

# k8s\_nemesis

Resources and microservices

# Product description

**Product Description:** A cloud-native service designed to enhance application scalability and performance in Kubernetes (K8s) environments, specifically targeting machine learning (ML) applications with unique scaling and resource requirements.

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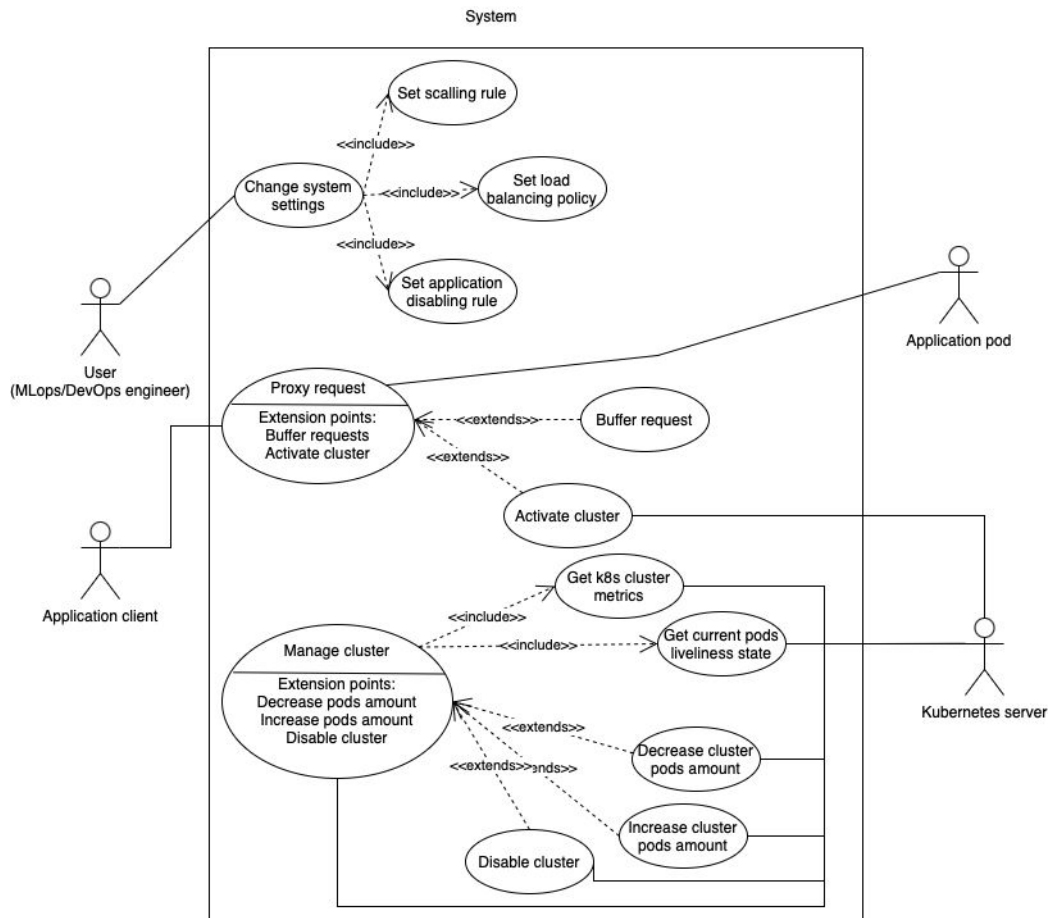
Repo: [https://github.com/Lokhmat/k8s\\_nemesis/tree/main](https://github.com/Lokhmat/k8s_nemesis/tree/main)

Report: [https://github.com/Lokhmat/k8s\\_nemesis/blob/main/task\\_9\\_slides.pdf](https://github.com/Lokhmat/k8s_nemesis/blob/main/task_9_slides.pdf)

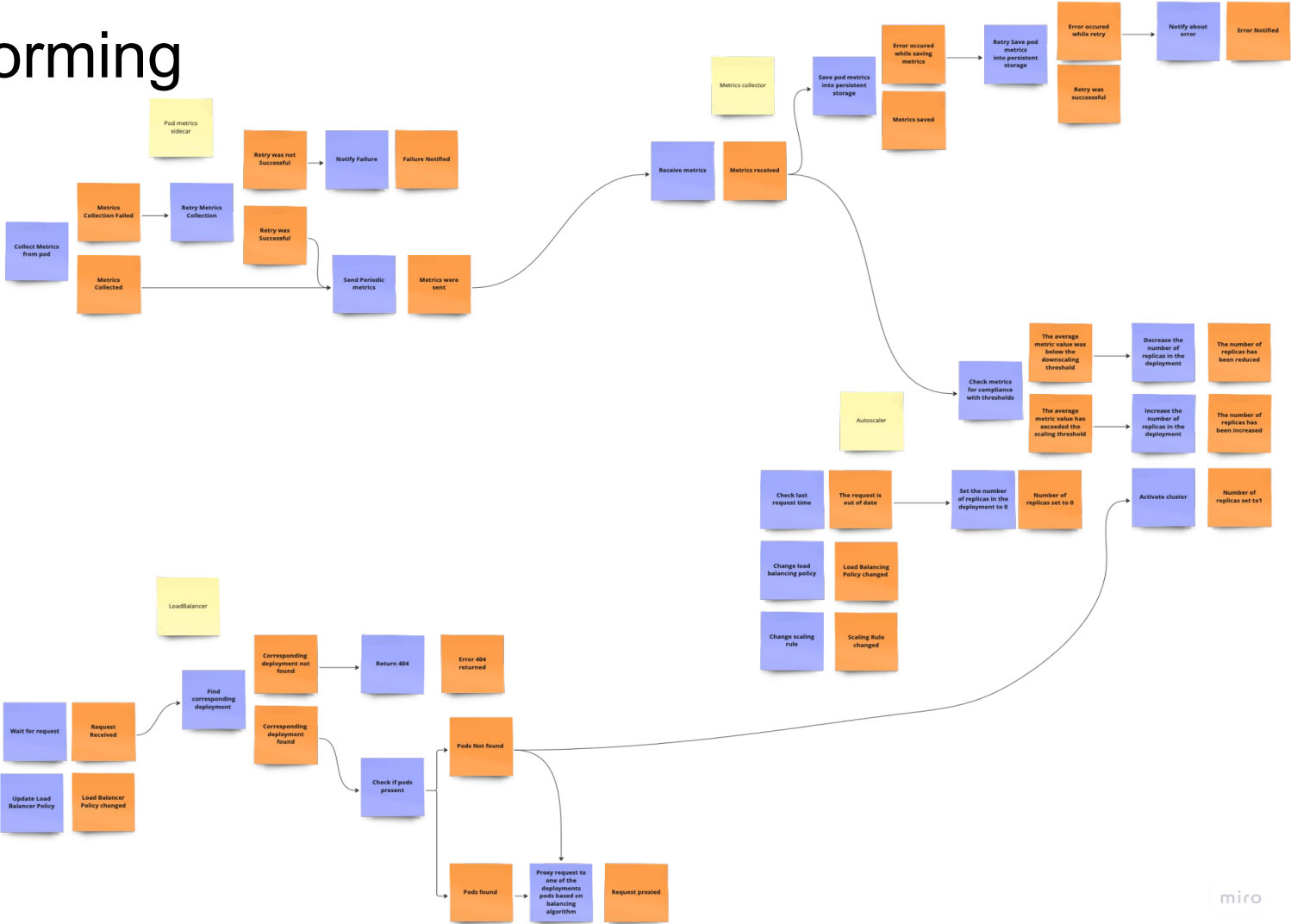
# Use case diagram

Textual use case scenarios:

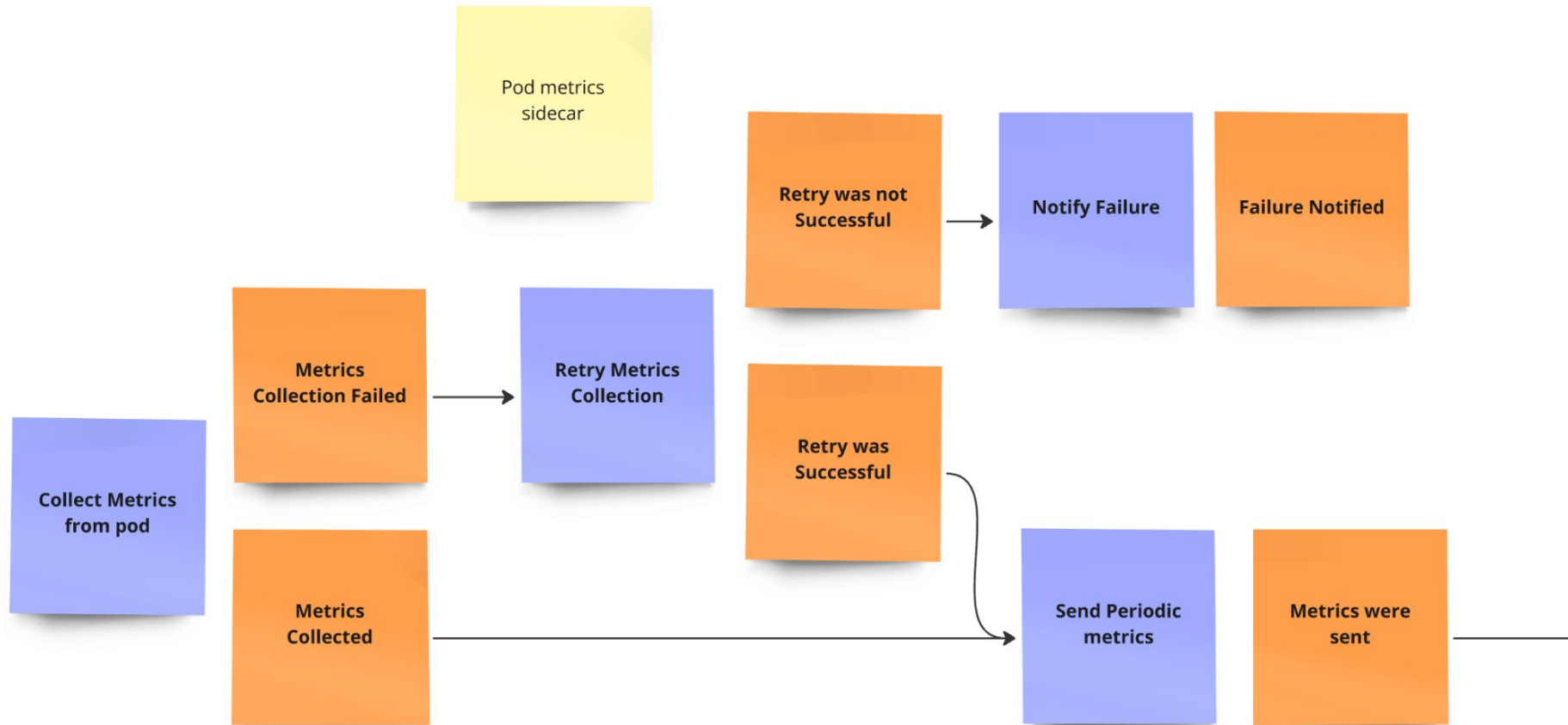
[https://github.com/Lokhmat/k8s\\_nemesis/blob/main/final\\_task\\_materials/textual\\_use\\_cases.md](https://github.com/Lokhmat/k8s_nemesis/blob/main/final_task_materials/textual_use_cases.md)



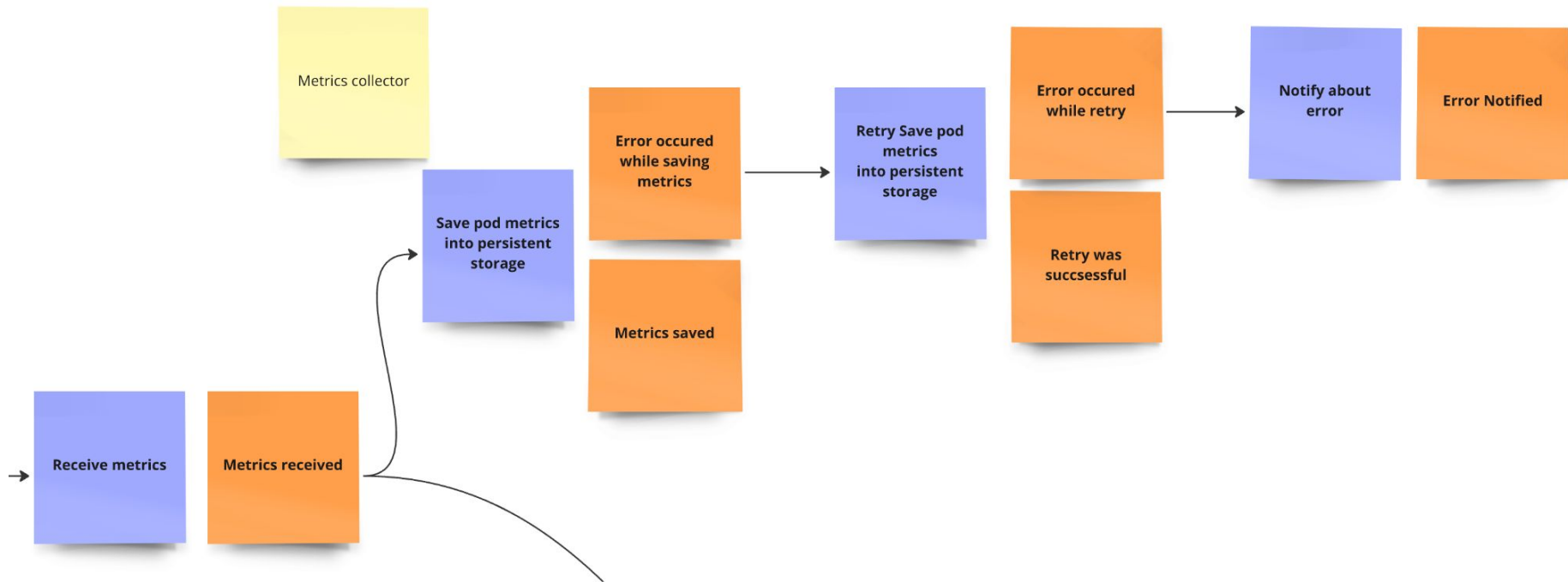
# Event storming



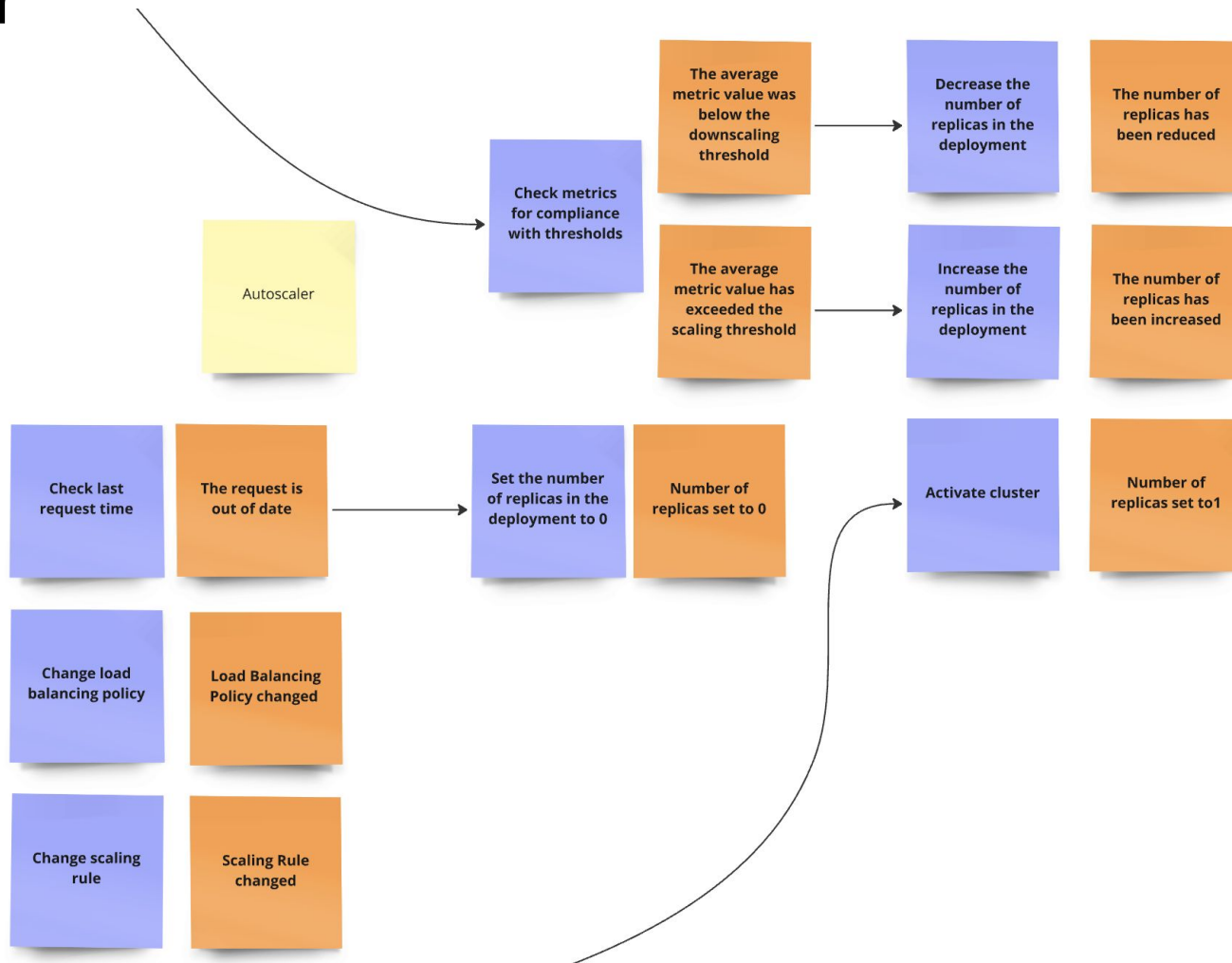
# Sidecar



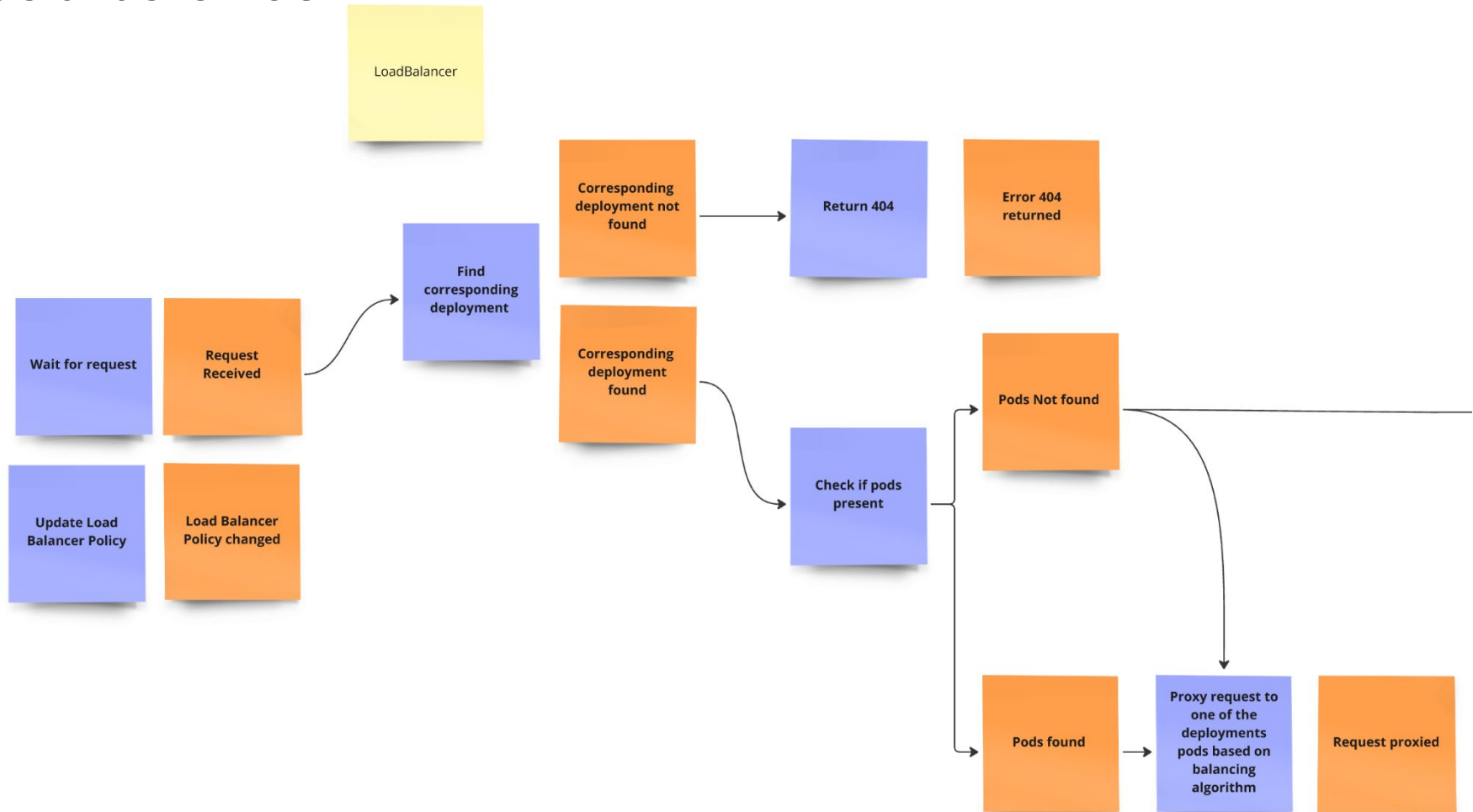
# Metrics collector



# Autoscaler

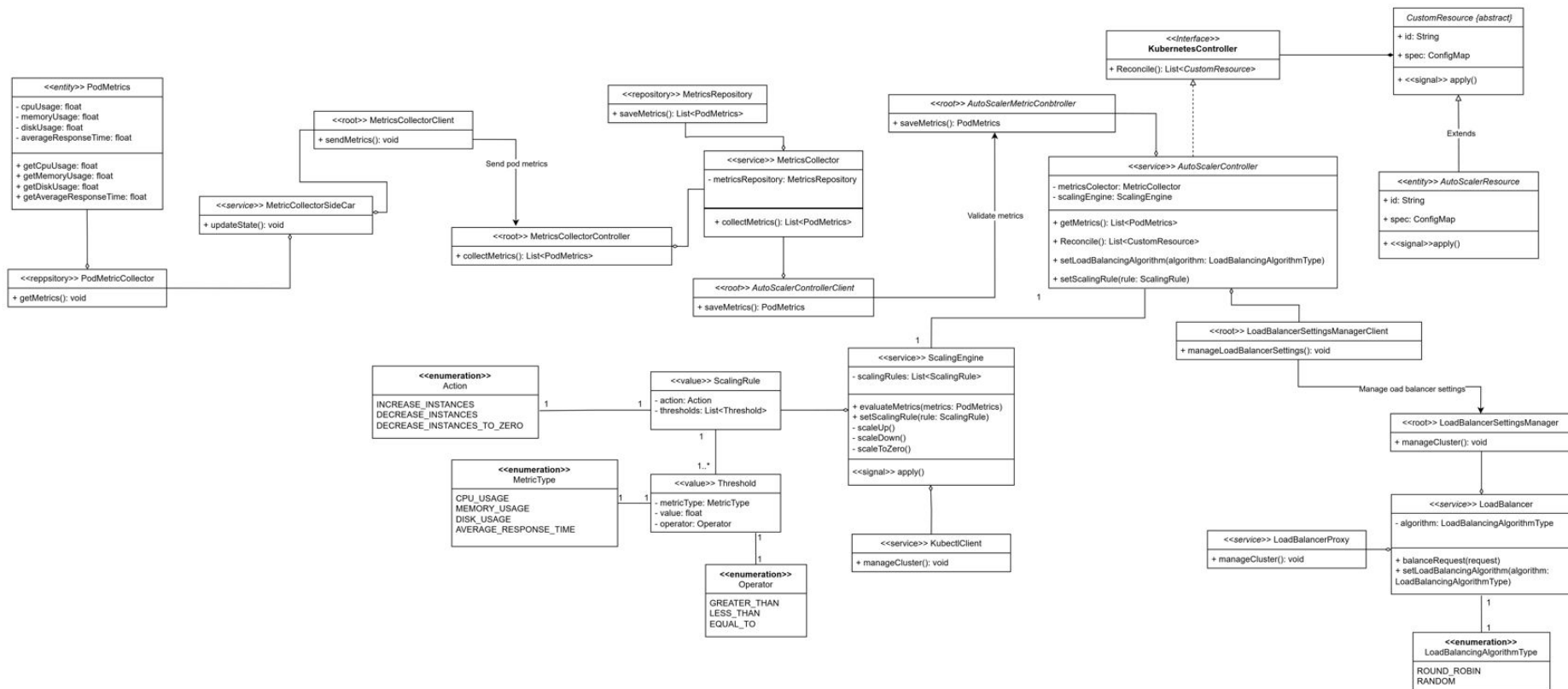


# Load balancer

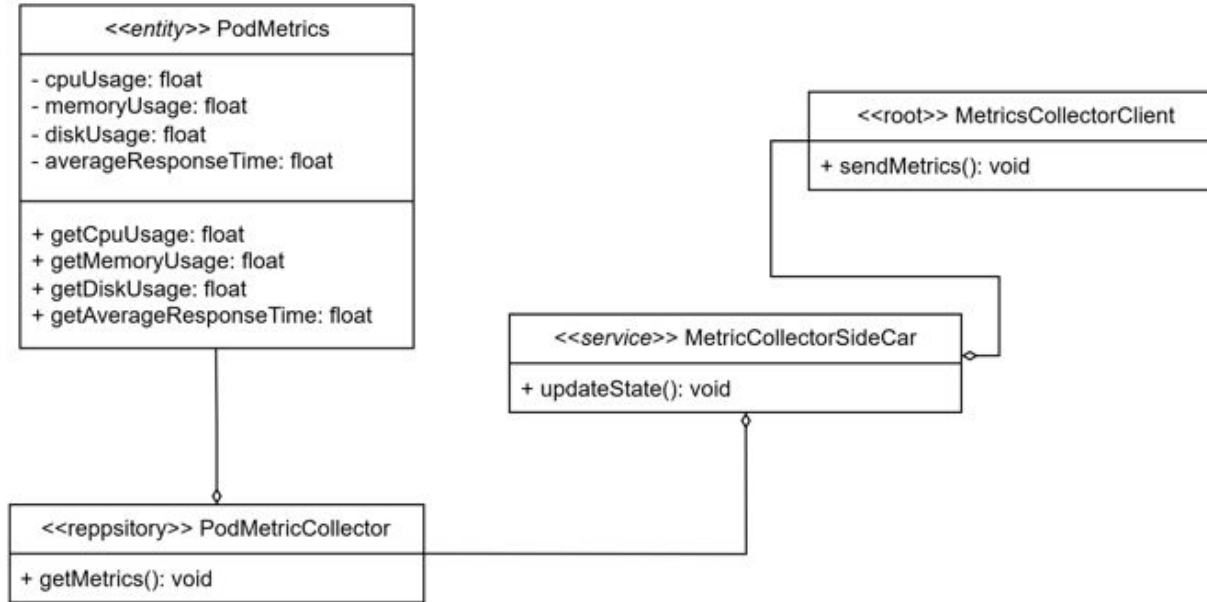




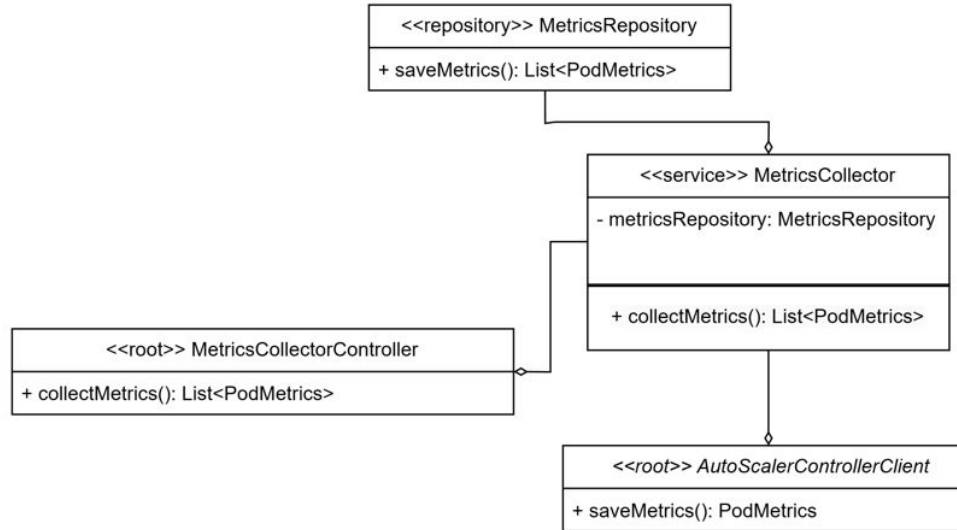
# Full class diagram



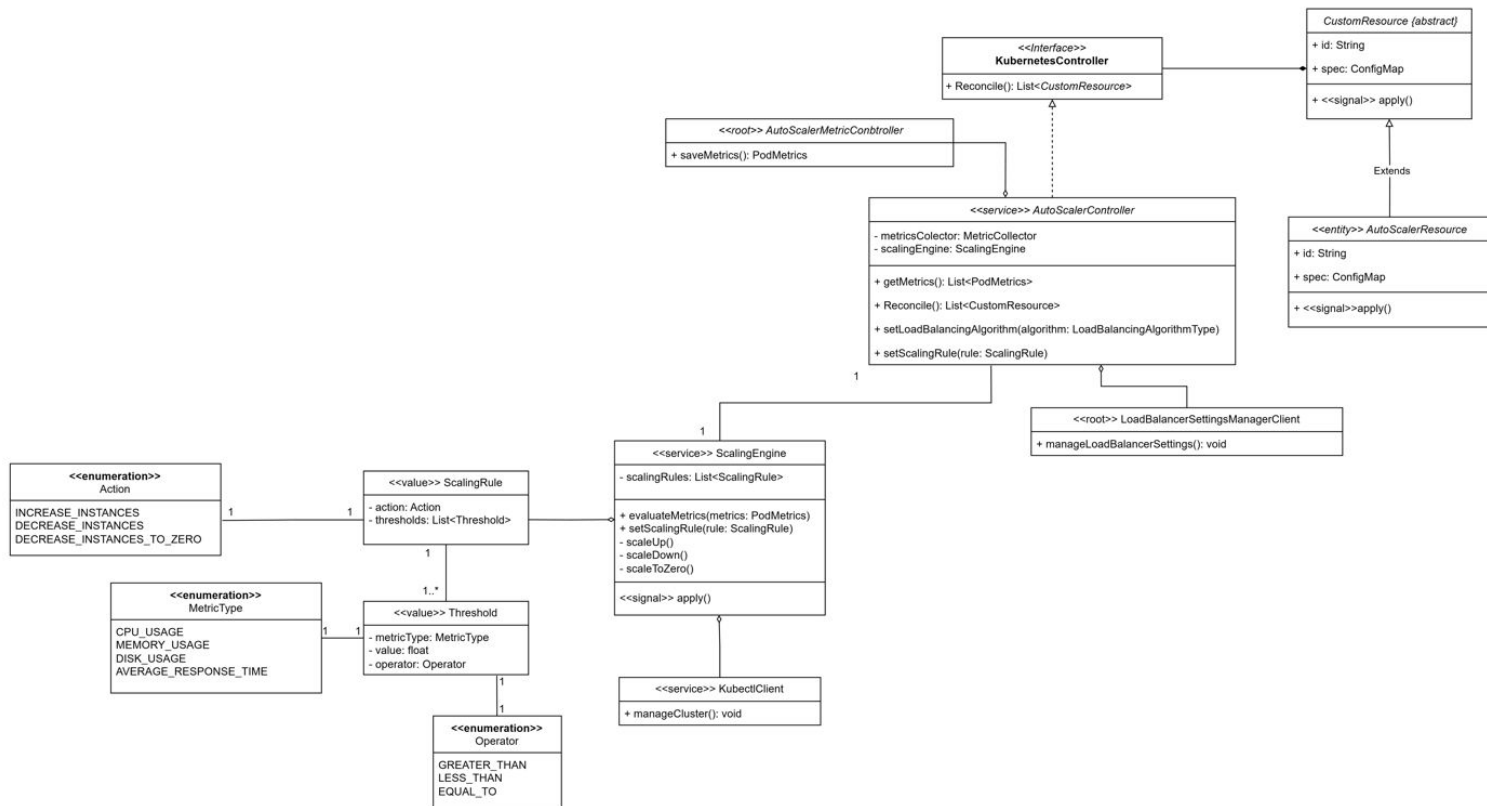
# Detailed class diagram - Aggregate MetricCollectorSideCar



# Detailed class diagram - Aggregate MetricsCollector



# Detailed class diagram - Aggregate AutoScalerController



# Detailed class diagram - Aggregate LoadBalancer

