



Design

RESERVATION SYSTEM FOR DIM
GROUP 2 S6-RB03

Version history

Version	Date	Author(s)	Changes	State
0.1				

Distribution

Version	Date	Receivers

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Techstack

Front-end

Technology	Motivation
Single page Application	The API serves a SPA
Vue.js	A lightweight easy to use web component library
Font Awesome	An icon library
Tailwind	A lightweight css utility framework
Axios	A replacement for the native fetch API

Backend

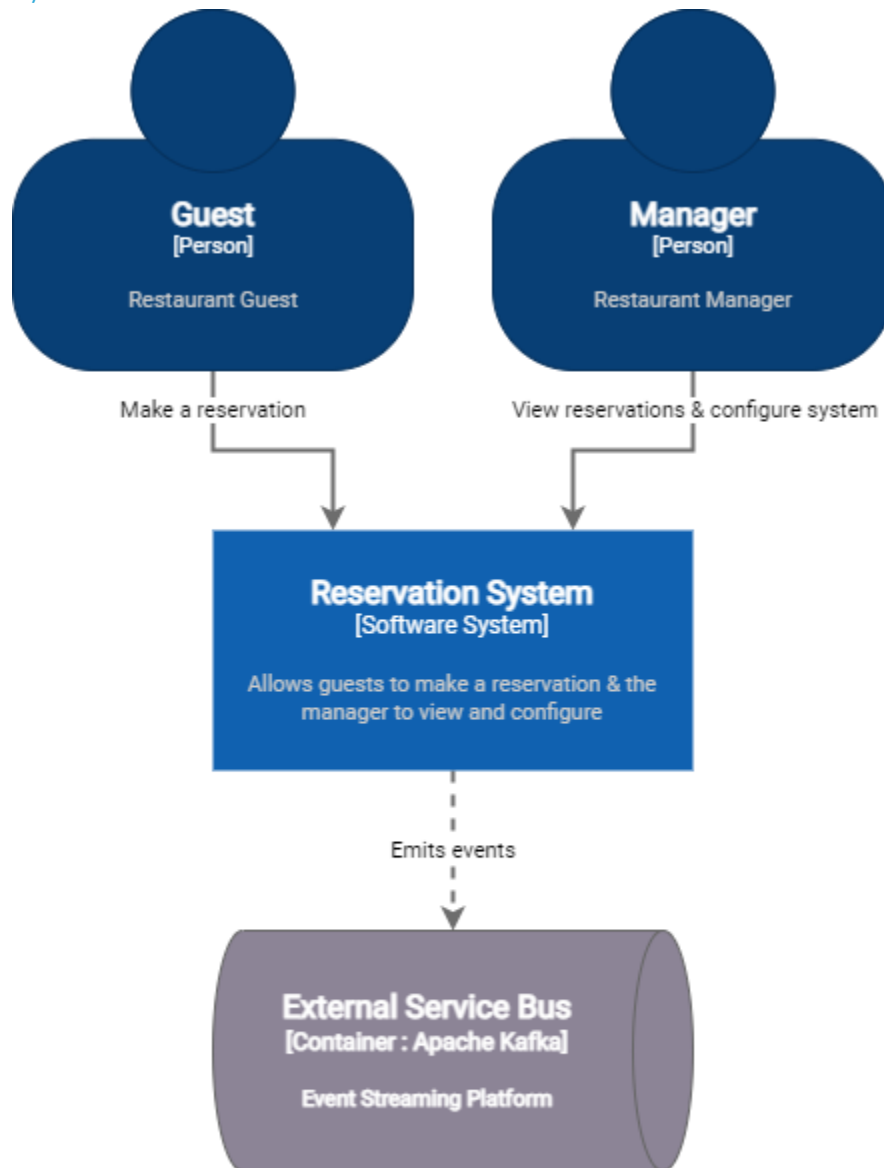
Technology	Motivation
Go	A lightweight & performant language with easy syntax
ScyllaDB	A performant & horizontally scalable database
Gin	A performant REST framework for Go

DevOps

Technology	Motivation
Docker	A standard for containerizing applications
Kubernetes	An open-source container orchestration system for automating software deployment, scaling, and management
GitHub	The version control hosting
GitHub Actions	Automation Tool

C4 Container Diagrams

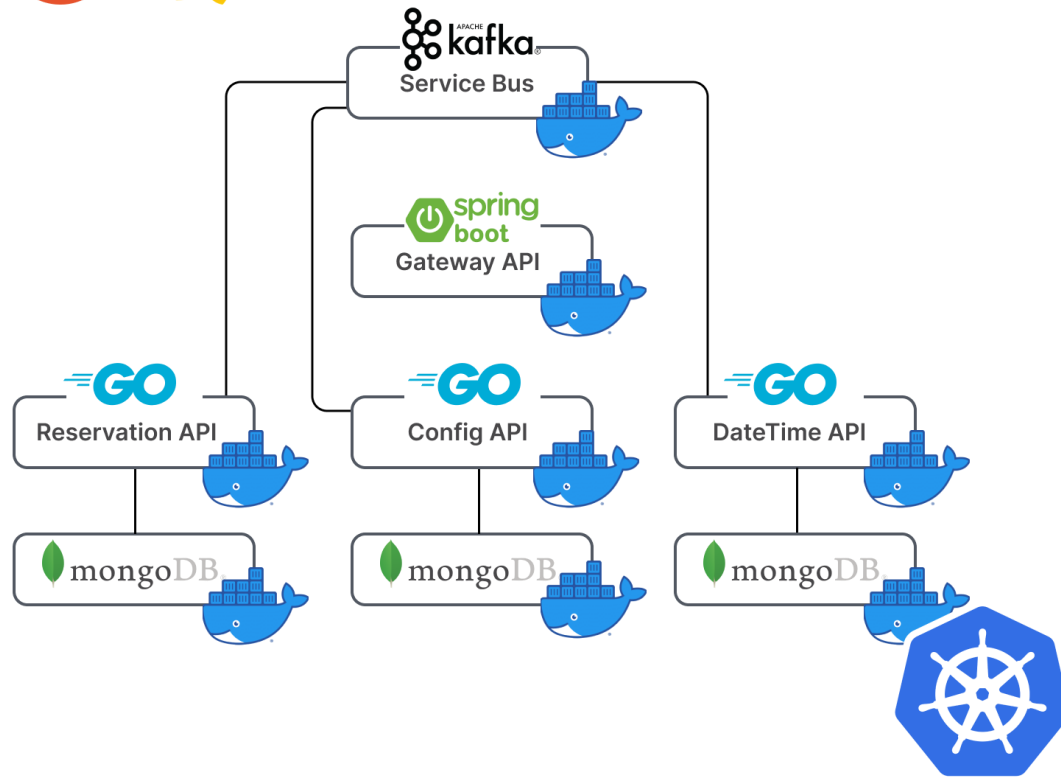
System Context



[System Context] ResIT

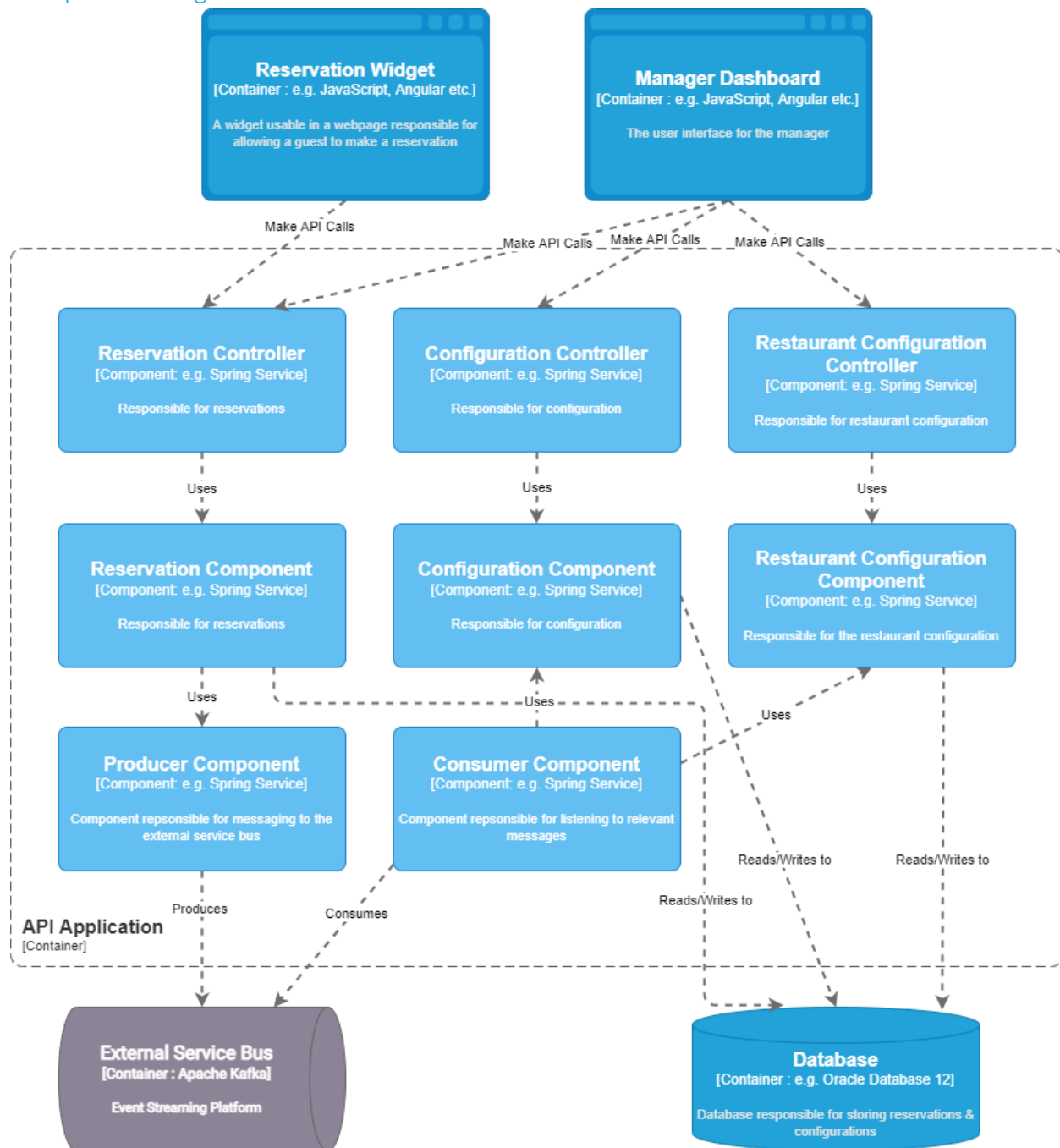
Reservation System Context

Container Diagram



kubernetes

Component Diagram



[Components] ResIT
Reservation Component Diagram