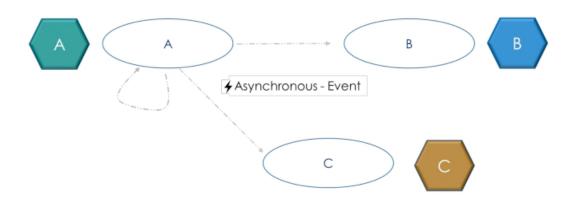
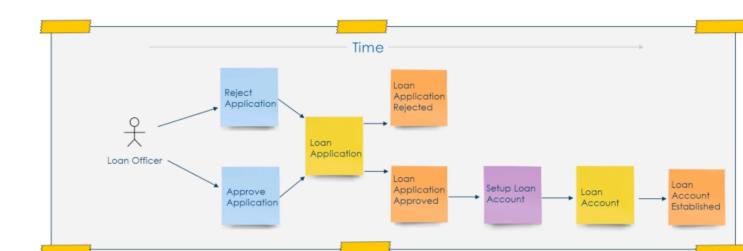
Events occur naturally in Domains

To understand the domain, one MUST understand the events produced and consumed in the domain



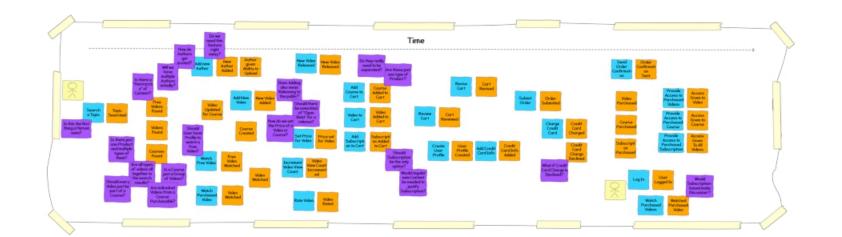
Collaborative Exercise

Objective is to identify the Events, Producers & Consumers in a given scope, to create a shared understanding of the domain



Workshop

May be carried out in person or online using collaboration tools



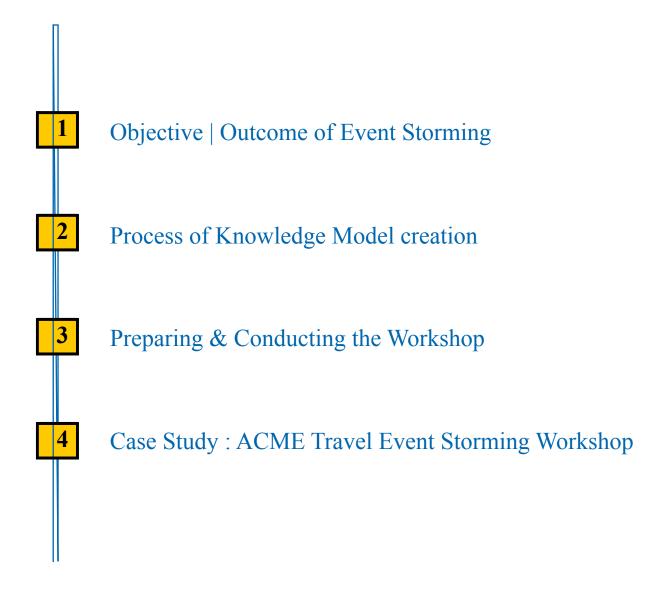


https://www.miro.com

Conducting the workshop

MUST be carefully planned and conducted to realize value

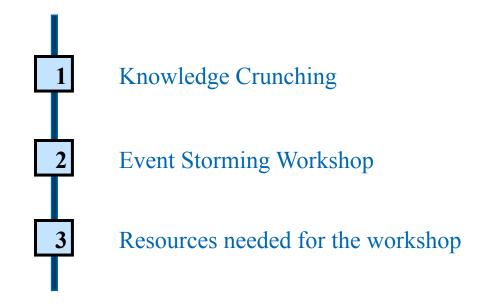
- Setup the room | tools
- What is event storming?
- What is the scope?
- What is the expected outcome?
- 5 Dive in ©



Introduction to Event Storming

What is it?



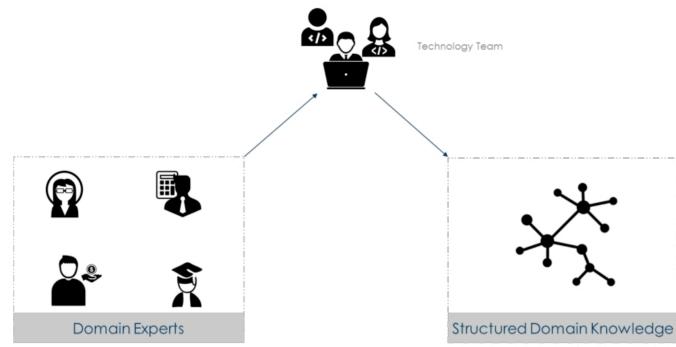


Knowledge Crunching



Teams process the knowledge received from the Domain Experts into domain models

This process is referred to as Knowledge Crunching

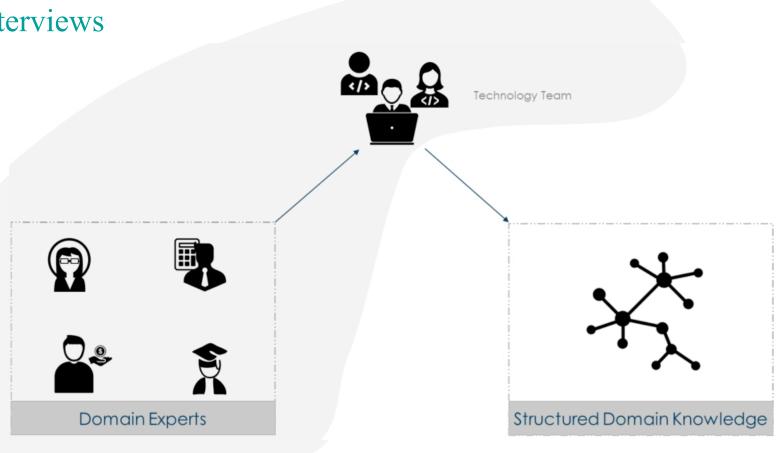


How do you receive the knowledge?

· Business SME Interviews

· Design Thinking

· Event Storming









A collaborative workshop - based technique for creating a shared understanding of complex business domains | processes

· Big Picture View

· Focused on a part

History

Originally created by Alberto Brandolini in 2012

· A very well accepted practice in the DDD community

· Accelerates development

Introducing EventStorming

An act of Deliberate Collective Learning



The deepest tutorial and explanation about EventStorming, straight from the inventor.



· Not a replacement for UML

Workshop

Invite the right set of domain & IT experts



Loan Officer



Bank Products

· Dedicated facilitator with prior experience with Event Storming

· Number of participants between 4 & 8 (for process level)

Workshop duration

Depends on the scope

· Couple of hours

· Couple of days

Where to conduct the Workshop

In person workshop preferred over online

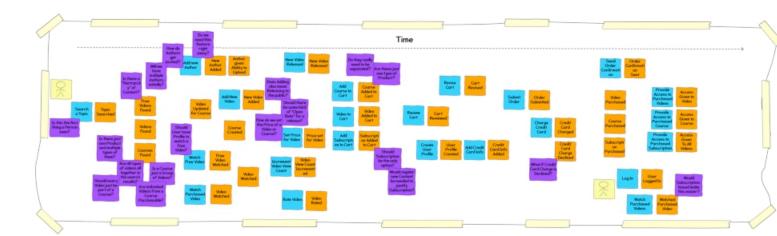
· Online has become more common & acceptable

In person workshop

A workspace with walls to hang the plotter paper

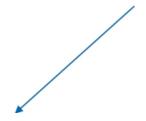
· Unlimited modeling space

· Stickies of multiple colors



Tools for Remote teams

Participants join over a video call & use a collaboration platform



· Participants can make changes to common virtual board





https://www.miro.com

https://www.mural.co

Expected output

Create a shared understanding of the business process

· Objective is NOT to design the system

· Objective is NOT to be able to answer all questions

· Objective is NOT to produce DDD models

Gathered knowledge is used for Modeling

• Event Storming = Shared Understanding of the domain

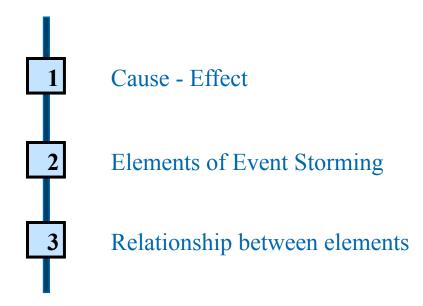
· Facilitated workshop

· Conducted in -person or online

Fundamentals of Event Storming

*

Elements of Event Storming modelling



NOTE

Lesson provides high -level introduction

· Please do your own Research

· Consider training

Introducing EventStorming

An act of Deliberate Collective Learning



The deepest tutorial and explanation about EventStorming, straight from the inventor.



Building blocks

Used for depicting the knowledge | flow

· 6 basic elements

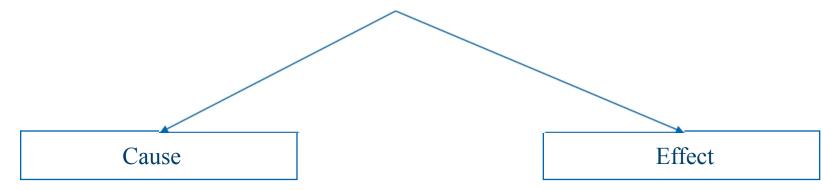
· Color coded sticky(s) are used to represent each of the element

Business Events are natural in all domains

They are the starting point of the conversation

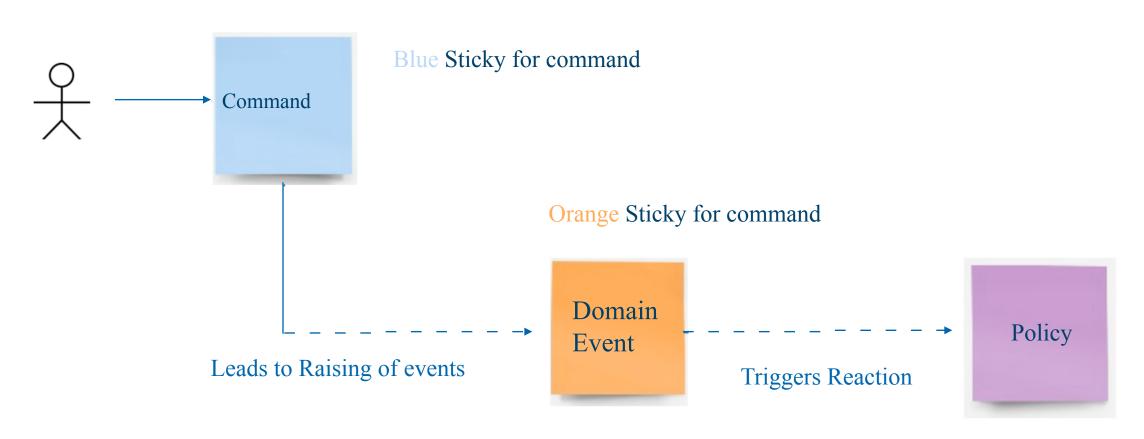
· All business events referred to as "Domain Events"

· Objective is to understand the Causation



Cause & Effect

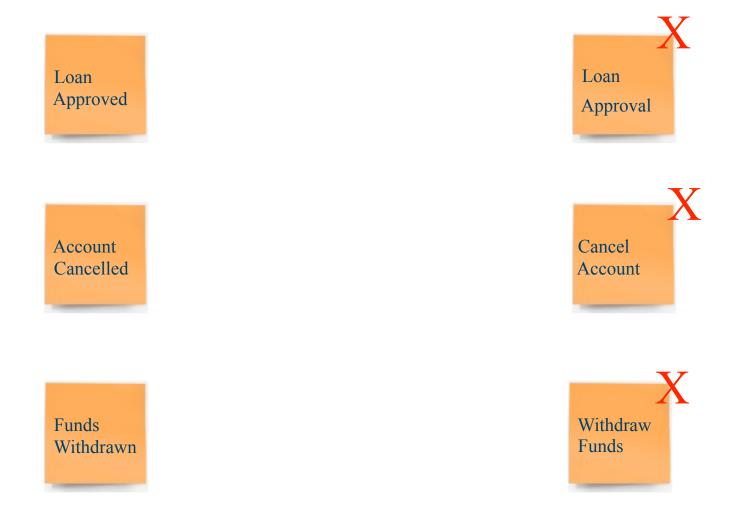
A domain actor causes a state change in the domain



Purple Sticky for policy

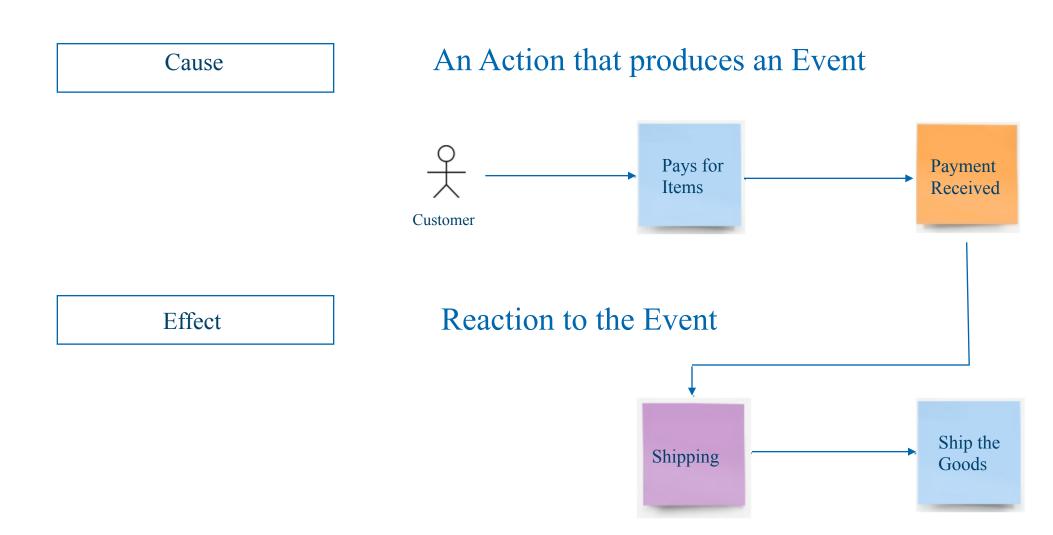
Naming the domain event

A domain event should be named in past tense



Examples: Cause & Effect

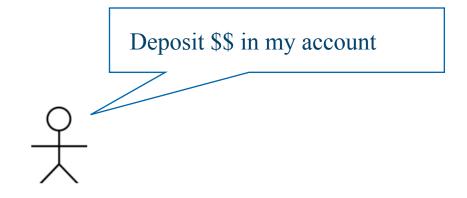
A Cause creates an Effect

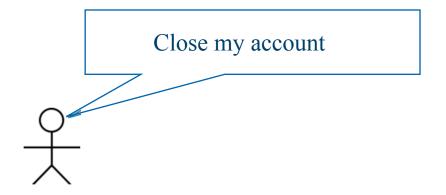


A Command is abstract

· Represents the intent of an actor

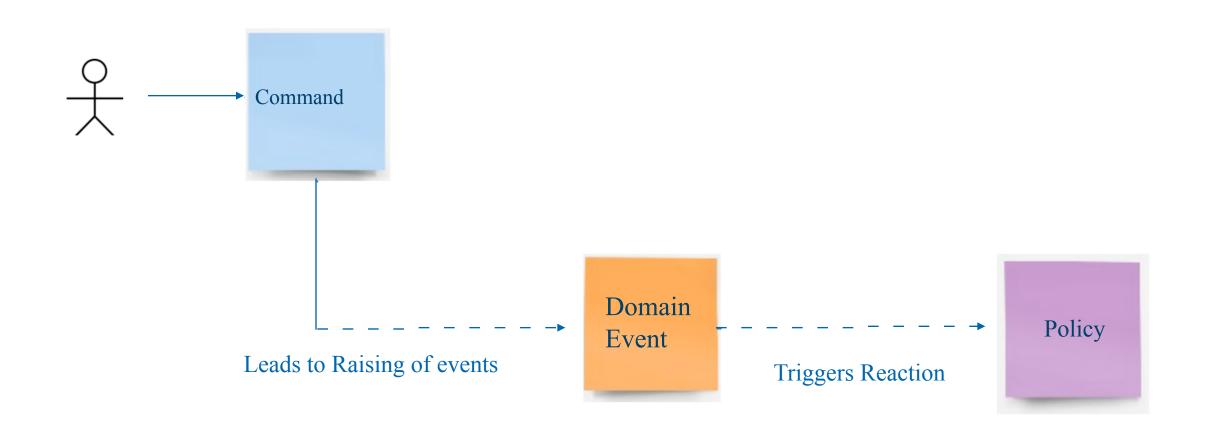
· That MUST be carried out by the domain





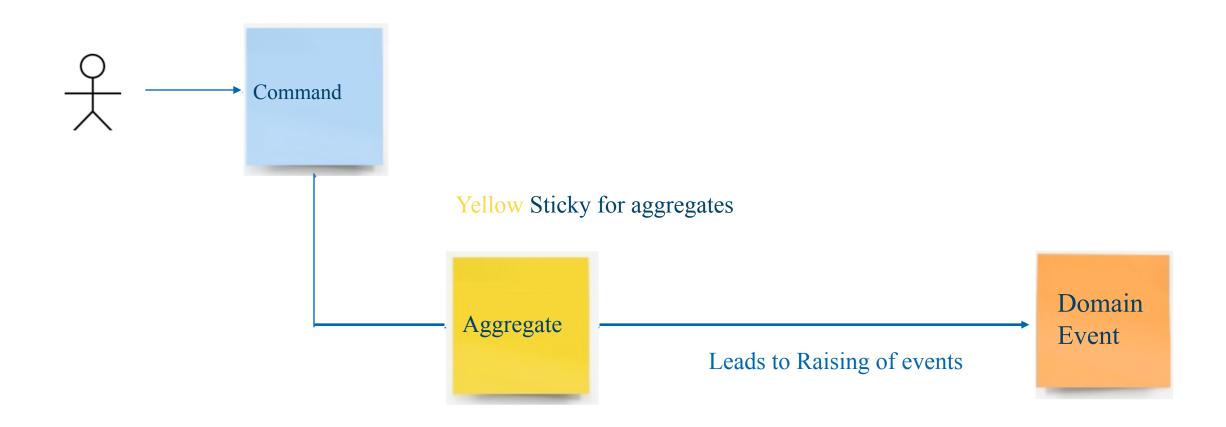
Command Processor

An Aggregate processes the command



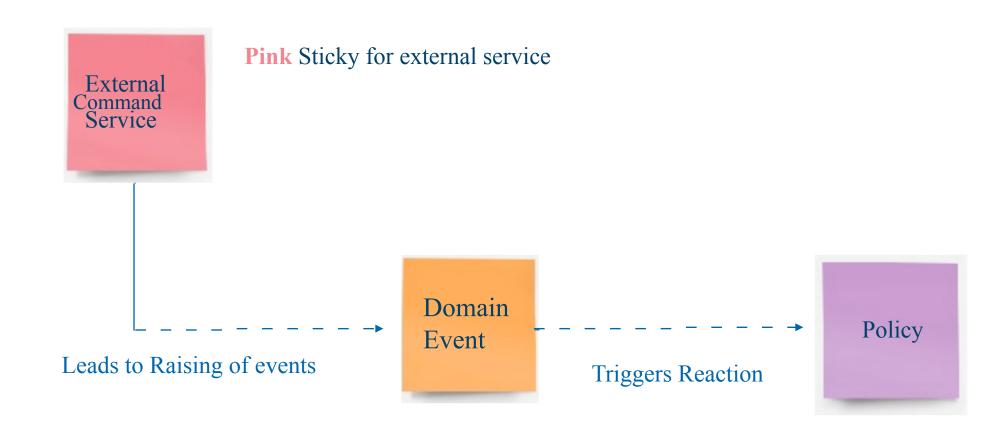
Command Processor

An Aggregate processes the command



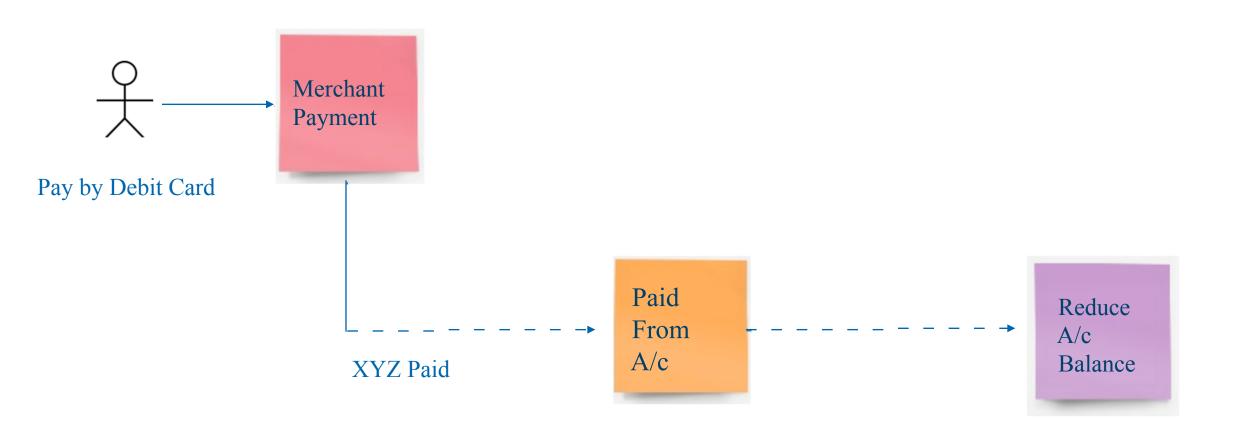
Source of events

An external system can also be a source of event



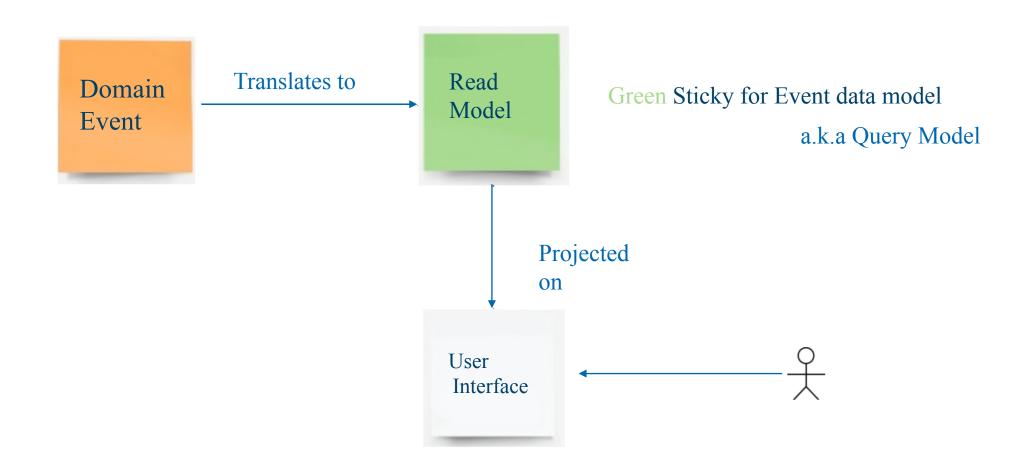
Example: External Source of event

An external system can also be a source of event



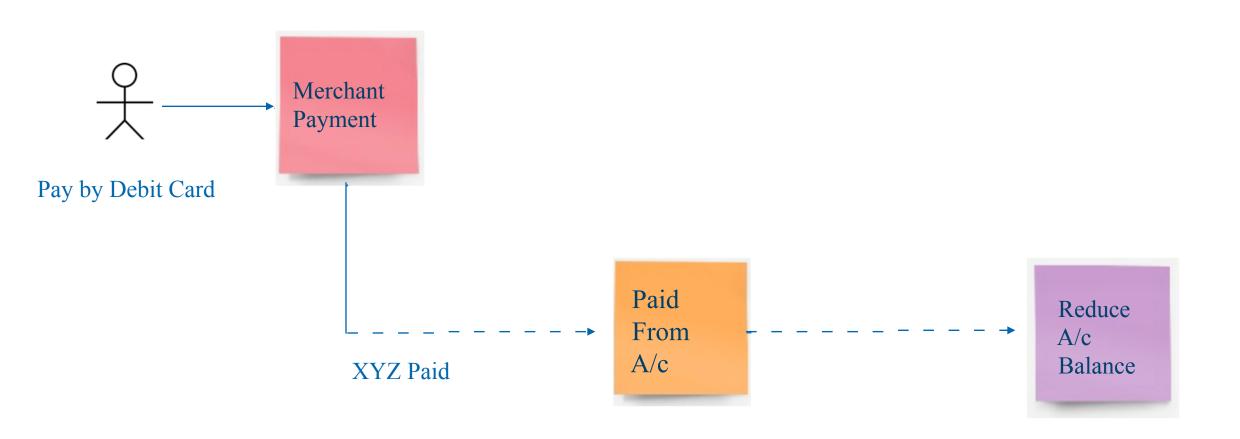
Event data

Event is directly or indirectly associated with state change



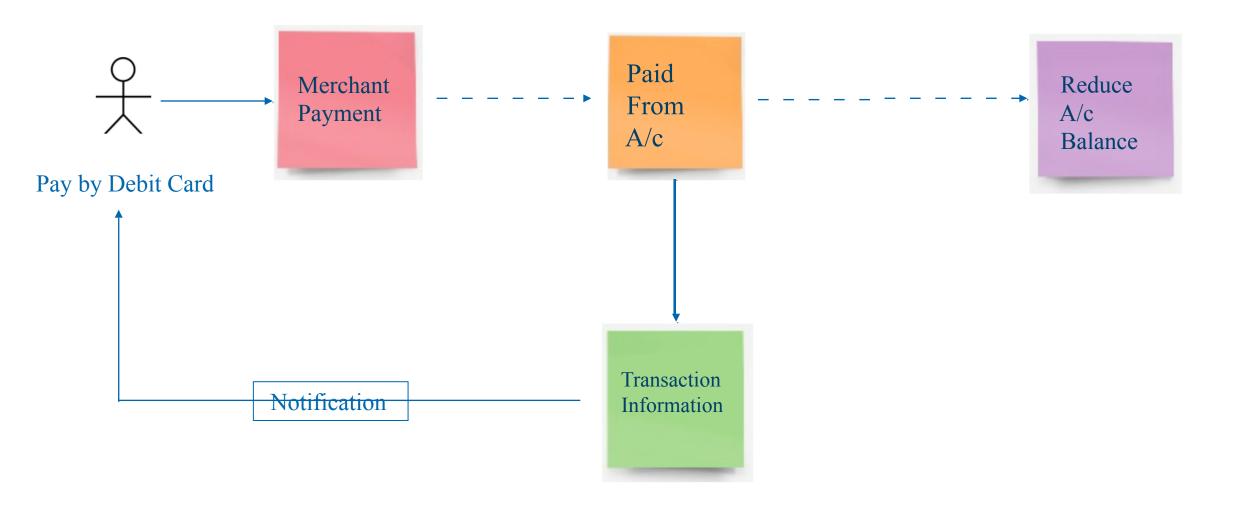
Example: Event data

Event is directly or indirectly associated with state change

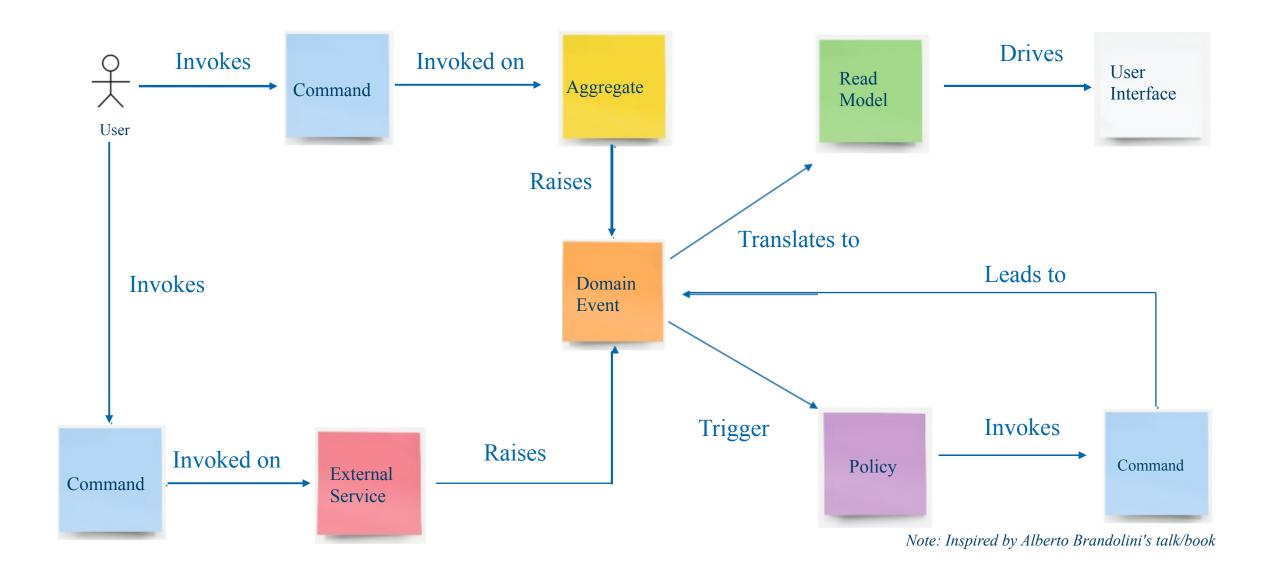


Example: Event data

Event is directly or indirectly associated with state change



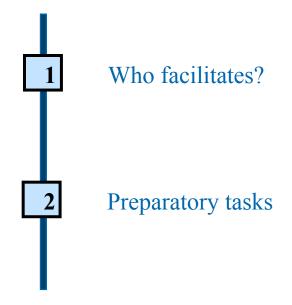
Relationships



Preparing for the workshop

Tasks to be carried out prior to the workshop





Who facilitates?

Large organizations hire outside consultants; you don't need to ©

· Train the internal teams to become facilitators

· IT experts are taking up this role in many organizations

Preparatory tasks

Setup the room | tools

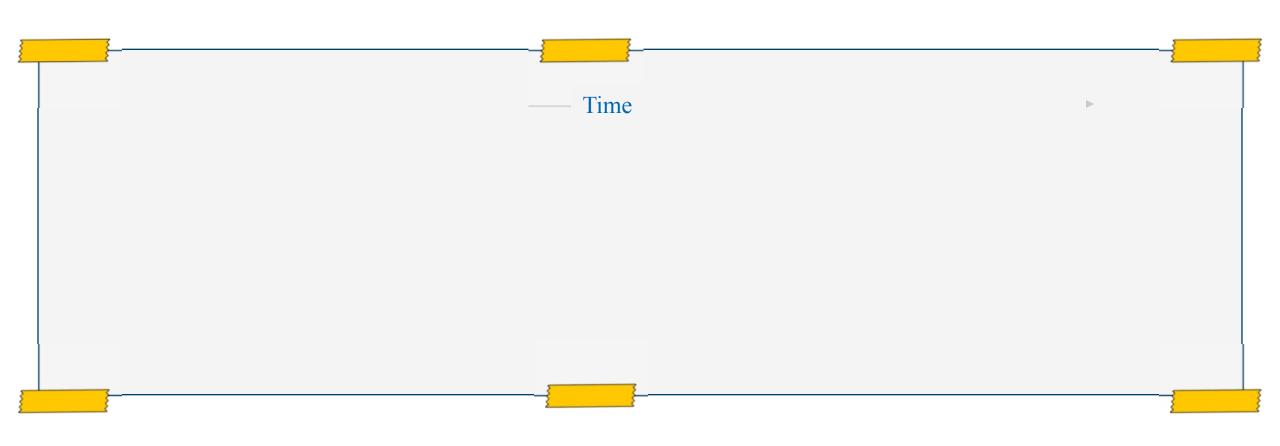
What is event storming?

What is the scope?

- What is the expected outcome?
- Dive in ©

Set the stage - in person

Prepares the room for the workshop



Set the stage - remote

Ensure all tools are ready to go at least 2 days prior to workshop

· Setup the video conference; setup the collaboration board

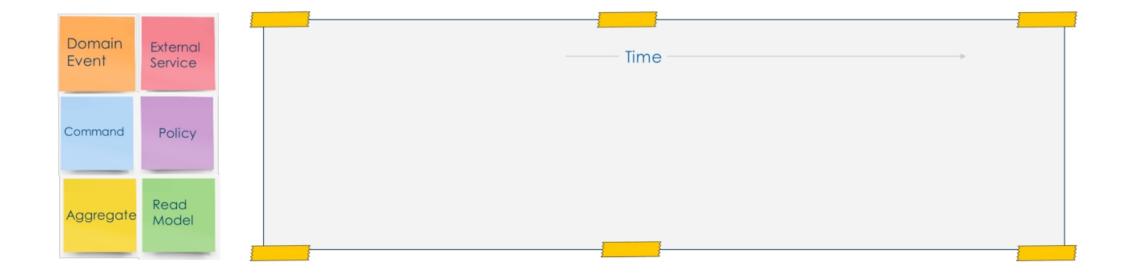
· Ask participants to ensure they can connect

Educate the participants

Do NOT assume your participants know what event storming is

· DO NOT use any technical terms

· Discuss purpose of colored sticky's; participants will learn on the go

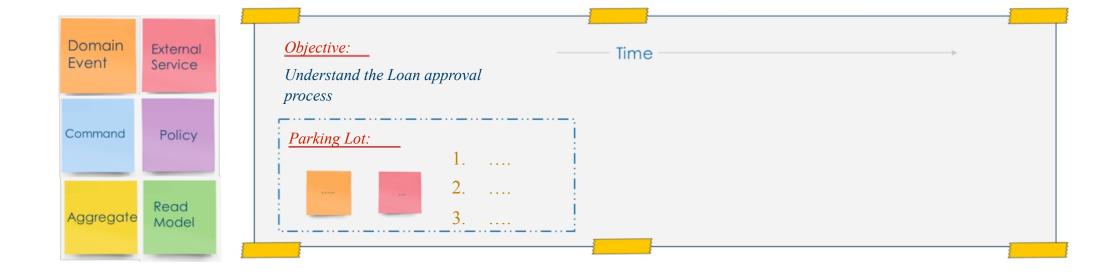


On board the participants

Define the scope so that everyone can stay on track

· Place the high - level objective so that they are visible at all time

· Have a dedicated space for out- of- scope items



Set the expectations

Provide a real experience with participants; share pictures

· Idea is to ensure everyone has realistic expectations

· Everyone is excited to be part of the workshop

· Look forward to learning & teaching

Dive in ©

Remember to have FUN and keep everyone energized!!!

Conducting the workshop

How to carry out the workshop





Note

Event Storming does NOT require you to use ALL elements

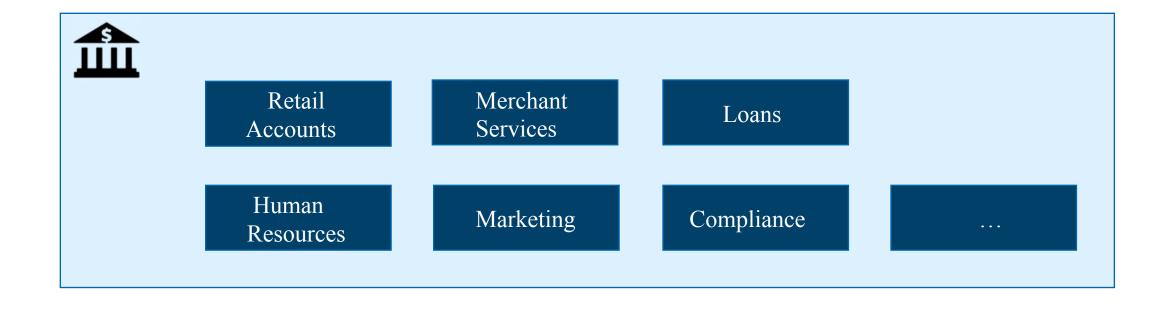


User Interface

Not part of ES elements

Demo Case Study

Bank's loan approval process



Demo Case Study

Bank's loan approval process

Loans













General Steps

Facilitator may adjust the steps | flow | pace as needed

· Facilitator's / Participant's past experience

· Complexity

· Granularity of the model (high level -- detailed)

.



General Steps

Identify the Domain Events

...

Order the events across the timeline



Identify the cause & effects of events



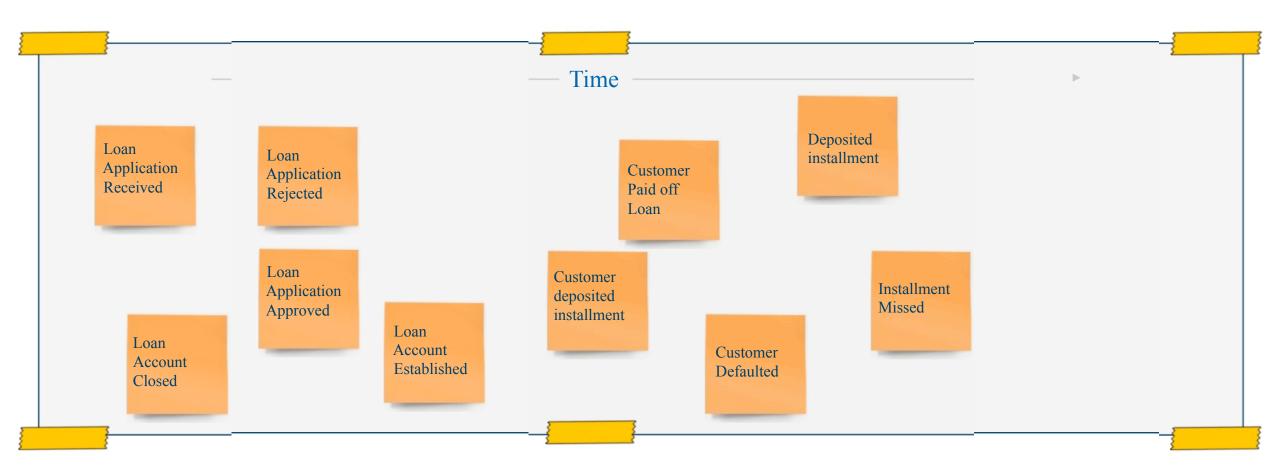
Associate the commands with Aggregate(s)





1. Identify the Domain Events

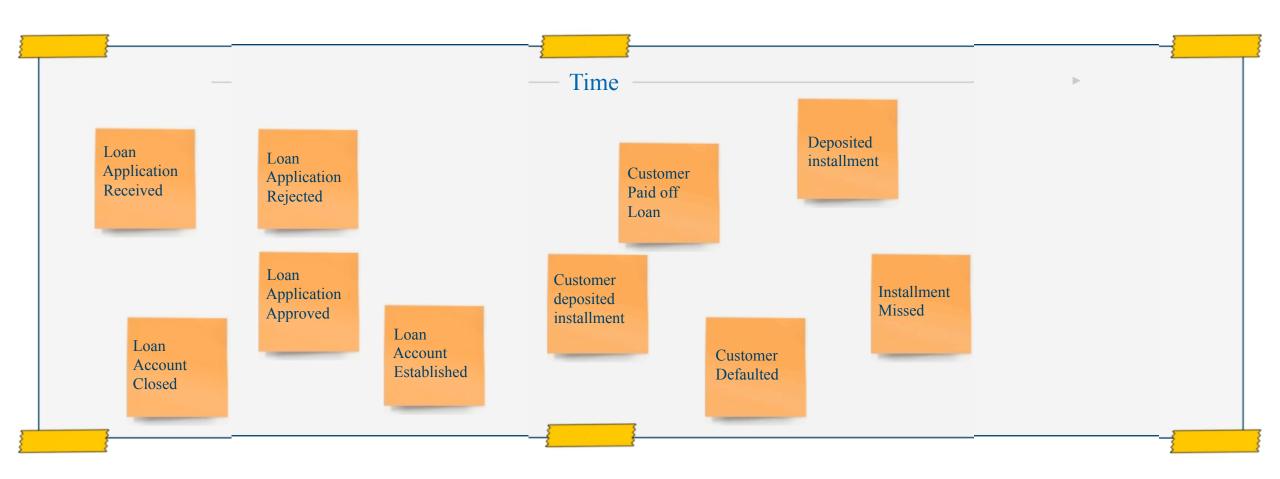
Facilitator asks participants to brainstorm





2. Order the Events across the Timeline

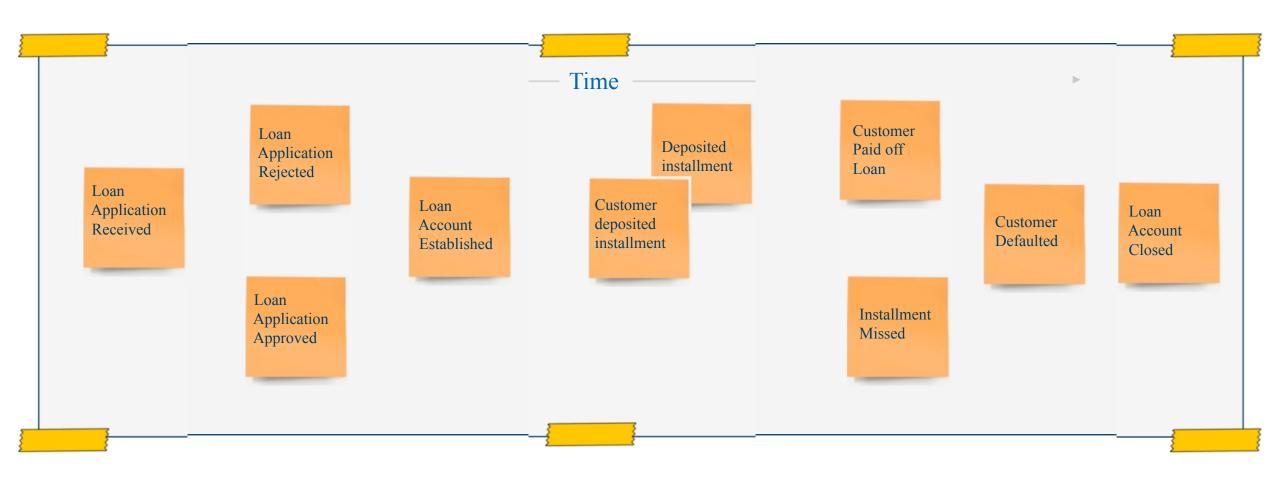
Participants discuss when the event occurs





2. Order the Events across the Timeline

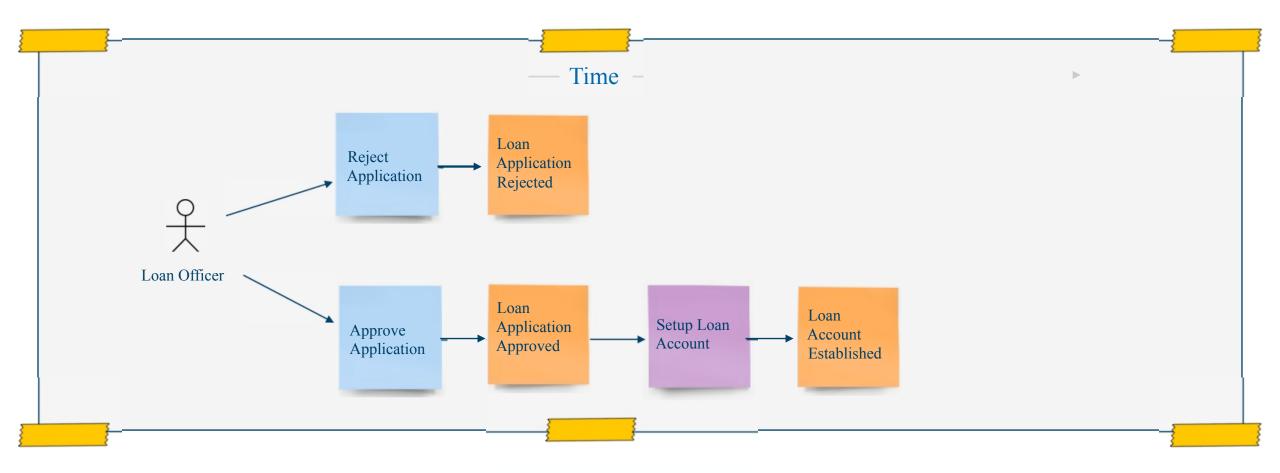
Look for duplicates and remove as needed





3. Identify the Cause | Effect

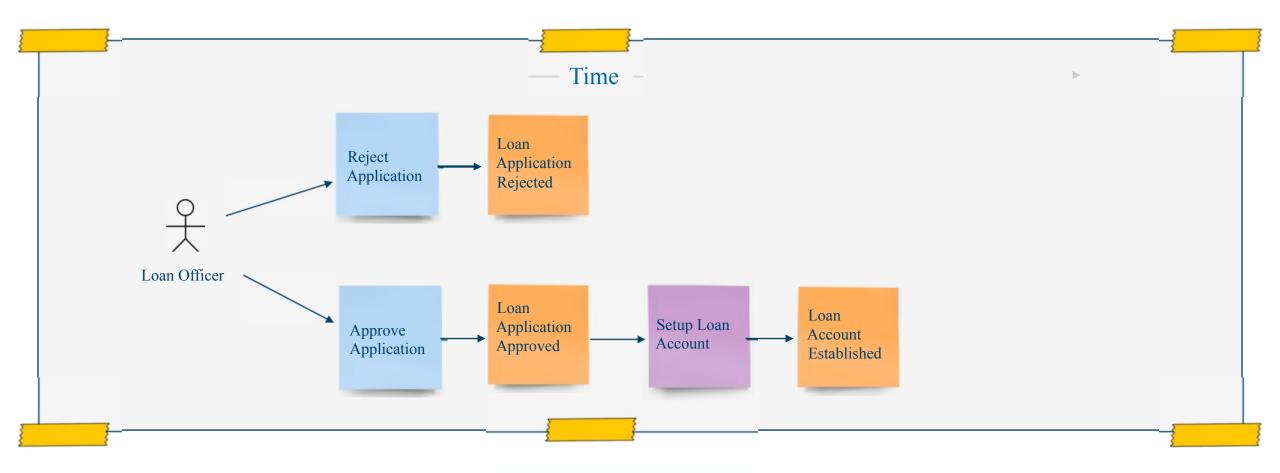
Think of Commands, Policies & Actors





4. Associate Aggregates with commands

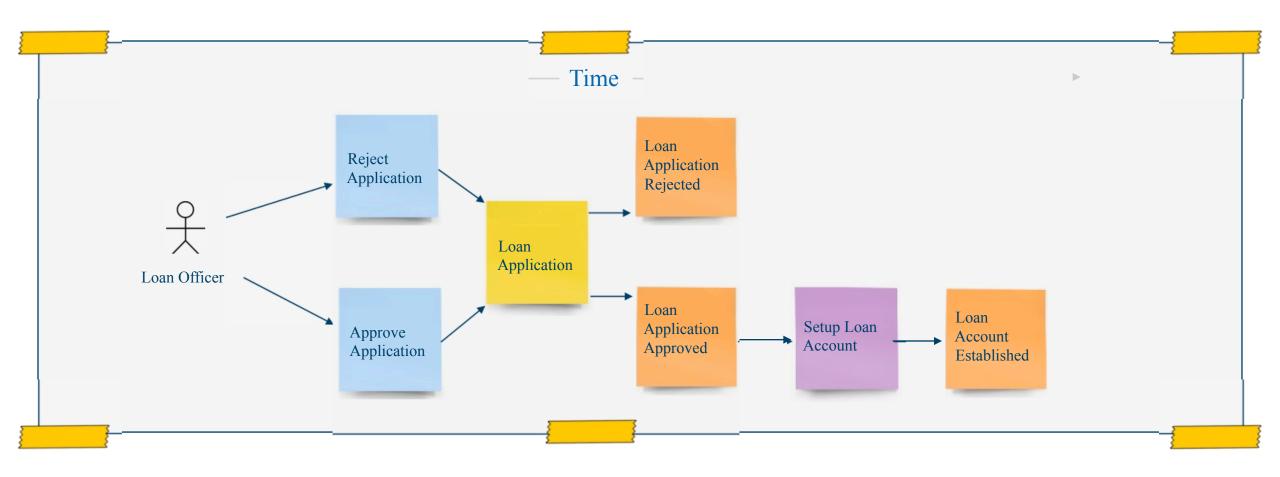
Think business logic





4. Associate Aggregates with commands

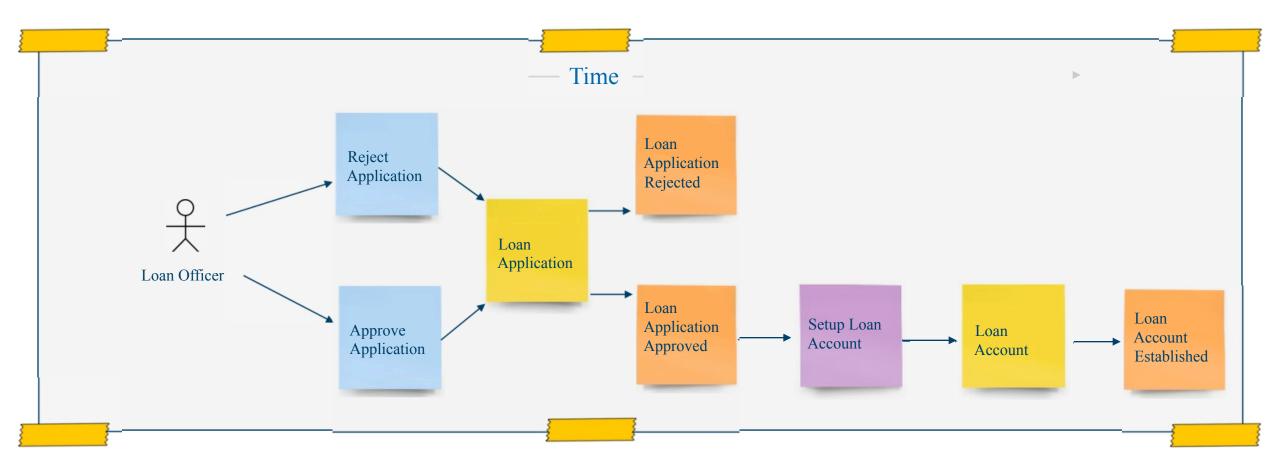
Think business logic





4. Associate Aggregates with commands

Think business logic





Post workshop activities

Do not forget to take pictures of the workspace

· Ask participants for their feedback

· What worked out well?

· What needs to be changed?

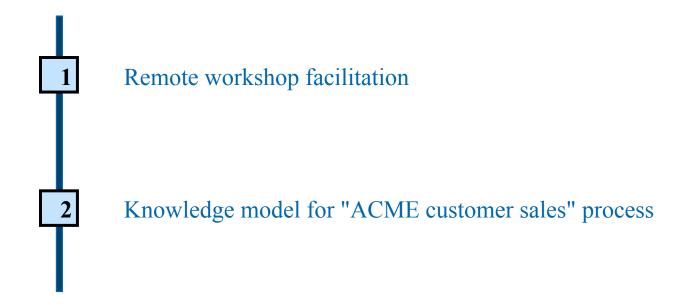
· Consolidate the knowledge and share it with ALL participants

· Follow up on next steps & don't forget the parking lot items ©

ACME Sales Event Storming Workshop

Customer Sales Process - Knowledge Model





Workshop Scope

ACME's direct sales process











Prepare for the workshop

Setup the Video call & Collaboration tool









Setup the shared board

Divide the board into multiple sections

· Put all helpful information on the board

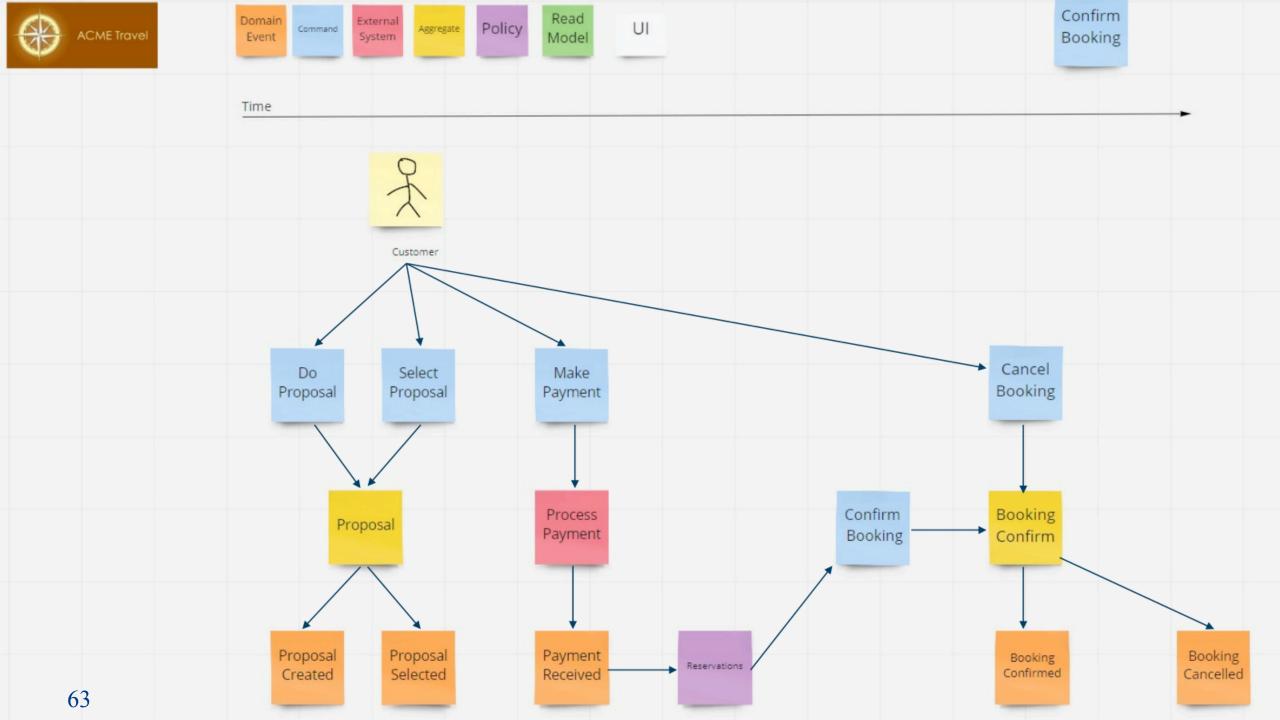
· Send an invite to the participants to join the Board





Focus is on demonstrating tasks involved in Event Storming

Please checkout miro.com to learn about features in use



Quick Review

Domain Event

· A Fact happened in the past

Command

- · An Action initiated by user/system/service/time
- · This action MUST be carried out

Aggregate

· Processor for the command

Quick Review

External Service

· An Outside component that raises the domain event

Policy

· A Component inside the domain that reacts to events

Read Model

· The Data model for the event