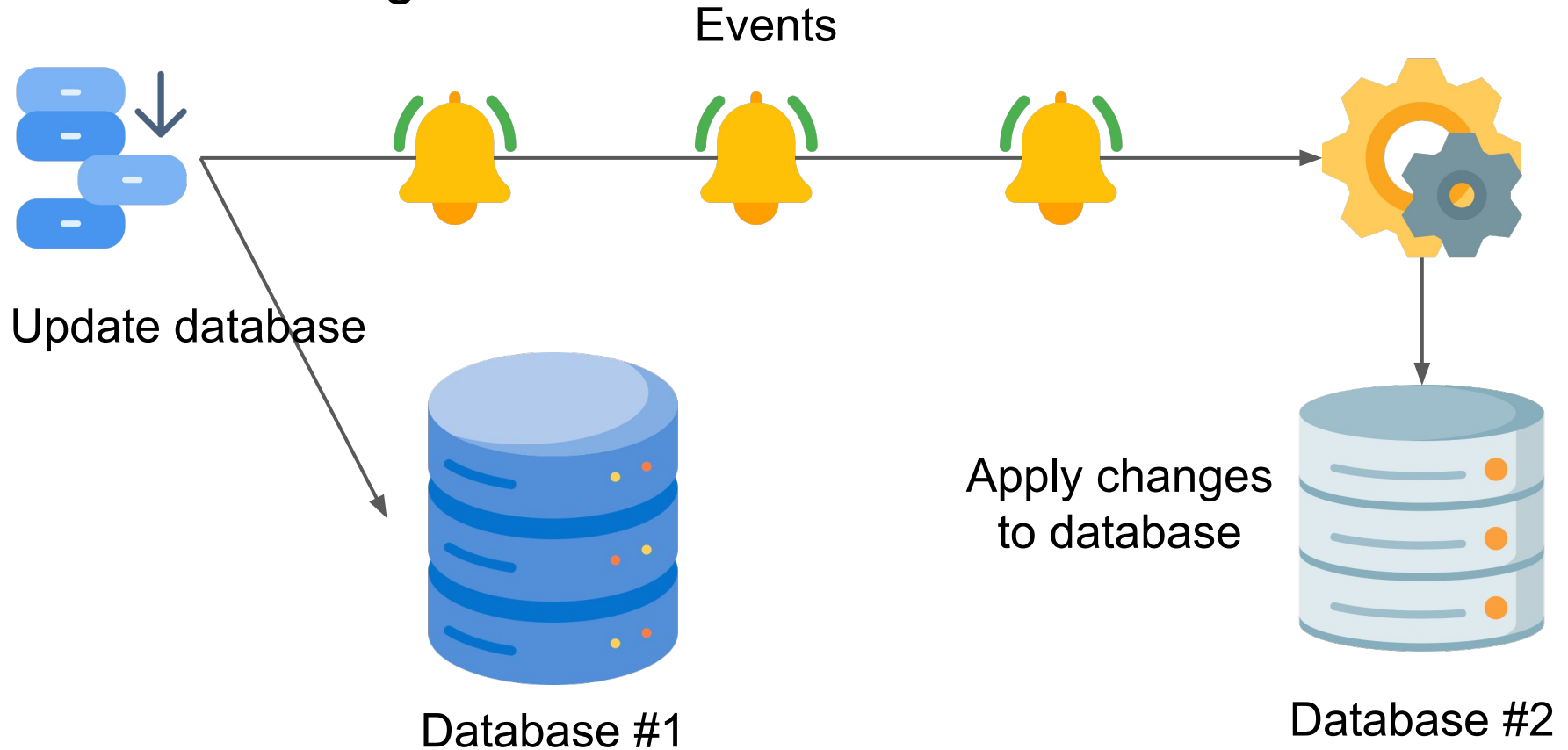


# Event Sourcing

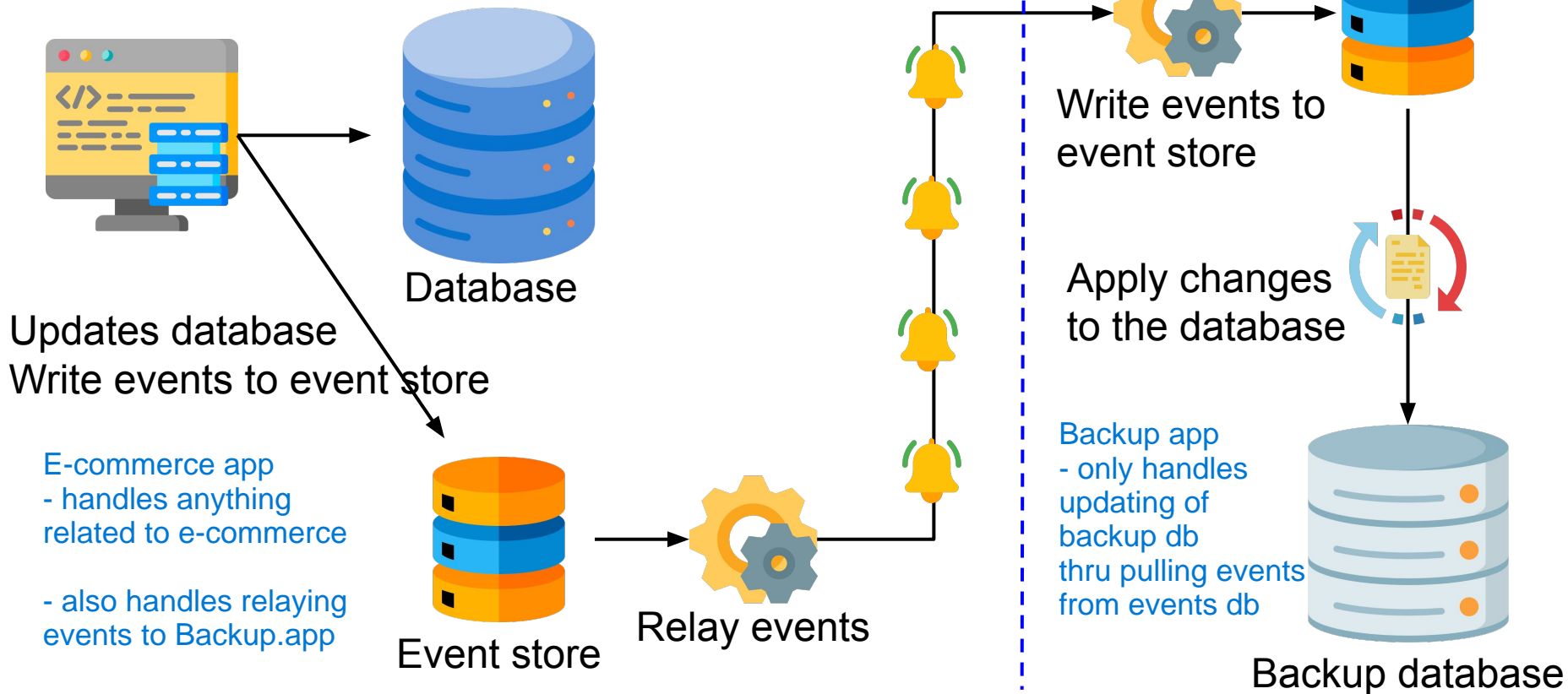
# What is it?

- A software architecture
- The state of a system is determined by a sequence of events.
- Storing just the current state of the data, event sourcing involves storing all the events that lead to the current state.

# Event Sourcing



# Architecture



# Events



```
insert into customer(name) values ("fred")
```



```
event_id: abc123  
timestamp: <timestamp>  
ops: ADD  
fields:  
- name = fred  
table: customer
```

# Task

Set up 2 databases for the e-commerce application

- Main database and backup

Complete the e-commerce application

Use eventual consistency strategy to keep the backup database in sync with the main database

You may create any additional Spring Boot application