

# Visualising Software Architecture

Software Engineering Course – 4  
2024-2025



# Agenda

01

**Recap Software  
Architecture**

02

**Why visualisation**

03

**UML**

04

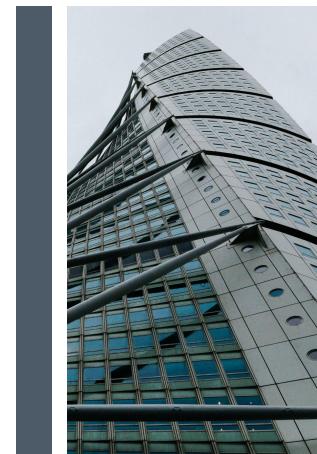
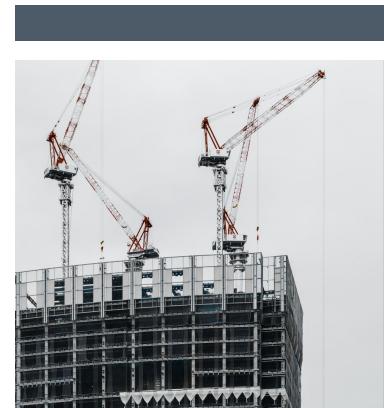
**C4 Model**

05

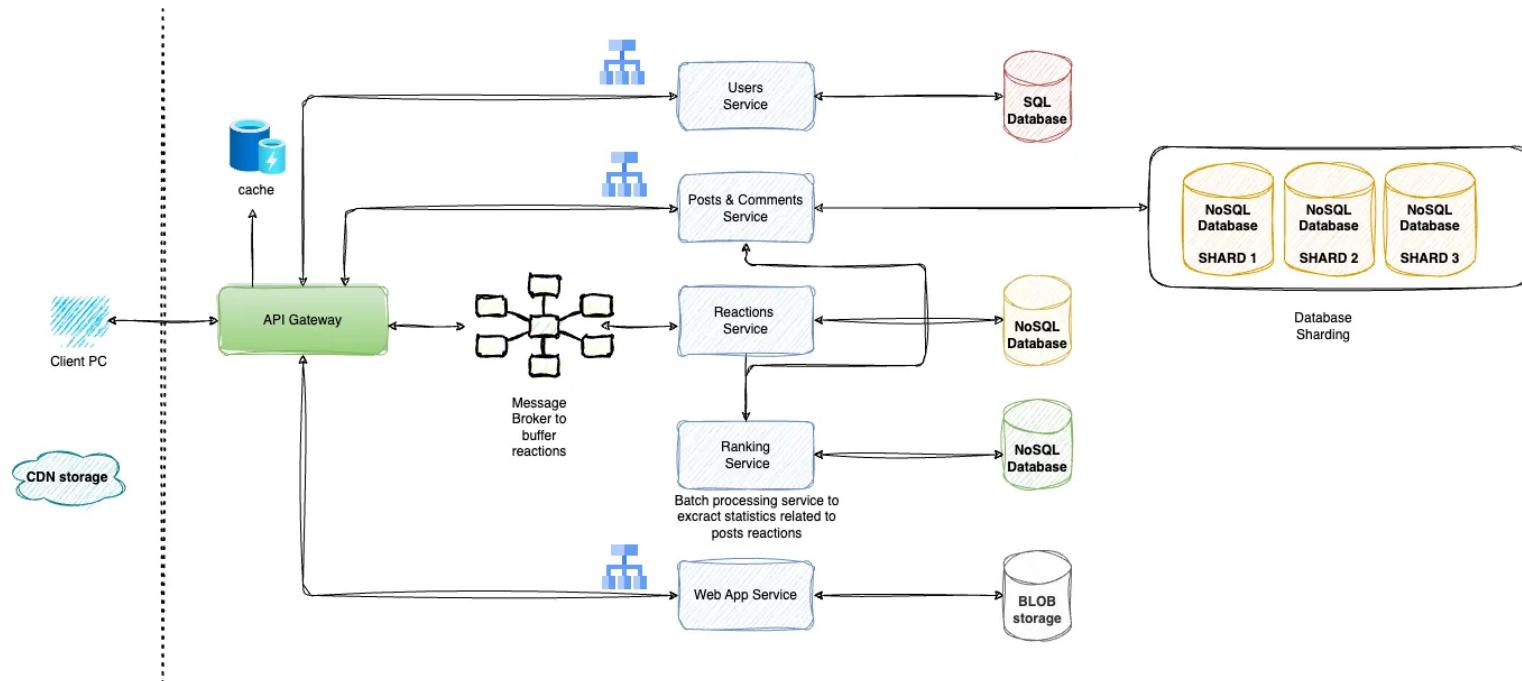
**Context and  
Container Diagrams**

06

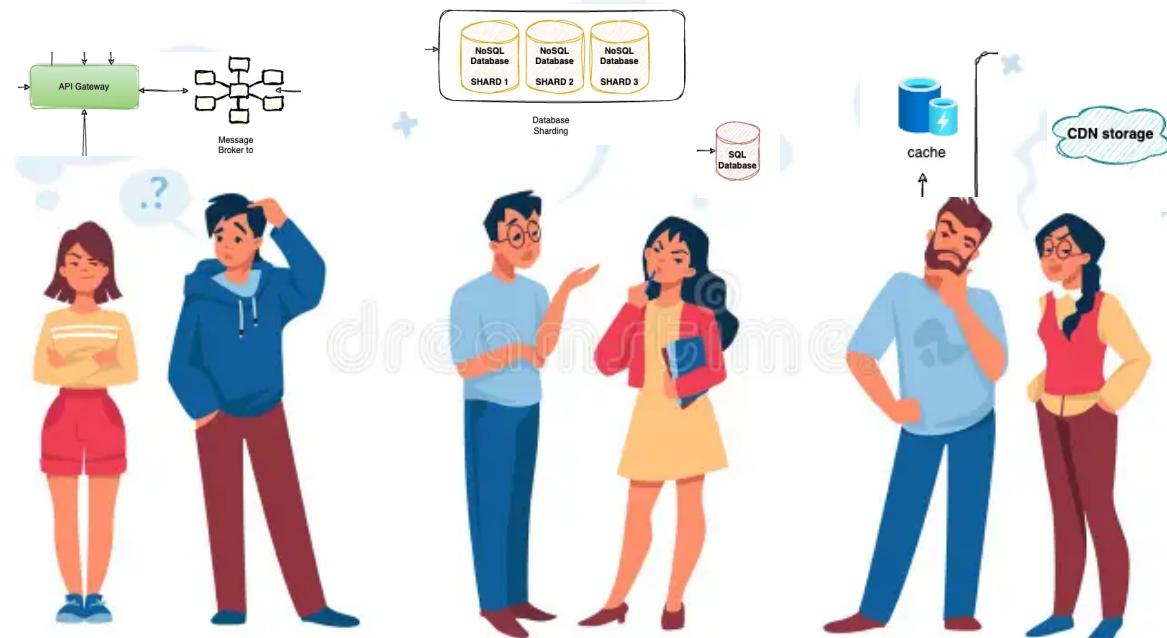
**Tools**

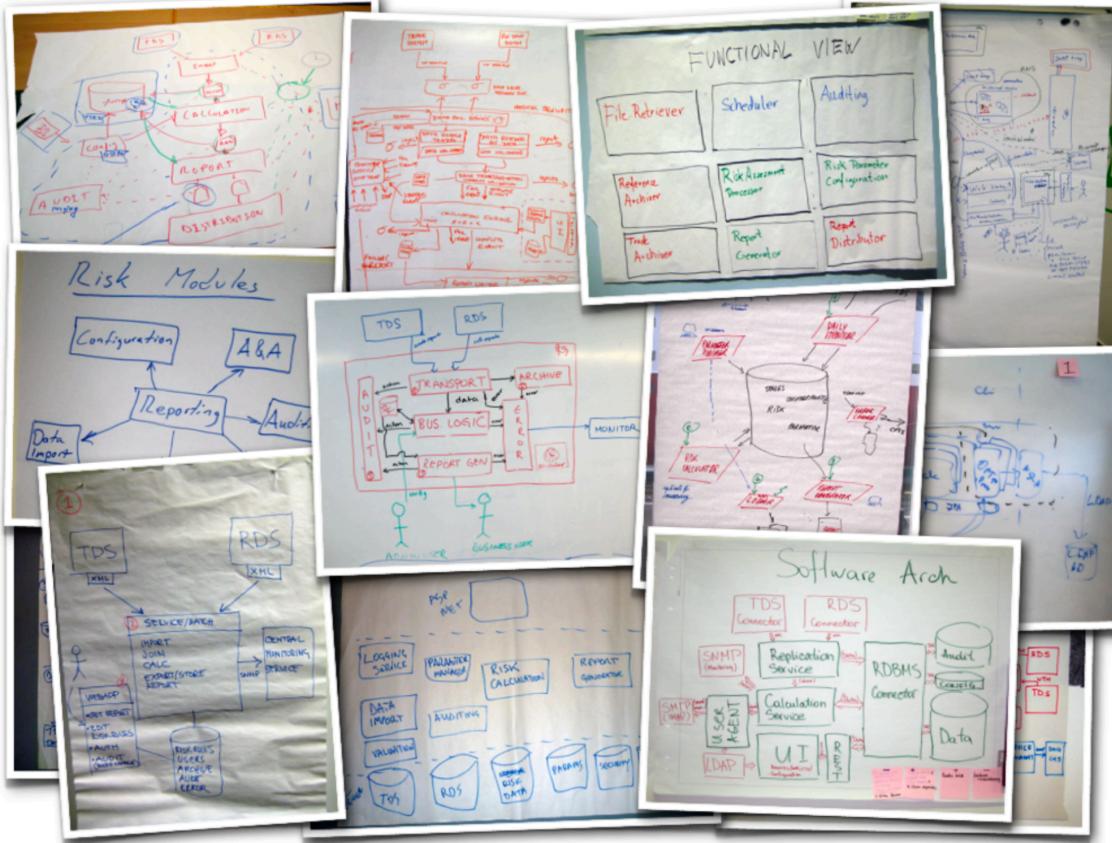


# Software Architecture



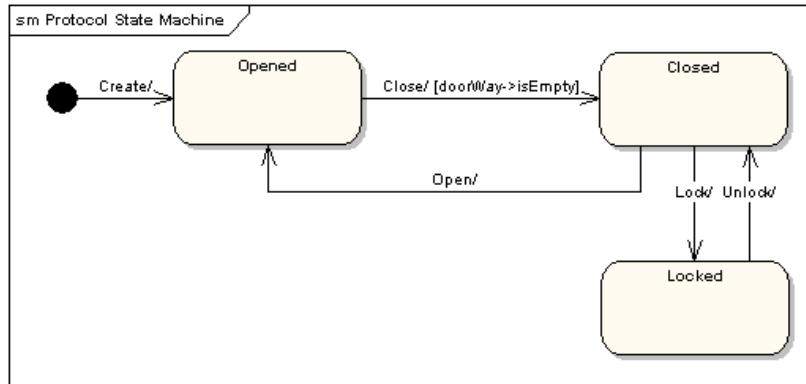
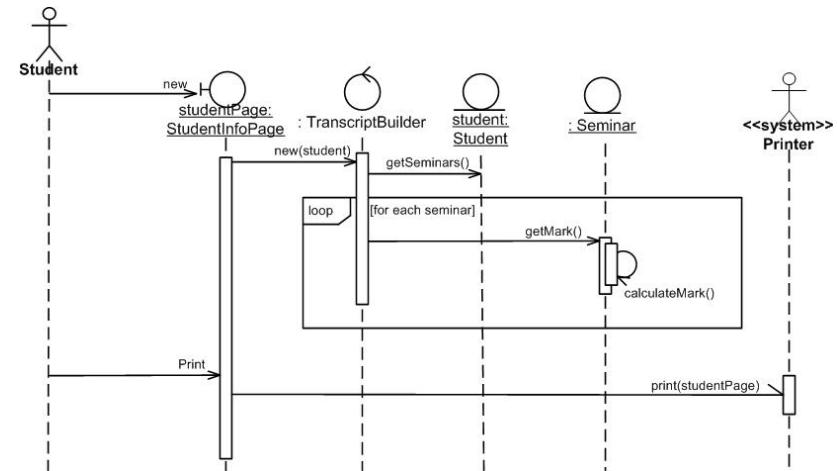
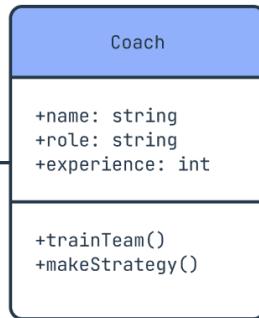
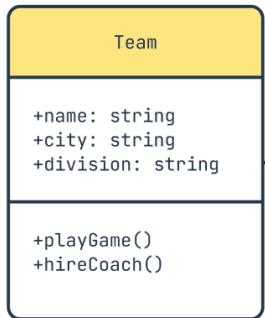
# The failure to communicate



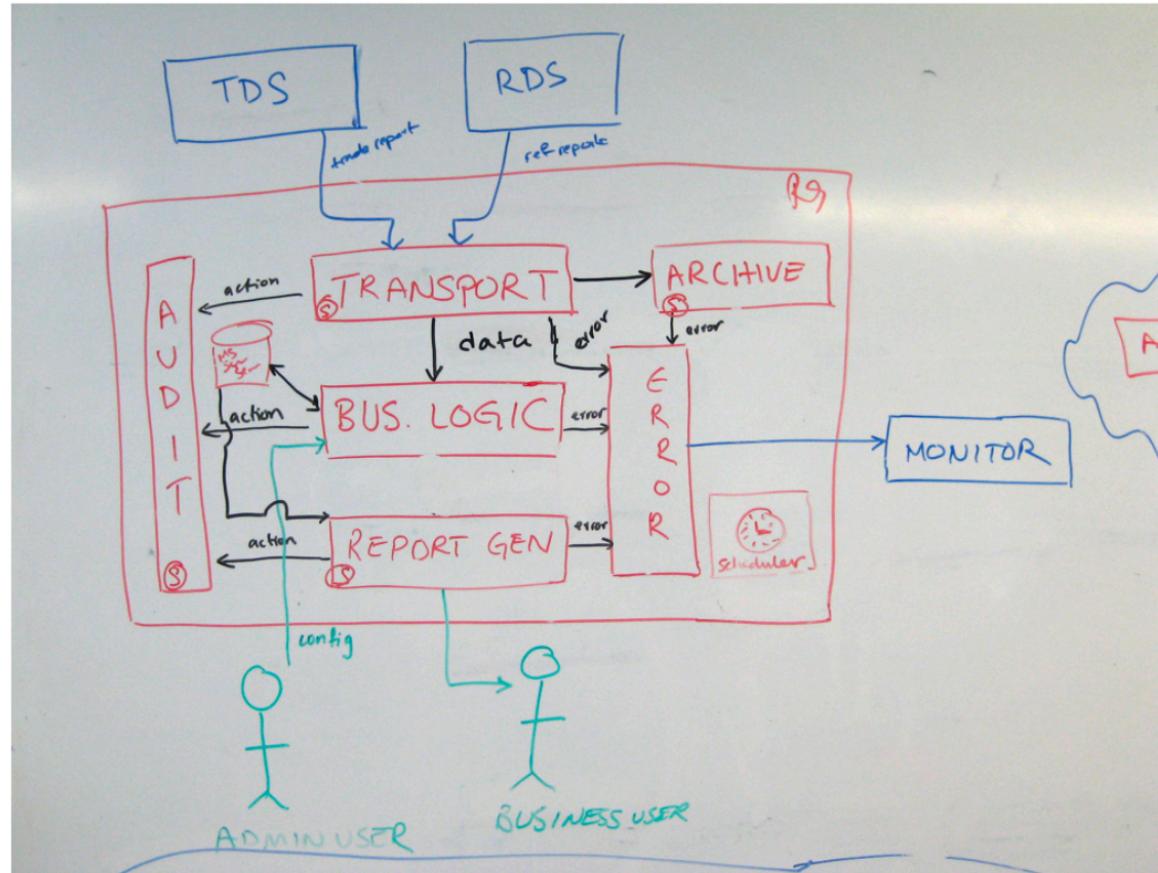


A selection of typical “boxes and lines” diagrams

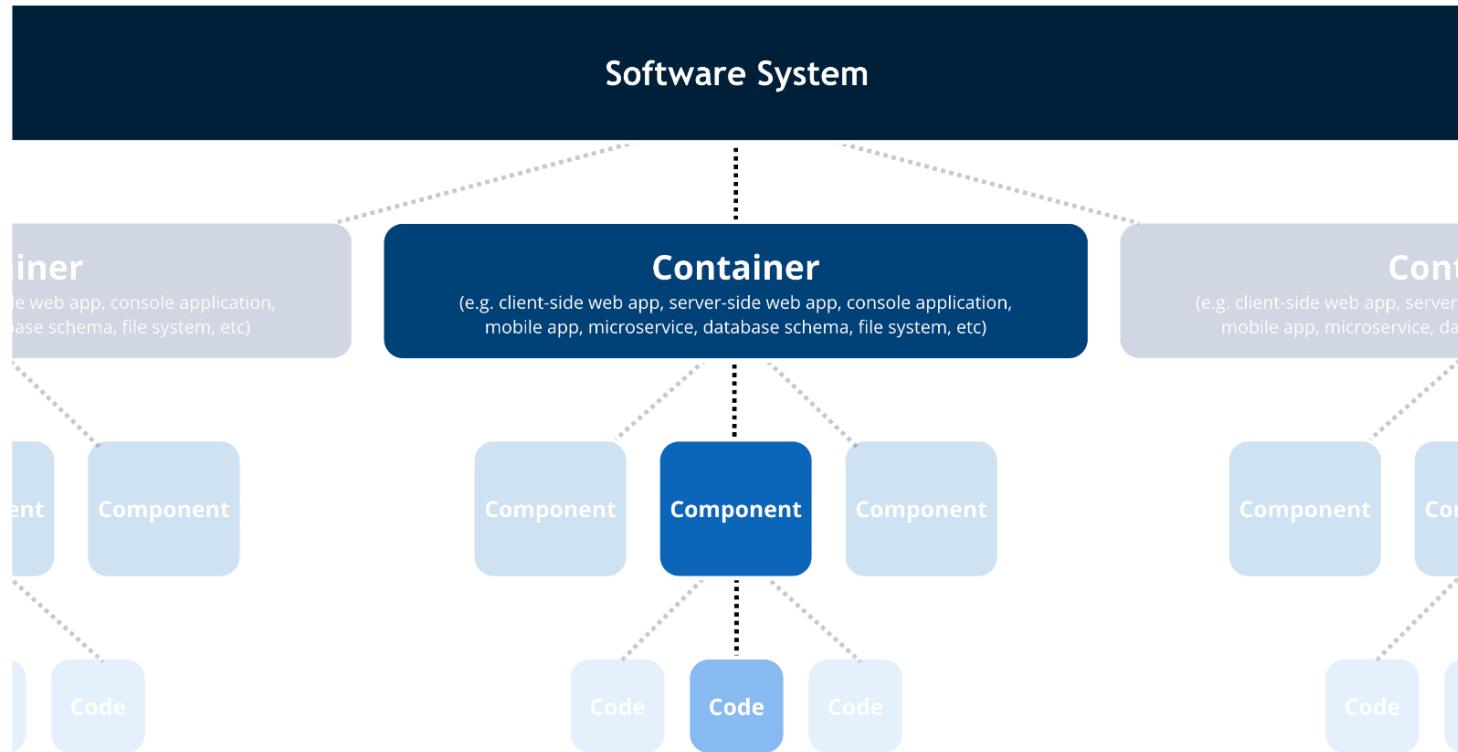
# UML



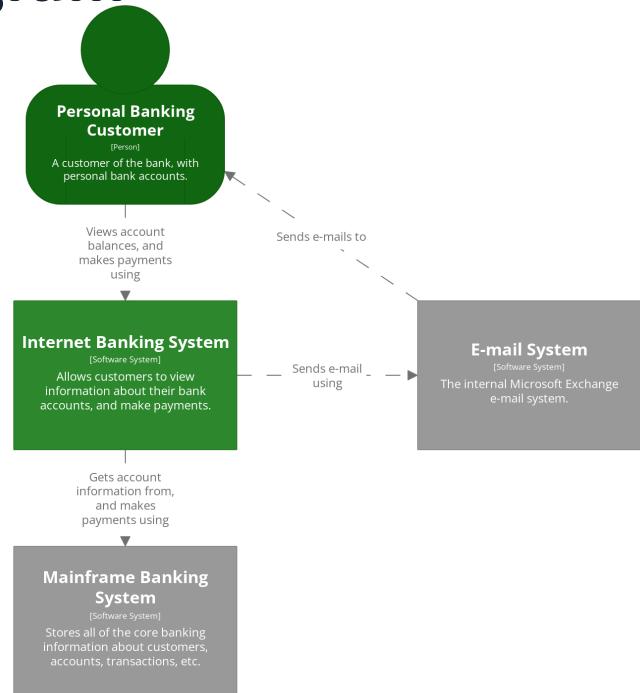
# Attempts were made



# Common vocabulary



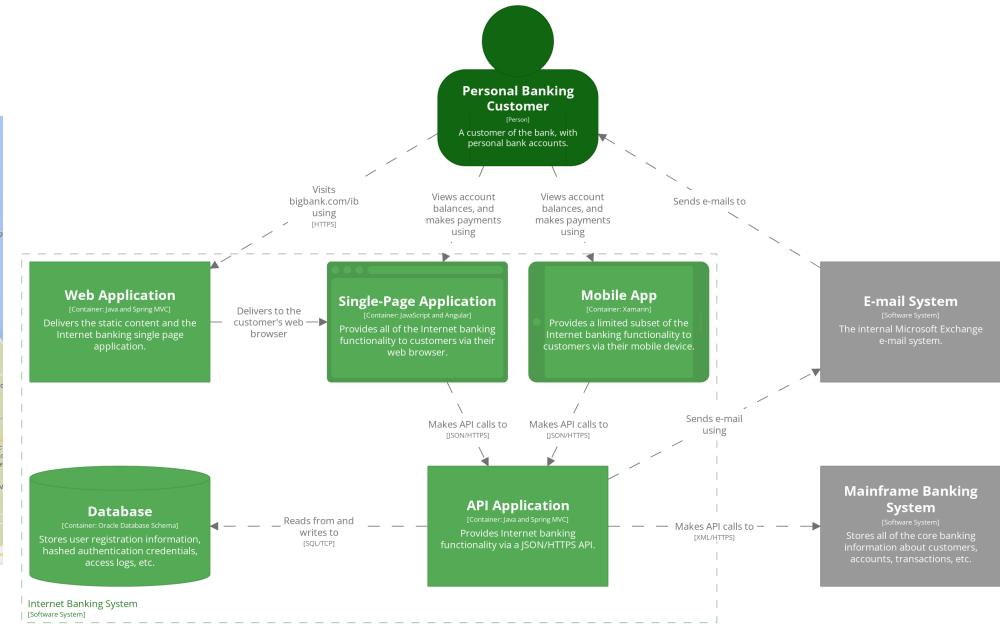
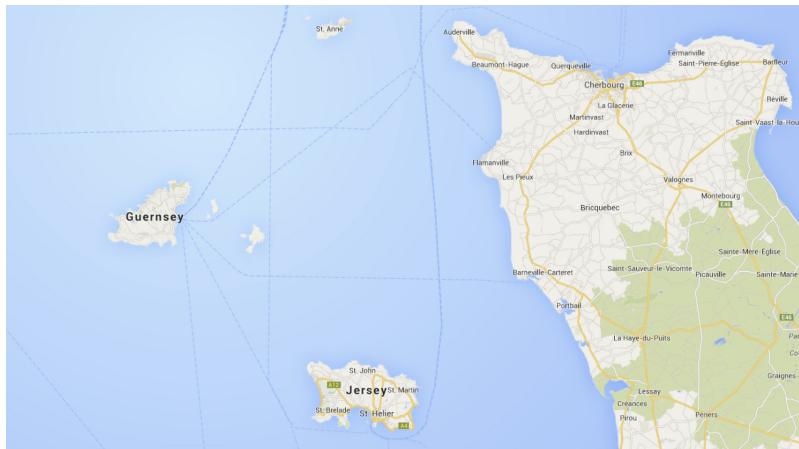
# Maps of your code - Context Diagram



[System Context] Internet Banking System

The system context diagram for the Internet Banking System - diagram created with Structurizr.  
Wednesday, March 22, 2023 at 8:16 AM Coordinated Universal Time

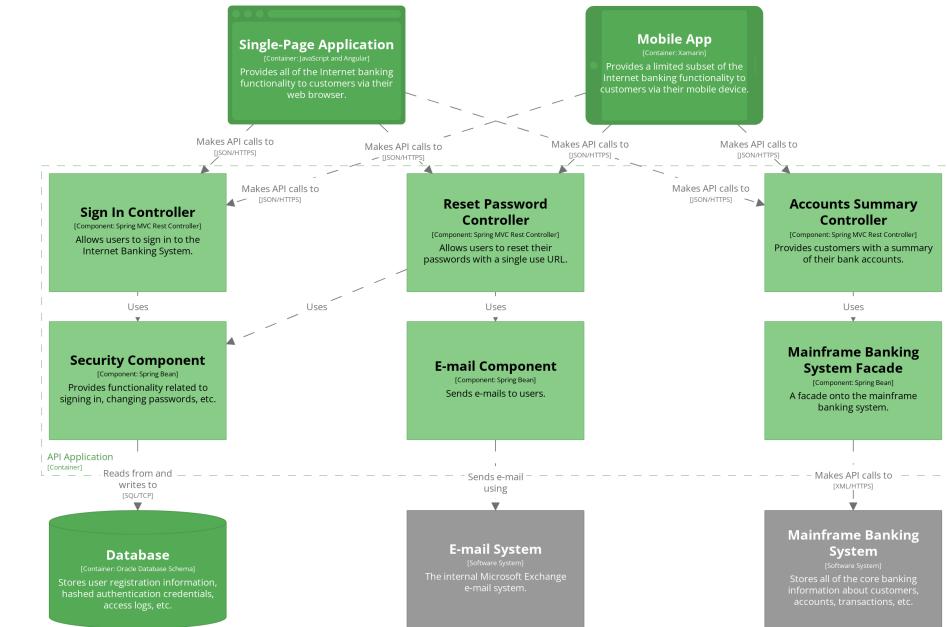
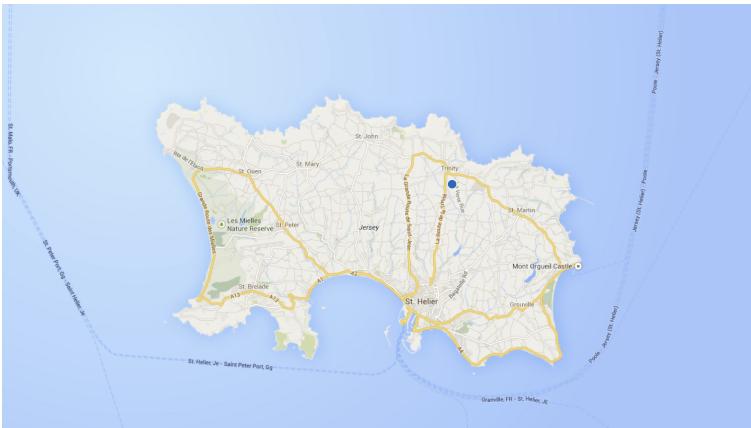
# Maps of your code - Container Diagram



[Container] Internet Banking System

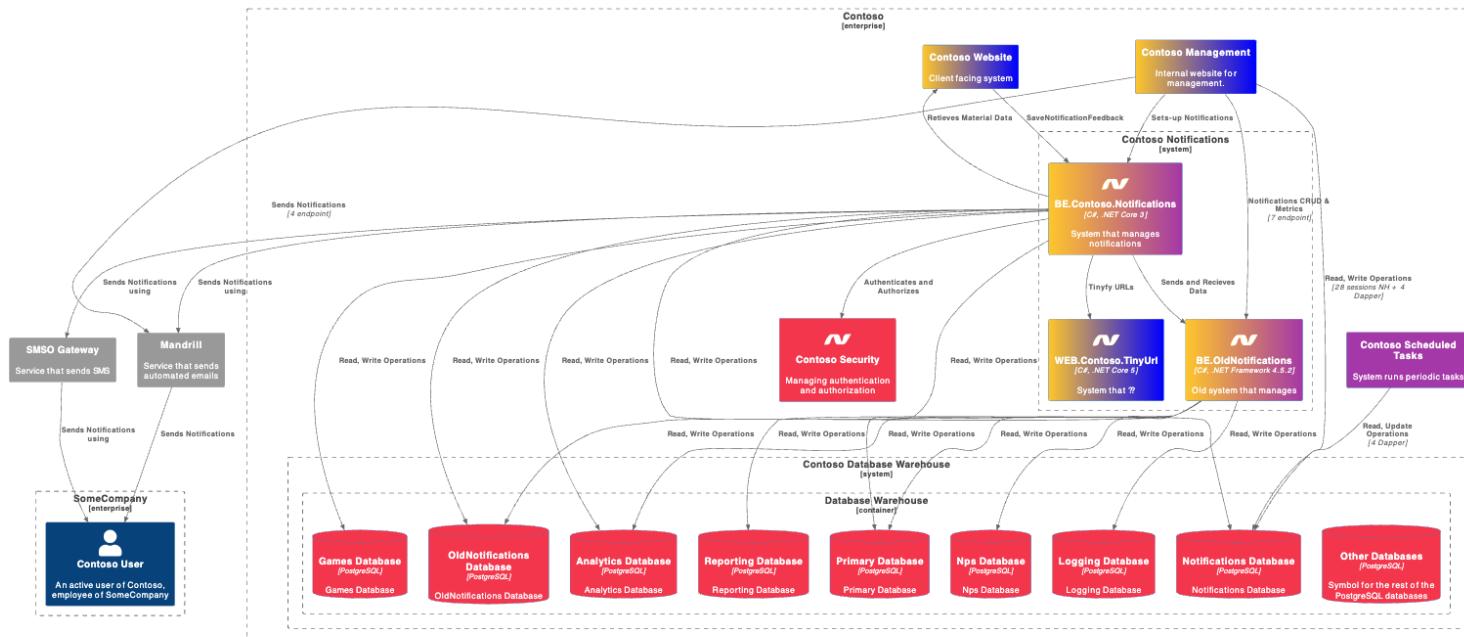
The container diagram for the Internet Banking system - diagram created with Structurizr.  
Wednesday, March 22, 2023 at 8:16 AM Coordinated Universal Time

# Maps of your code - Component Diagram

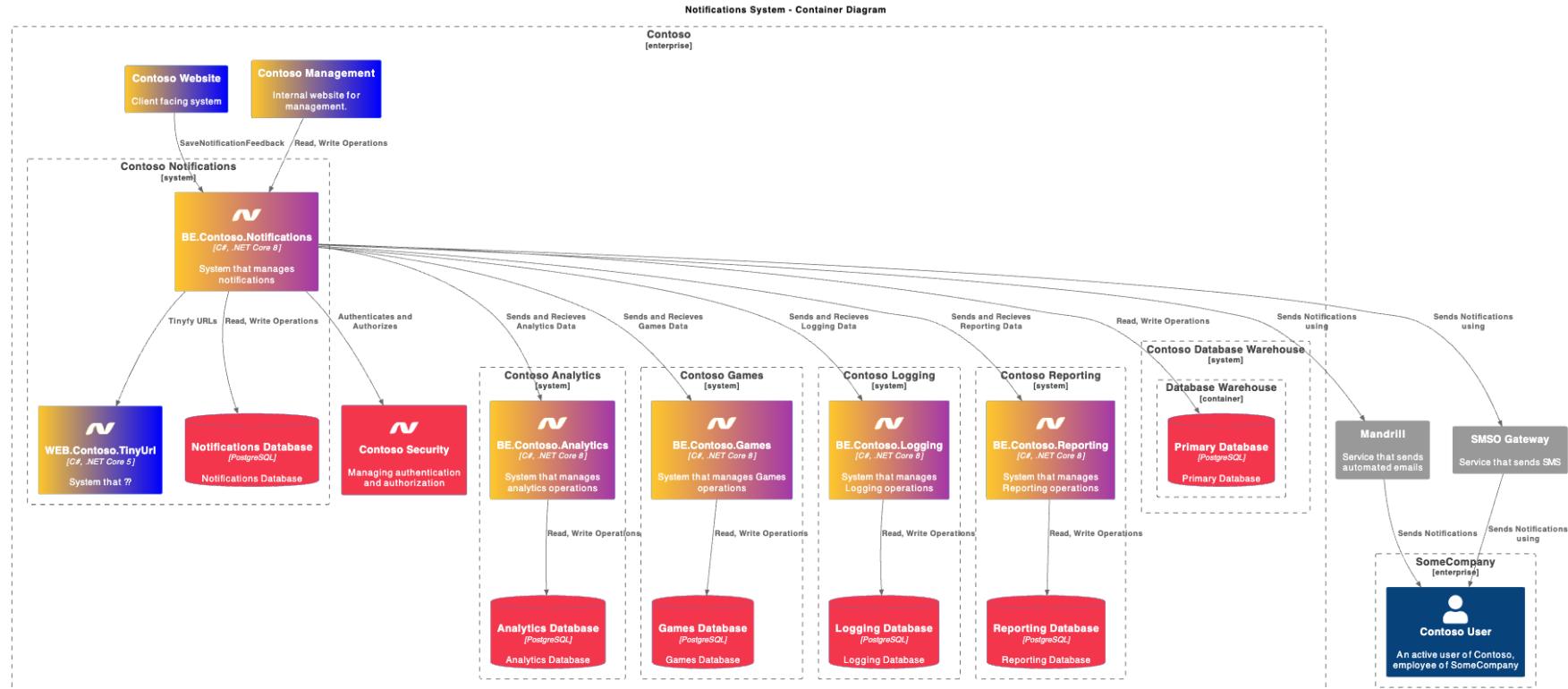


# Real-Case Example

Notifications System - Container Diagram



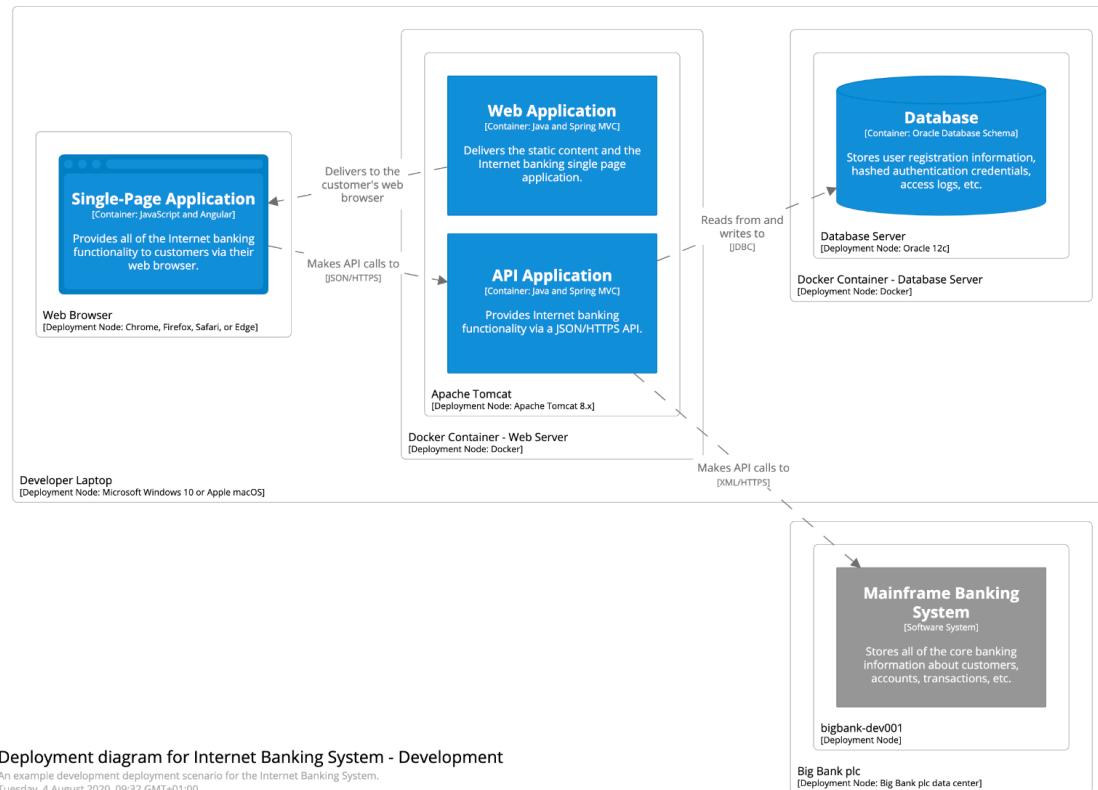
# Real-Case Example



**Legend**

- person
- system
- container
- external system
- enterprise boundary
- system boundary
- container boundary

# Deployment Diagram



Kahoot!

# Demo

# Next time on ...

3.11 - Deadline for Interim Deliverable

Course 6

Please read from *Engineering Software Products* (Sommerville):

- Chapter 6 – Microservices ( p.160-164 )
- Chapter 6.3 - RESTful services (p.183- 189)

