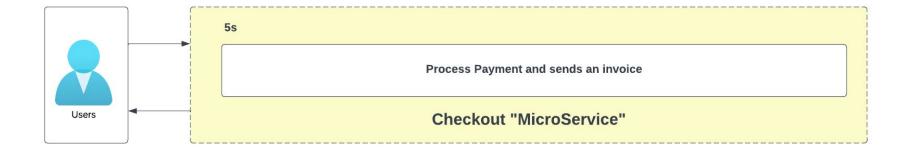
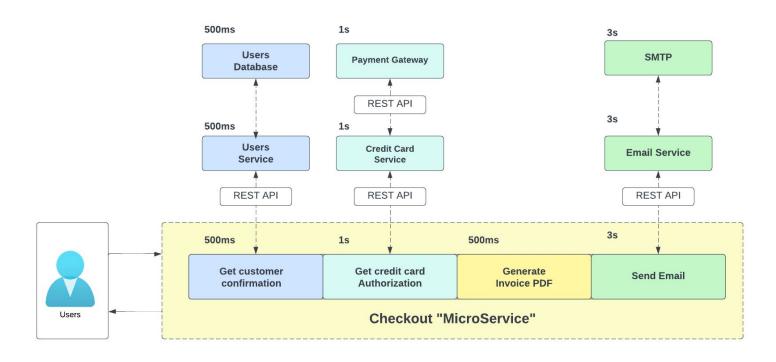


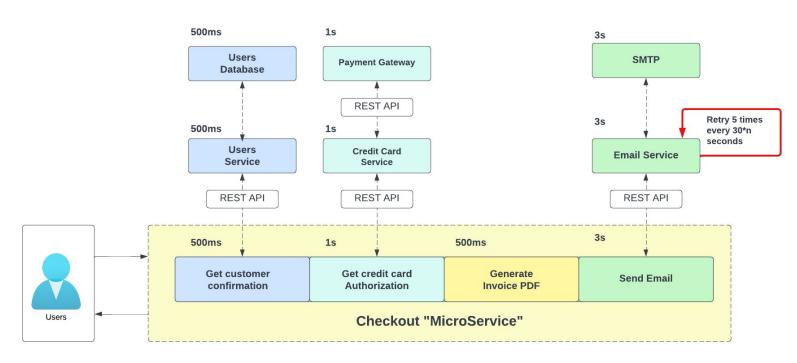
# Microservices

Beyond the REST API









Chained API Calls are expensive

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### The Solution?

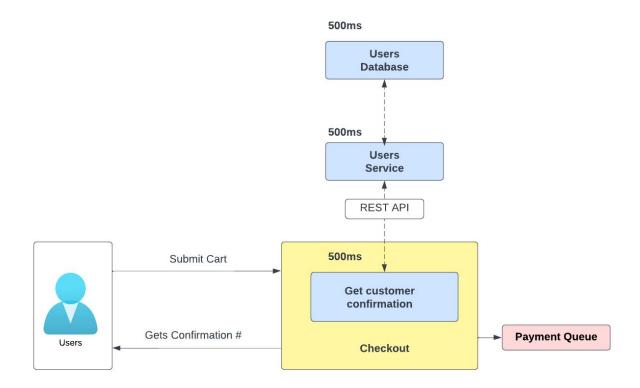




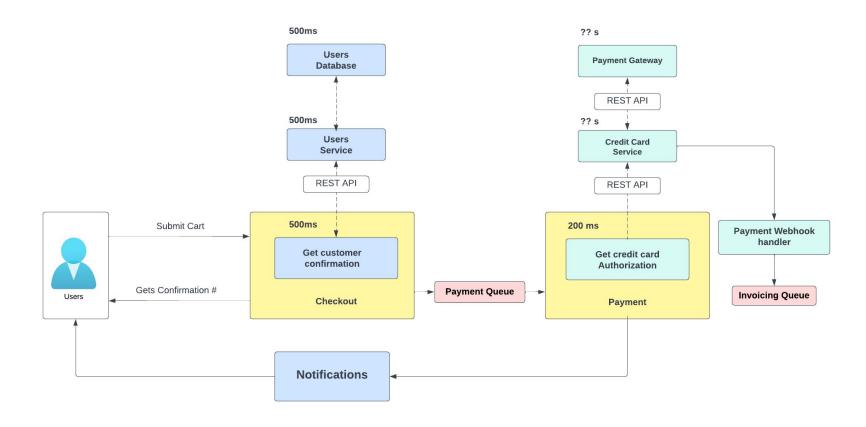


Don't wait at the phone, send a message instead:)

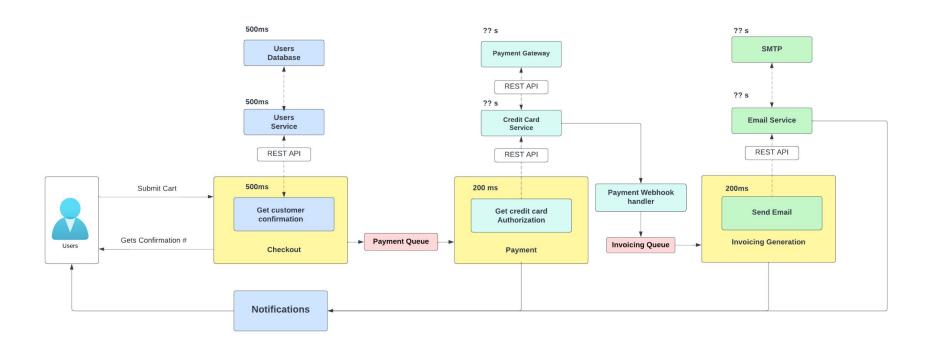
### The Solution



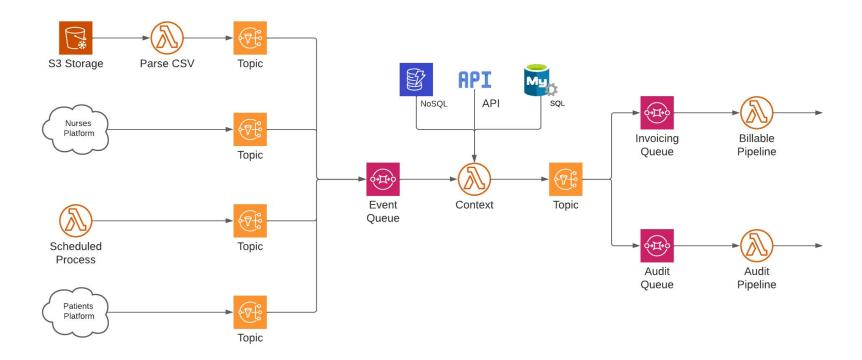
### The Solution



### The Solution



### Real World Scenario



#### MicroProfile...?

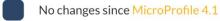
#### MicroProfile 5.0

The MicroProfile 5.0 version is now available! This release is mainly focused on updating dependencies from javax to jakarta.

MicroProfile 5.0 Presentation







#### MicroProfile...?

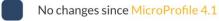
#### MicroProfile 5.0

The MicroProfile 5.0 version is now available! This release is mainly focused on updating dependencies from javax to jakarta.

MicroProfile 5.0 Presentation







## MicroProfile - Open Tracing

```
@Traced
String getMessage() {
    return message.get();
}
```











## MicroProfile - Useful extra specs













## Quarkus - Reactive Messaging

```
@Channel("quote-requests")
Emitter<String> quoteRequestEmitter;
@POST
@Path("/request")
@Produces(MediaType.TEXT_PLAIN)
public String createRequest() {
    UUID uuid = UUID.randomUUID();
    quoteRequestEmitter.send(uuid.toString());
    return uuid.toString();
```

#### Good to know

- Event-Driven and CDI based
- Eclipse MicroProfile Reactive Messaging
- Kafka -e.g. MKS-
- AMQP (RabbitMQ)
- MQTT

Java0ne

#### Helidon - LRA

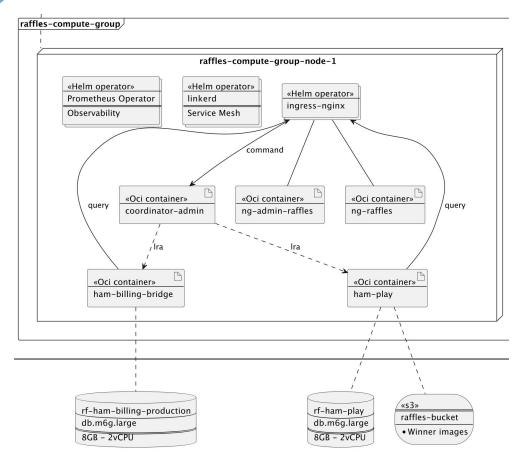
```
@Compensate
public void compensate(URI lraId)
```

#### Good to know

- Coordination of long running activities
- E.g. -SAGA patterns-
- Eclipse MicroProfile LRA
- JAX-RS compatible but not required

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### Real World Scenario - LRA



- LRA = SAGA -Orchestration-based
- In the past XA Transactions
- Only if eventual consistency is not an option
- LRA could go through message brokers and queues

### Thank You!



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**Victor Orozco** 

**@tuxtor** Nabenik