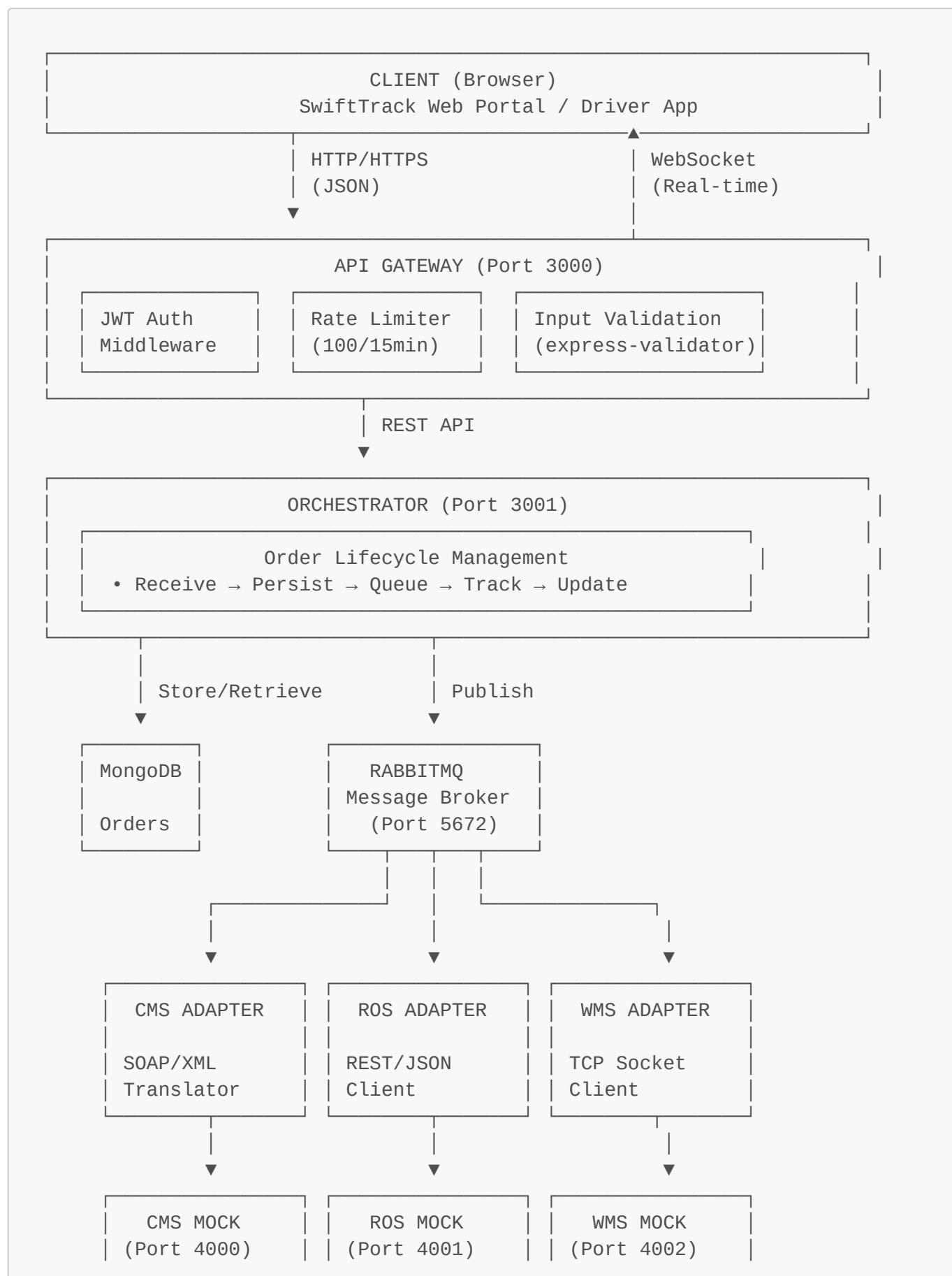
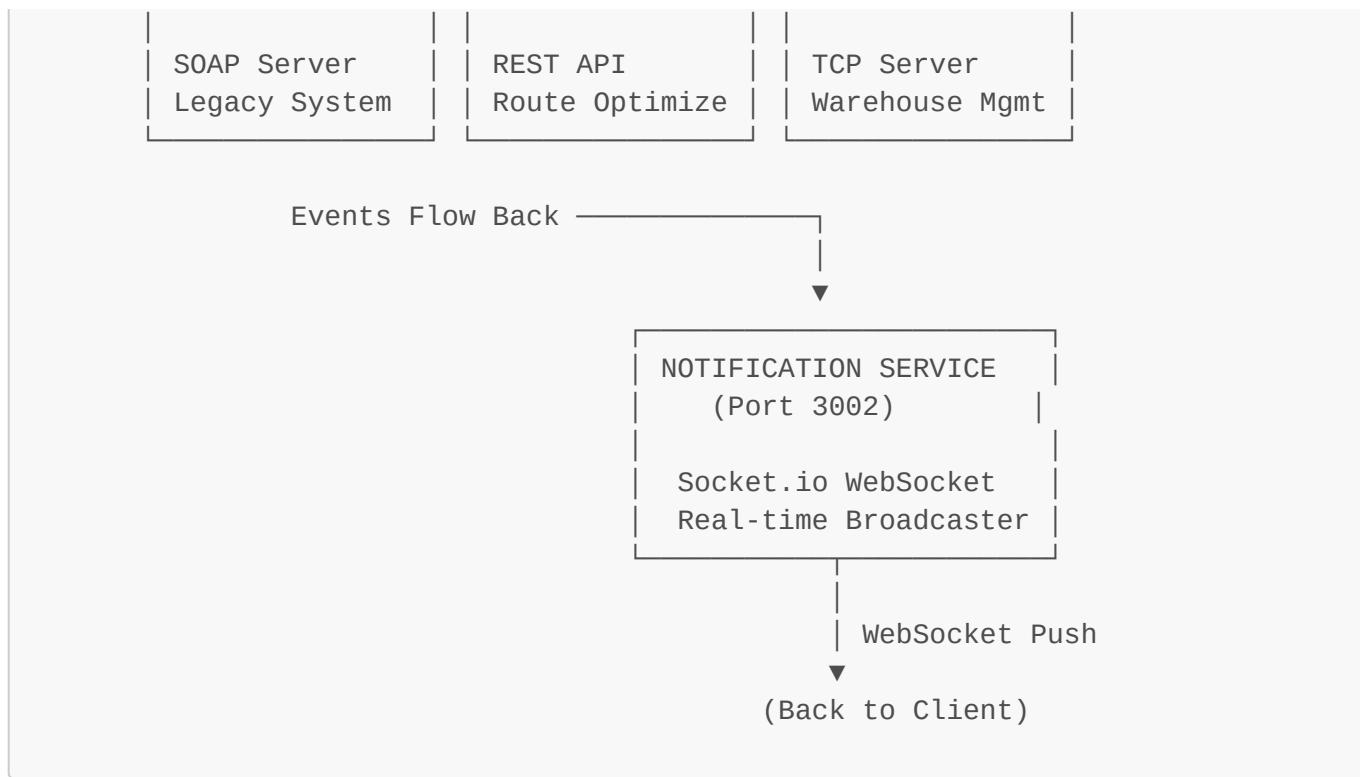


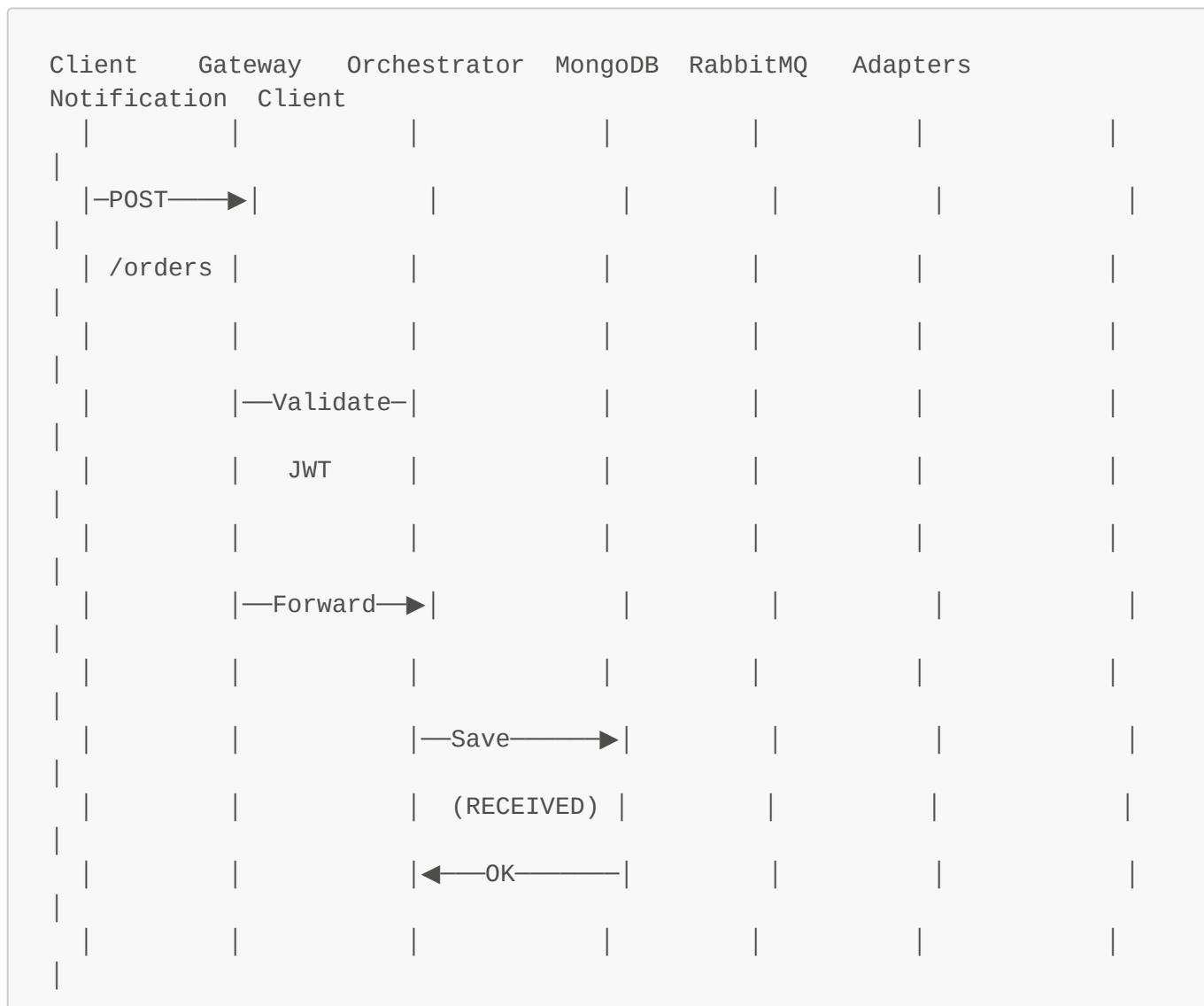
SwiftLogistics - System Architecture Diagrams

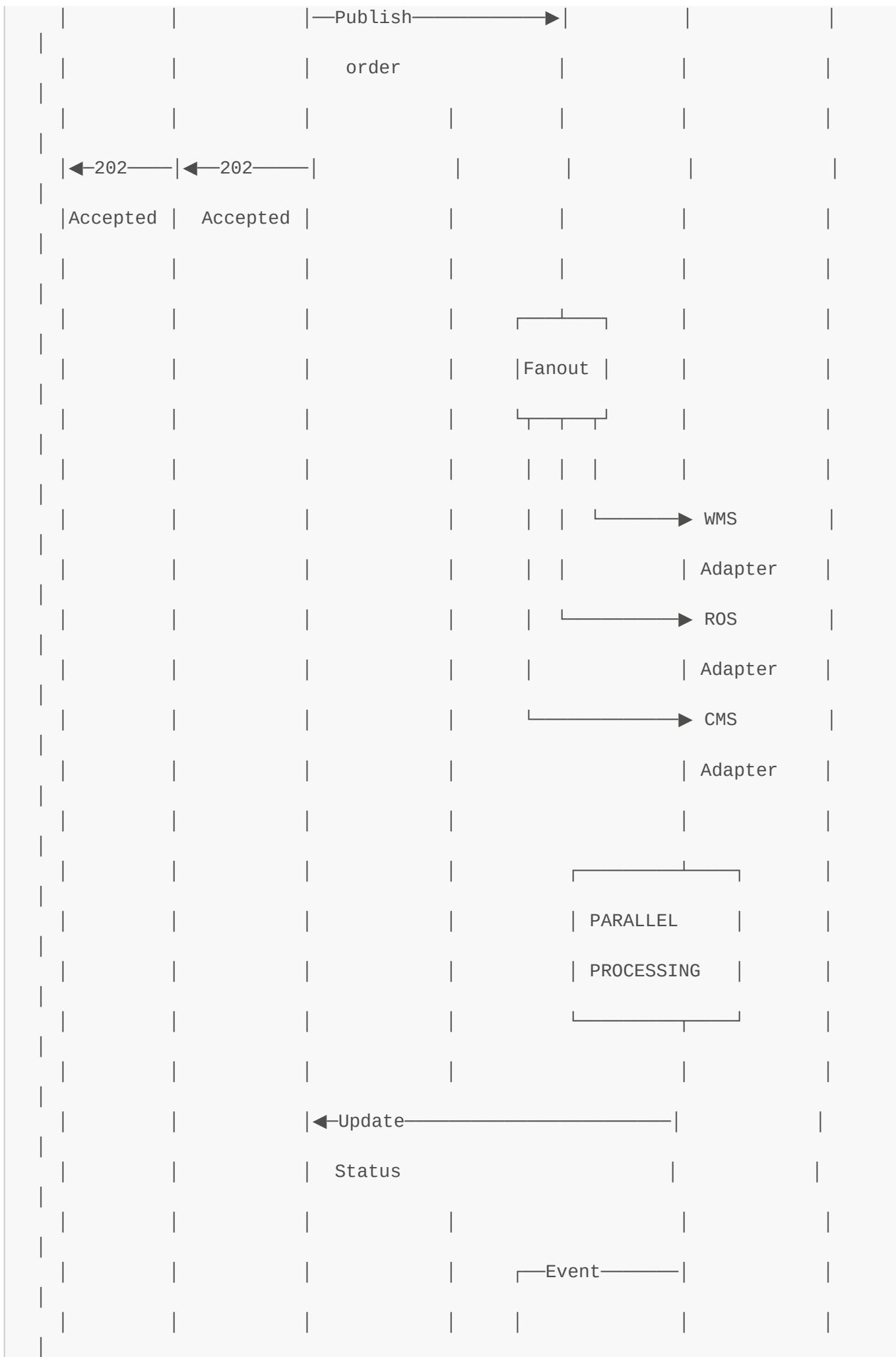
1. High-Level System Architecture

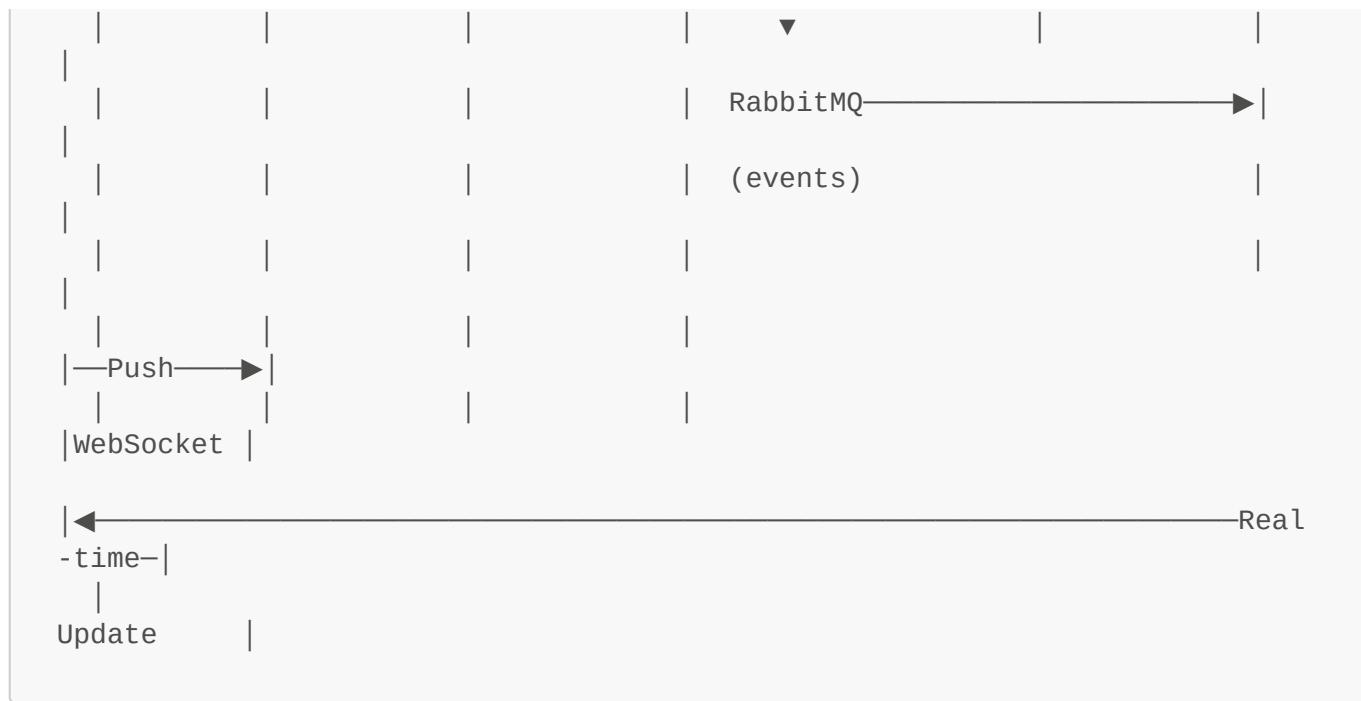




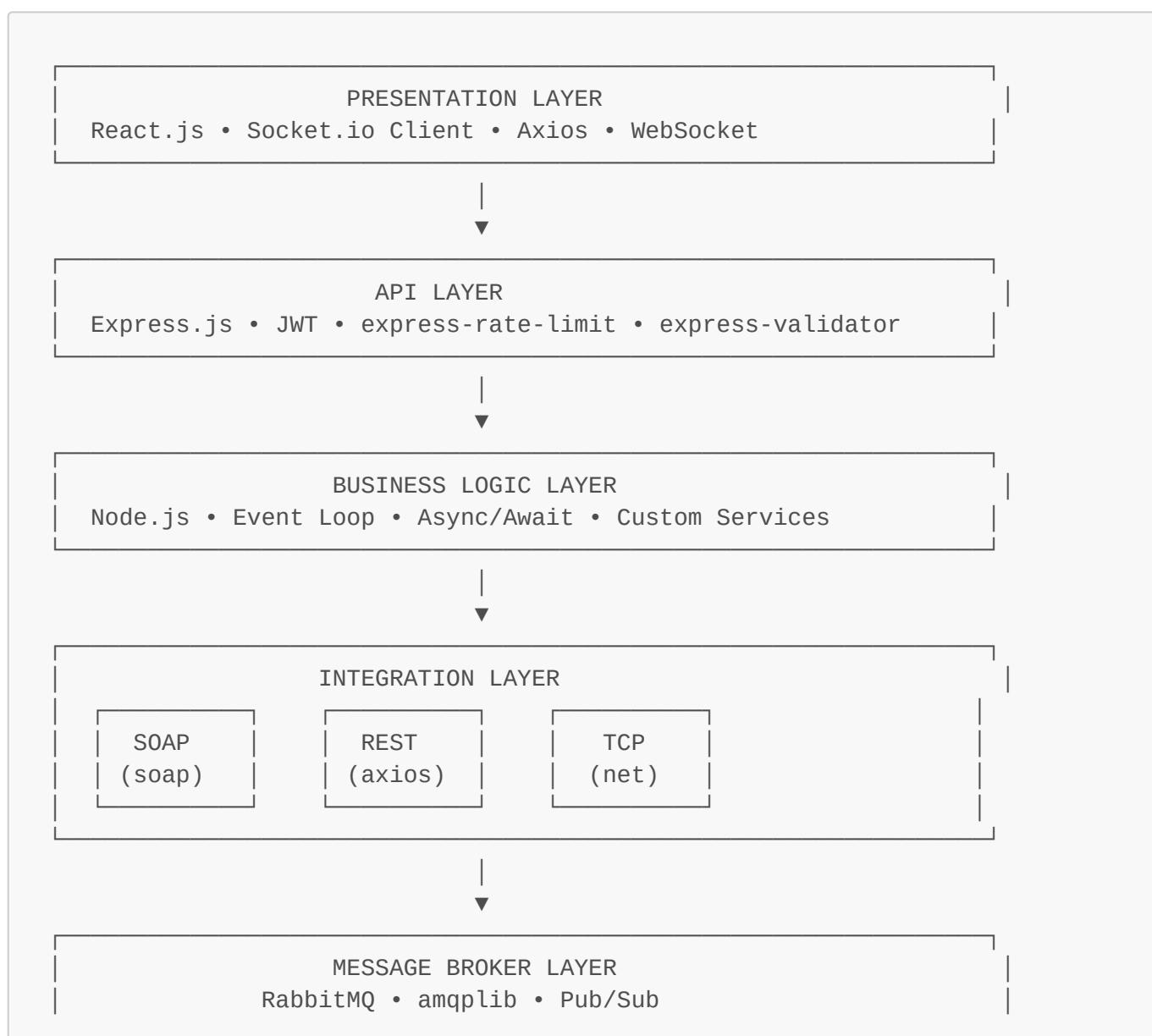
2. Order Submission Flow (Sequence)

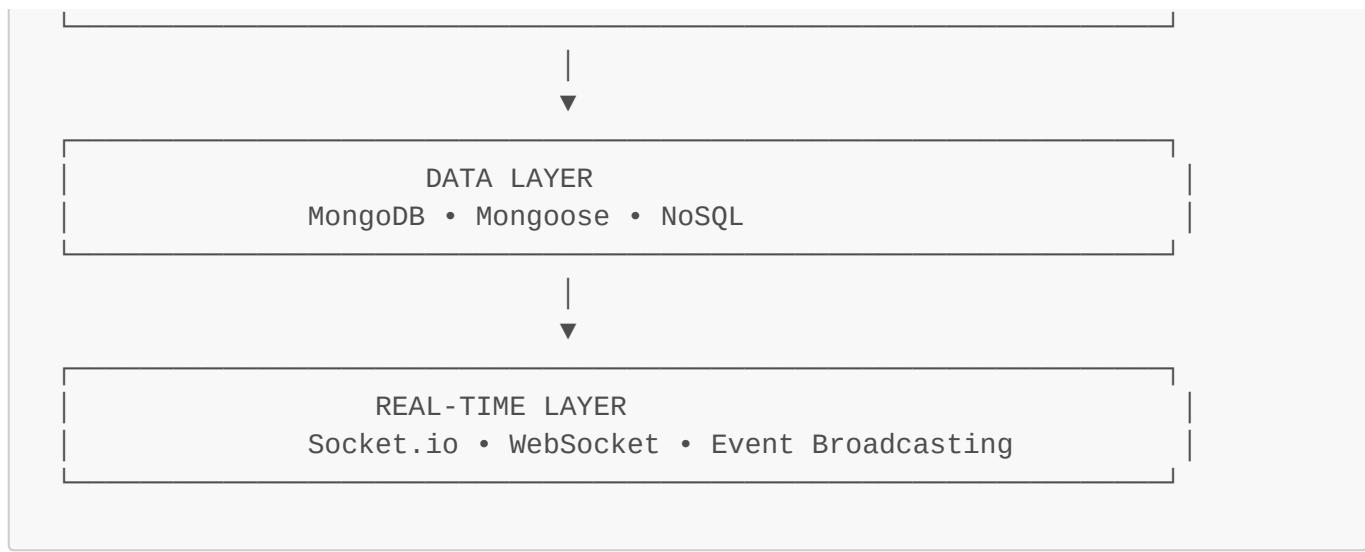




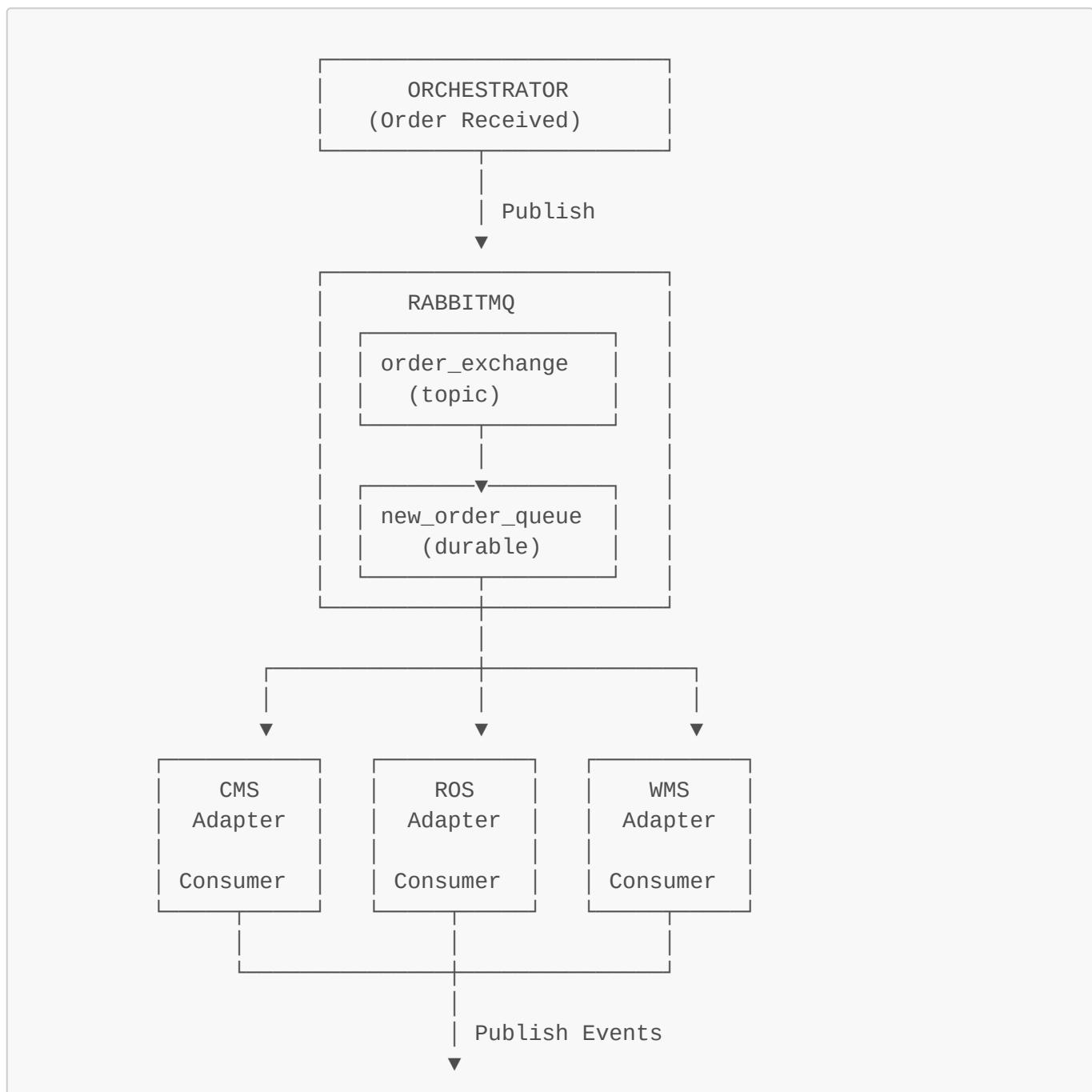


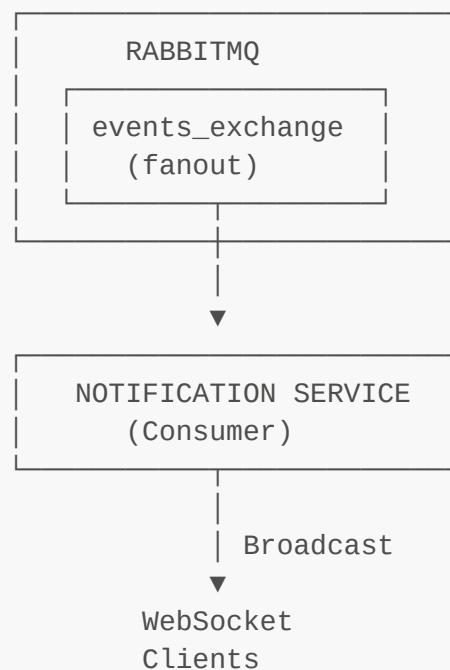
3. Technology Stack Mapping



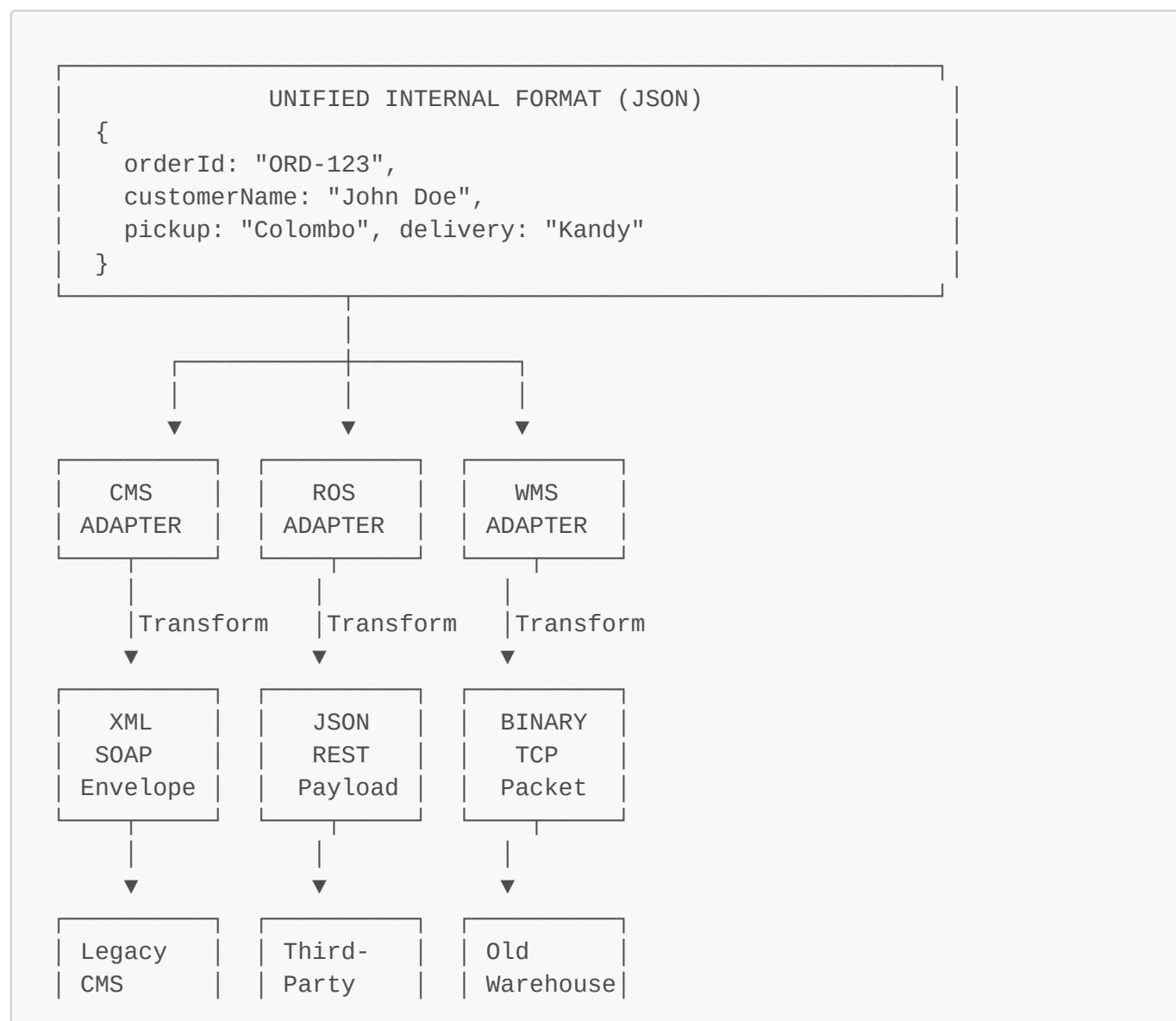


4. Message Queue Pattern





5. Adapter Pattern Implementation





Legend

- Synchronous HTTP Request (blocking)
- -> Asynchronous Message Queue (non-blocking)
- ~~~> WebSocket Real-time Push
- ==> Database Operation

Port Summary

Service	Port	Protocol	Purpose
API Gateway	3000	HTTP/REST	Client entry point
Orchestrator	3001	HTTP/REST	Transaction mgmt
Notification	3002	WebSocket	Real-time updates
CMS Mock	4000	SOAP/XML	Legacy system sim
ROS Mock	4001	REST/JSON	Route service sim
WMS Mock	4002	TCP	Warehouse sim
MongoDB	27017	MongoDB	Database
RabbitMQ	5672	AMQP	Message broker
RabbitMQ UI	15672	HTTP	Admin interface