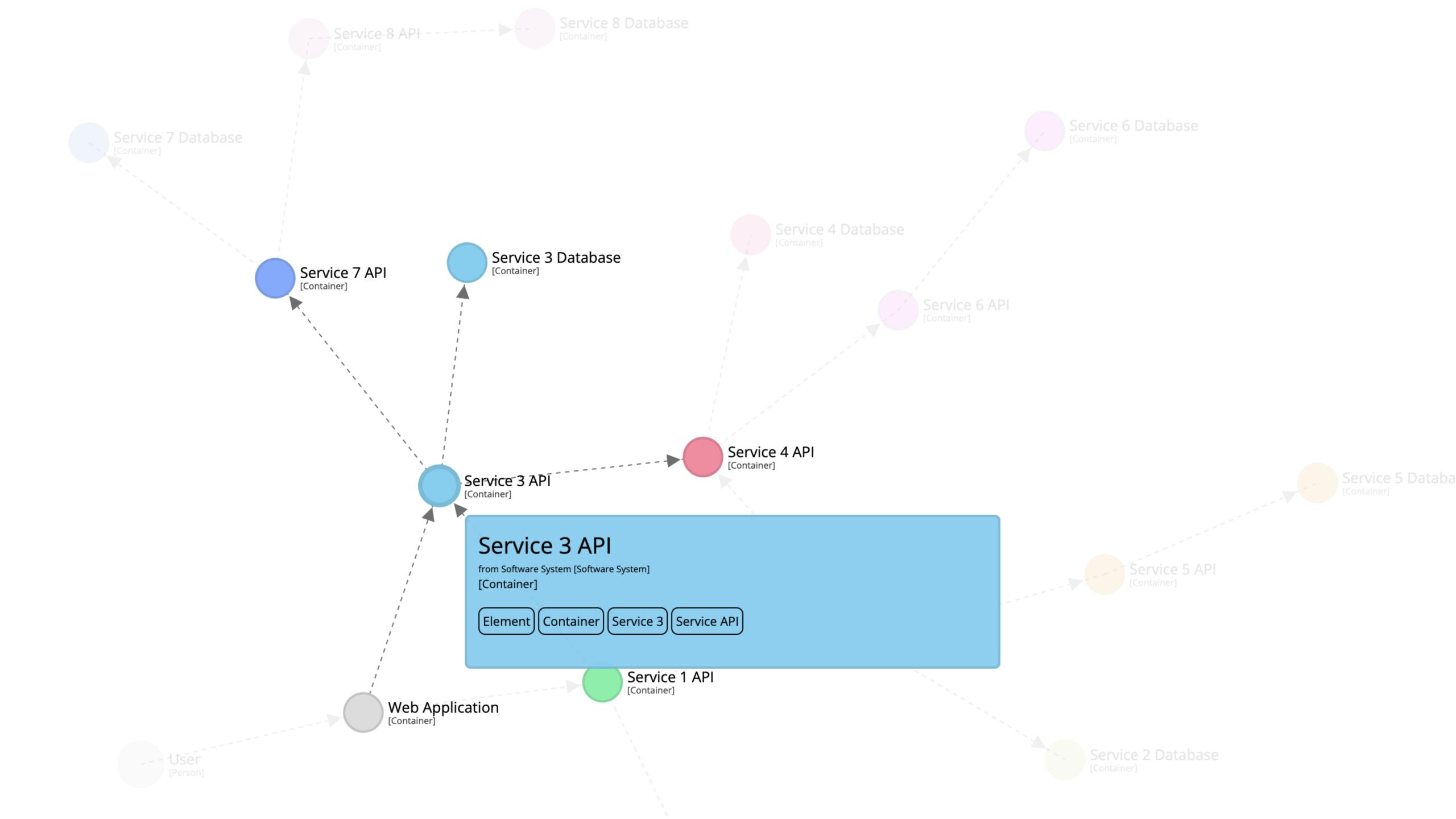


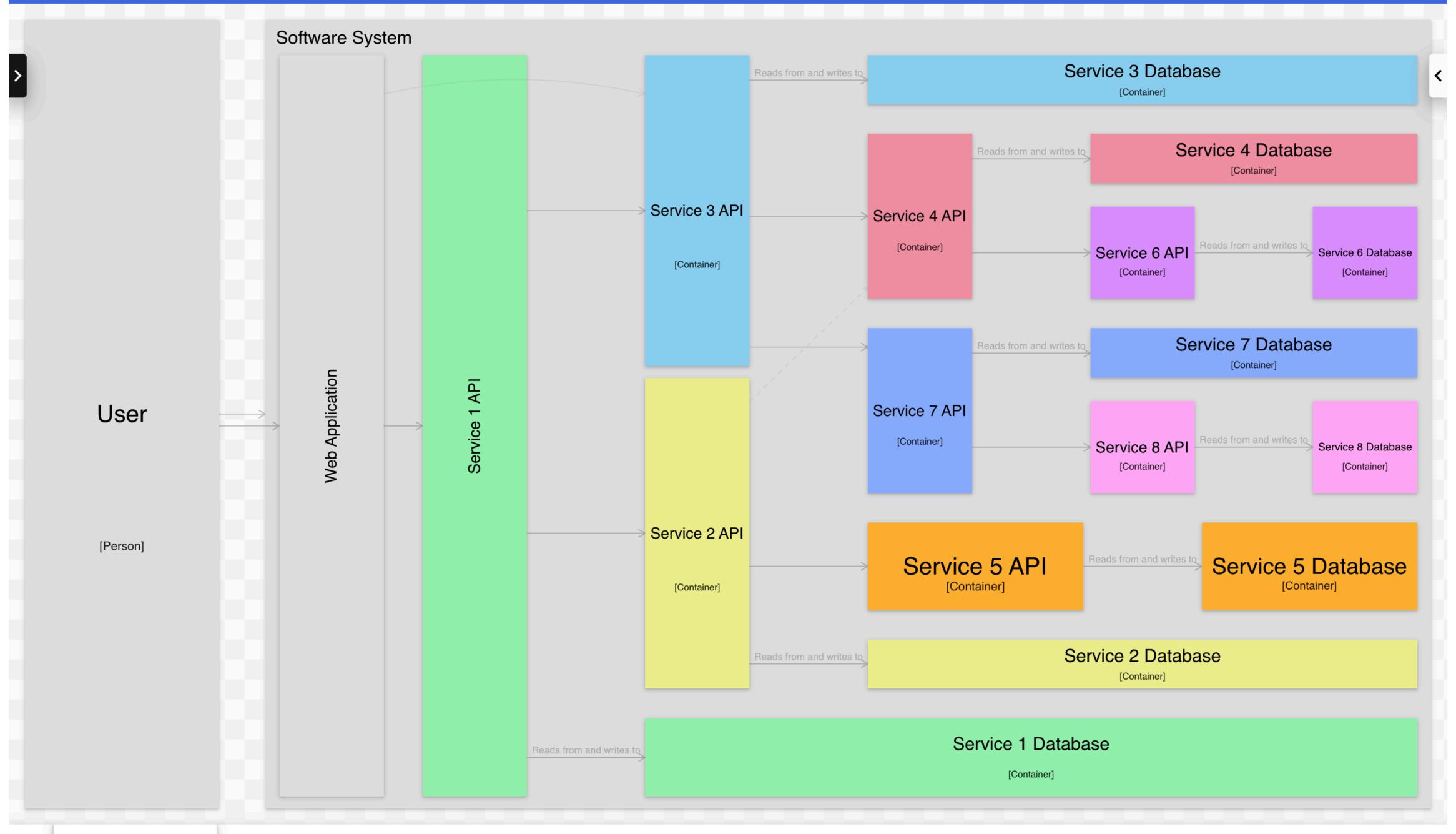
```
container softwareSystem {
  include ->service3->
}
```

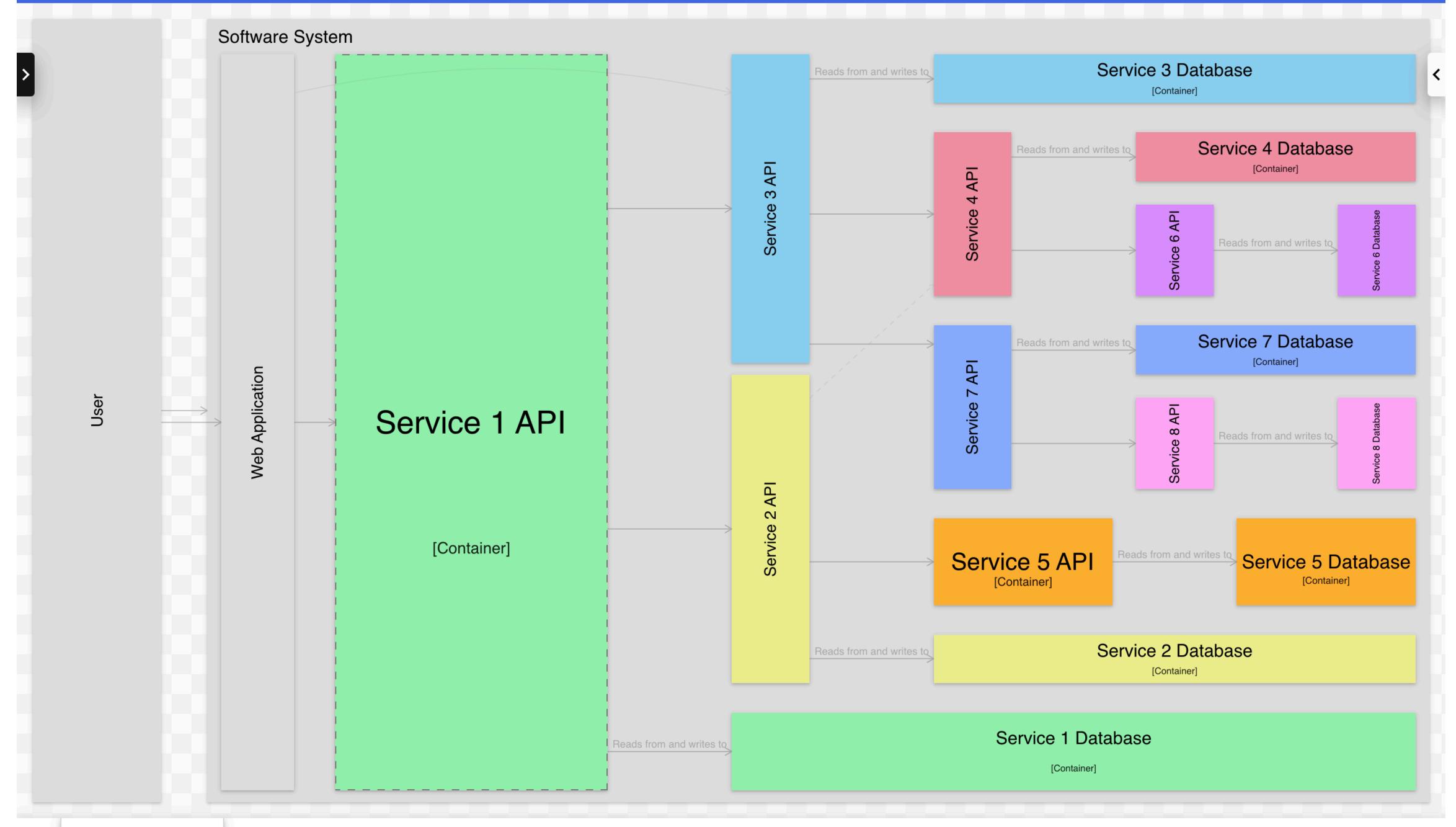


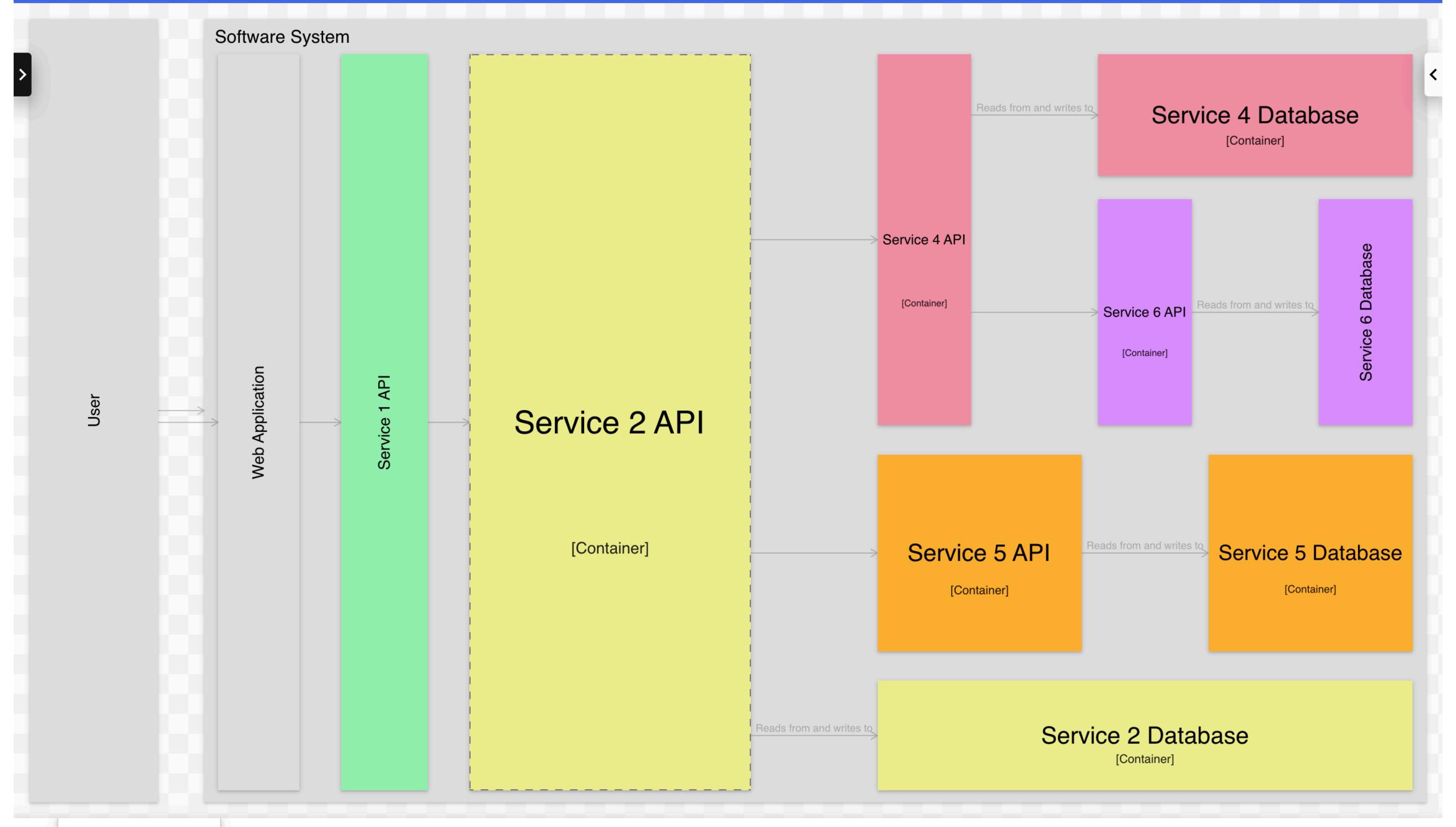


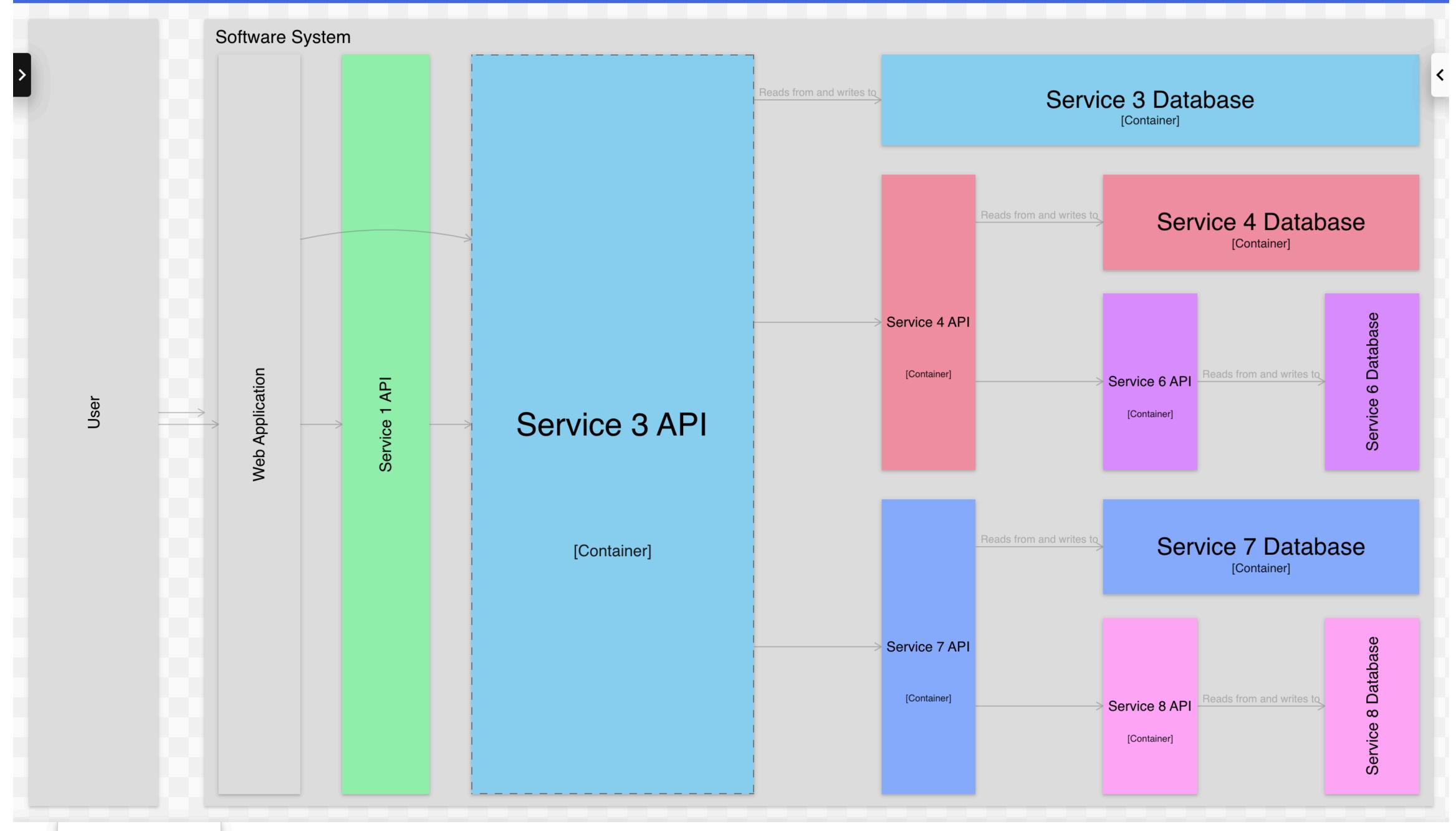












C4 still doesn't solve the problem of diagrams becoming out of date

The C4 model is...

A set of hierarchical abstractions

(software systems, containers, components, and code)

A set of hierarchical diagrams

(system context, containers, components, and code)

Notation independent

Tooling independent

System landscape and context diagrams

Use existing system/service catalogs (e.g. Backstage, ServiceNow, etc) as a source of data for identifying software systems and relationships

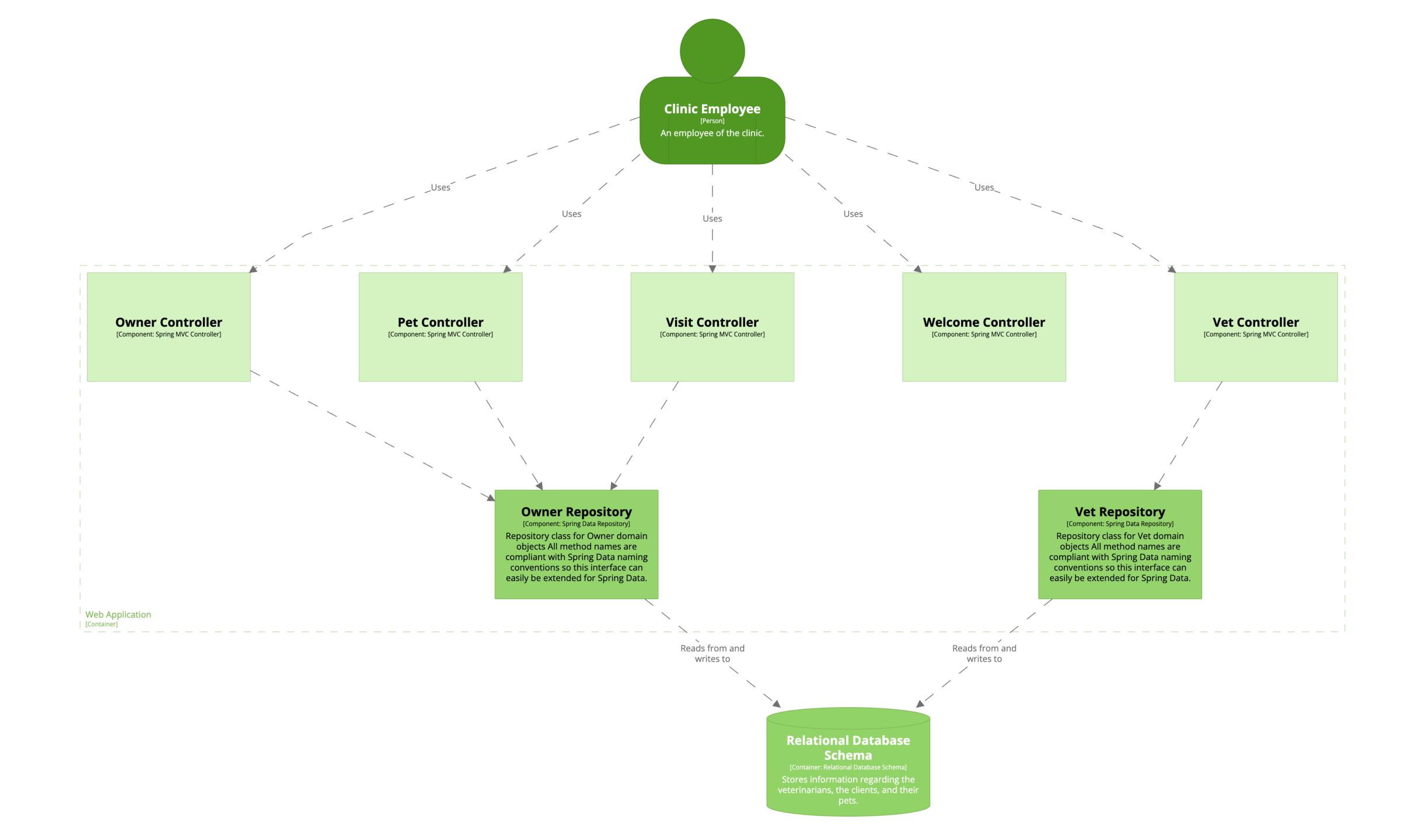
Container diagrams

Parse log files or use OpenTelemetry data as a source of data for identifying applications/services and relationships

Component diagrams

Static analysis/reverse-engineering of code as a source of data for identifying components and their relationships

```
webApplication = container "Web Application" {
   description "Allows employees to view and manage information regarding the veterinarians, the clients, and their pets."
   technology "Java and Spring"
    !components {
        classes "${SPRING_PETCLINIC_HOME}/target/spring-petclinic-3.3.0-SNAPSHOT.jar"
        source "${SPRING_PETCLINIC_HOME}/src/main/java"
       filter include fqn-regex "org.springframework.samples.petclinic..*"
        strategy {
           technology "Spring MVC Controller"
           matcher annotation "org.springframework.stereotype.Controller"
           filter exclude fqn-regex ".*.CrashController"
           url prefix-src "https://github.com/spring-projects/spring-petclinic/blob/main/src/main/java"
           forEach {
                clinicEmployee -> this "Uses"
               tag "Spring MVC Controller"
       strategy {
           technology "Spring Data Repository"
           matcher implements "org.springframework.data.repository.Repository"
           description first-sentence
           url prefix-src "https://github.com/spring-projects/spring-petclinic/blob/main/src/main/java"
           forEach {
                -> relationalDatabaseSchema "Reads from and writes to"
                tag "Spring Data Repository"
```



Deployment diagrams

Parse "infrastructure as code" definitions

(e.g. Terraform, CloudFormation, etc)

or reverse-engineer cloud environment configuration
as a source of data for identifying deployment elements

A final note...

Level 1	Level 2	Level 3	Level 4	Level 5
Initial No software architecture diagrams.	Ad hoc Software architecture diagrams with ad hoc abstractions and notation, in a general purpose diagramming tool.	Defined Software architecture diagrams with defined abstractions and notation, in a general purpose diagramming tool.	Modelled Software architecture diagrams with defined abstractions and notation, in a modelling tool, authored manually.	Optimising - Model elements are shared between teams. - Centralised system landscape views are generated by aggregating decentralised team-based models. - Model elements are reverse-engineered from source code, deployment environment, logs, etc. - Alternative visualisations are used for different use cases (e.g. communication vs exploration). - Models are used as queryable datasets.

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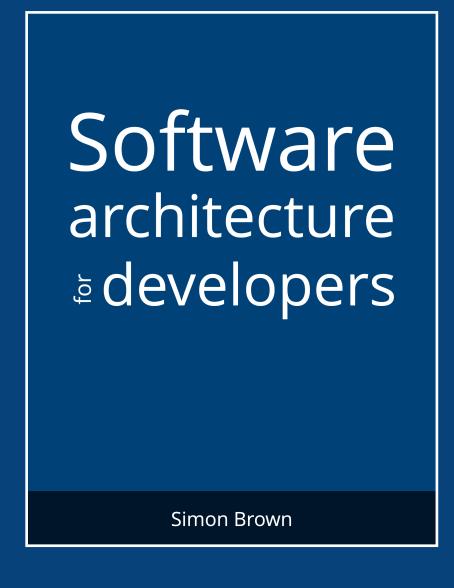
A set of hierarchical diagrams

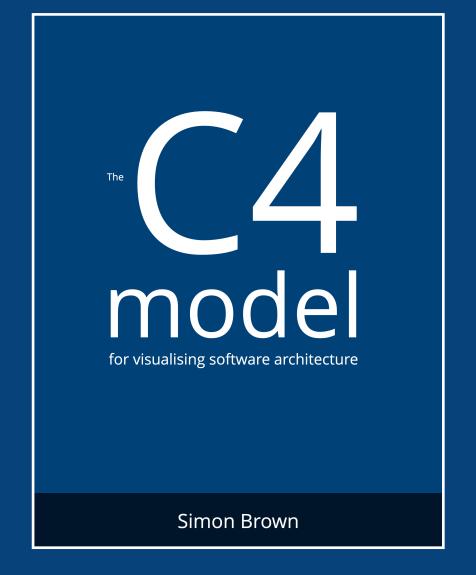
(system context, containers, components, and code)

Notation independent

Tooling independent

Thank you!





https://leanpub.com/b/software-architecture

Simon Brown