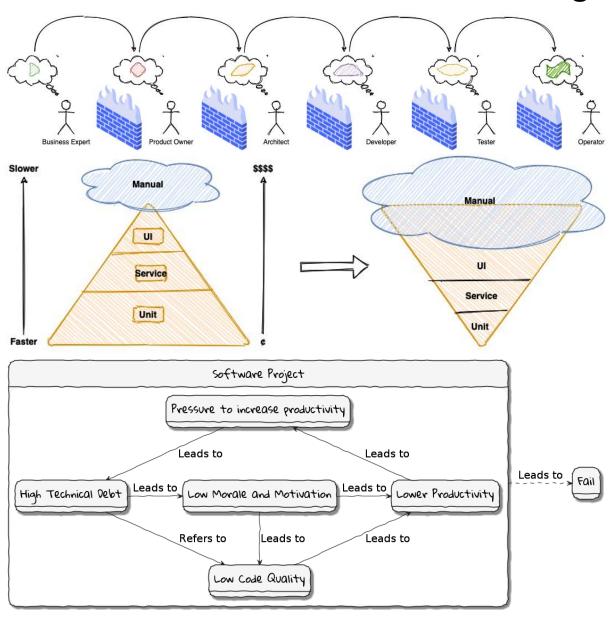
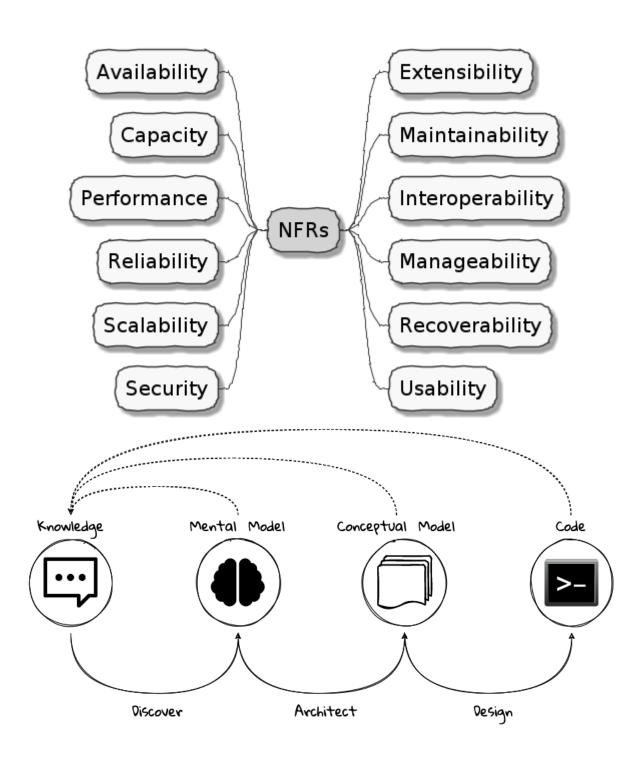
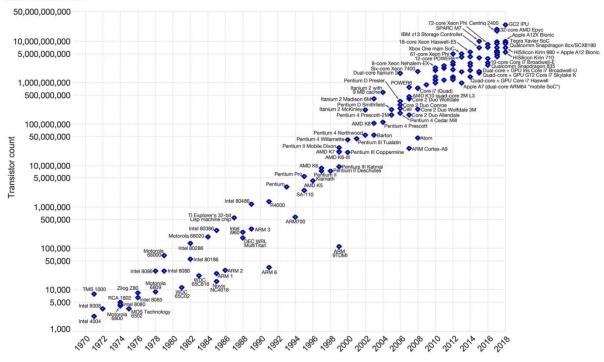
Chapter 1: The Rationale for Domain-Driven Design







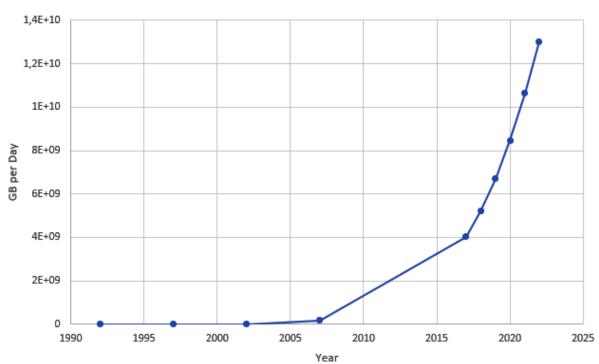
 $Moore's \ Law-The \ number \ of \ transistors \ on \ integrated \ circuit \ chips \ (1971-2018)$ $Moore's \ law \ describes \ the \ empirical \ regularity \ that \ the \ number \ of \ transistors \ on \ integrated \ circuits \ doubles \ approximately \ every \ two \ years.$ $This \ advancement \ is \ important \ as \ other \ aspects \ of \ technological \ progress - such \ as \ processing \ speed \ or \ the \ price \ of \ electronic \ products - are$ linked to Moore's law.

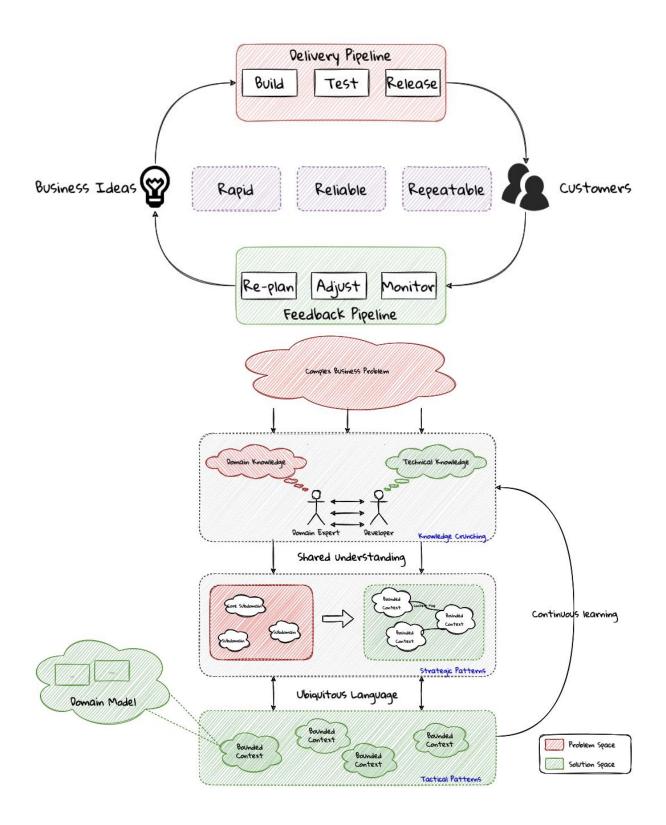


Data source: Wikipedia (https://en.wikipedia.org/wiki/Transistor_count)
The data visualization is available at OurWorldinData.org. There you find more visualizations and research on this topic.

Licensed under CC-BY-SA by the author Max Roser.

Global Internet Traffic





Noun [edit]

domain (plural domains)

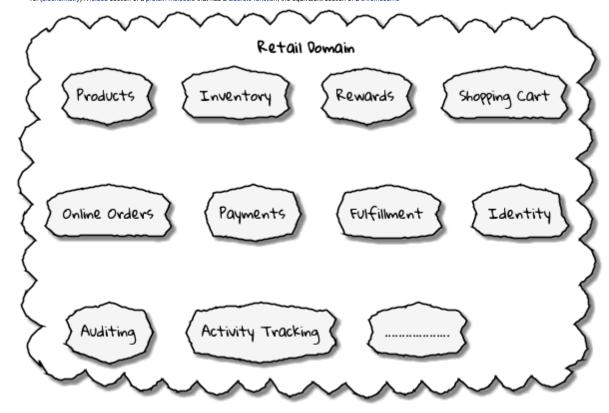
- 1. A geographic area owned or controlled by a single person or organization. [quotations ▼]
 - The king ruled his domain harshly.
- 2. A field or sphere of activity, influence or expertise.

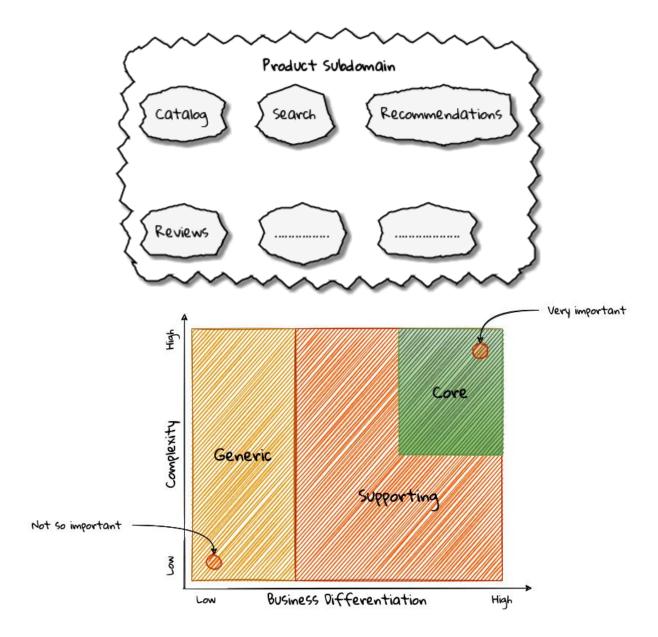
Dealing with complaints isn't really my **domain**: get in touch with customer services. His **domain** is English history.

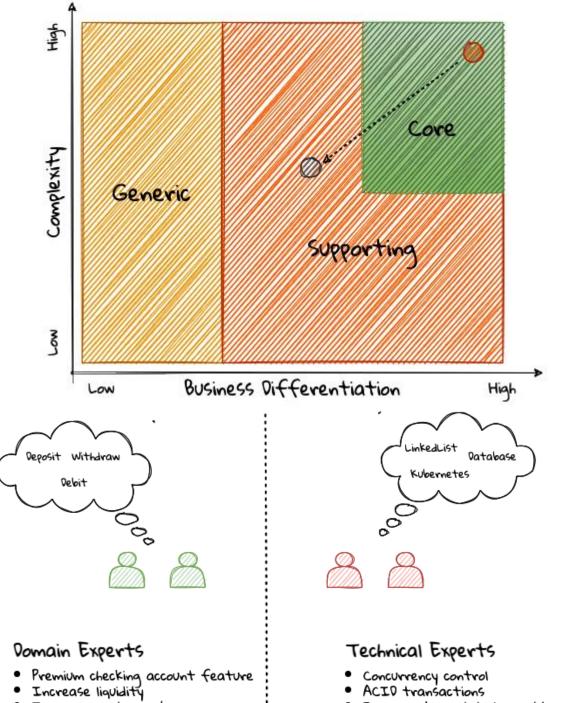
- 3. A group of related items, topics, or subjects. [quotations ▼]
- 4. (mathematics) The set of all possible mathematical entities (points) where a given function is defined.
- 5. (mathematics, set theory) The set of input (argument) values for which a function is defined.
- 6. (mathematics) A ring with no zero divisors; that is, in which no product of nonzero elements is zero.

Hyponym: integral domain

- 7. (mathematics, topology, mathematical analysis) An open and connected set in some topology. For example, the interval (0,1) as a subset of the real numbers.
- 8. (computing, Internet) Any DNS domain name, particularly one which has been delegated and has become representative of the delegated domain name and its subdomains. [quotations ∇]
- 9. (computing, Internet) A collection of DNS or DNS-like domain names consisting of a delegated domain name and all its subdomains.
- 10. (computing) A collection of information having to do with a domain, the computers named in the domain, and the network on which the computers named in the domain reside.
- 11. (computing) The collection of computers identified by a domain's domain names.
- 12. (physics) A small region of a magnetic material with a consistent magnetization direction.
- 13. (computing) Such a region used as a data storage element in a bubble memory.
- 14. (data processing) A form of technical metadata that represent the type of a data item, its characteristics, name, and usage. [quotations \P]
- 15. (taxonomy) The highest rank in the classification of organisms, above kingdom; in the three-domain system, one of the taxa Bacteria, Archaea, or Eukaryota.
- 16. (biochemistry) A folded section of a protein molecule that has a discrete function; the equivalent section of a chromosome





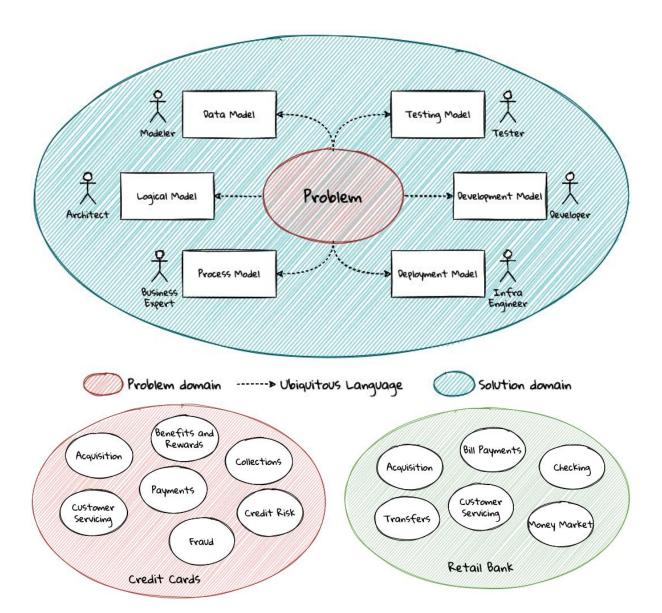


- Increase customer base

Problem domain

- ACID transactions
- Frameworks and design patterns

Solution domain



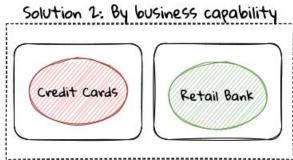
Solution 1: Monolith

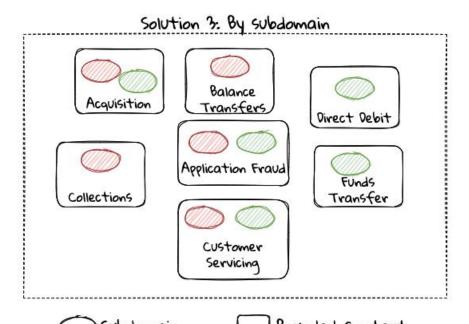
Solution 2

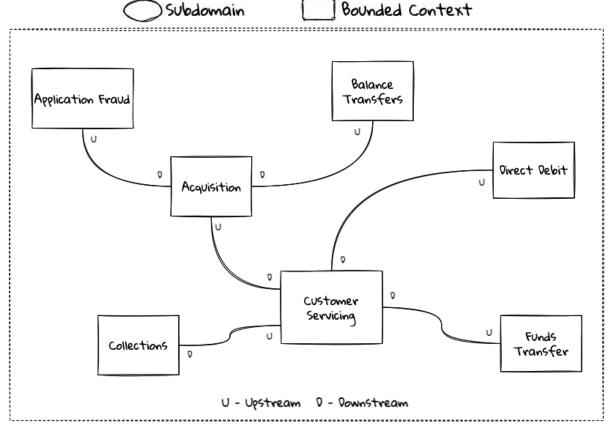
Credit Cards

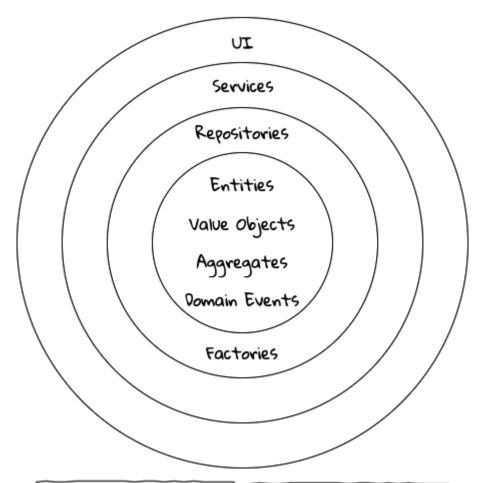
Retail Bank

Credit Ca









(E) Transaction

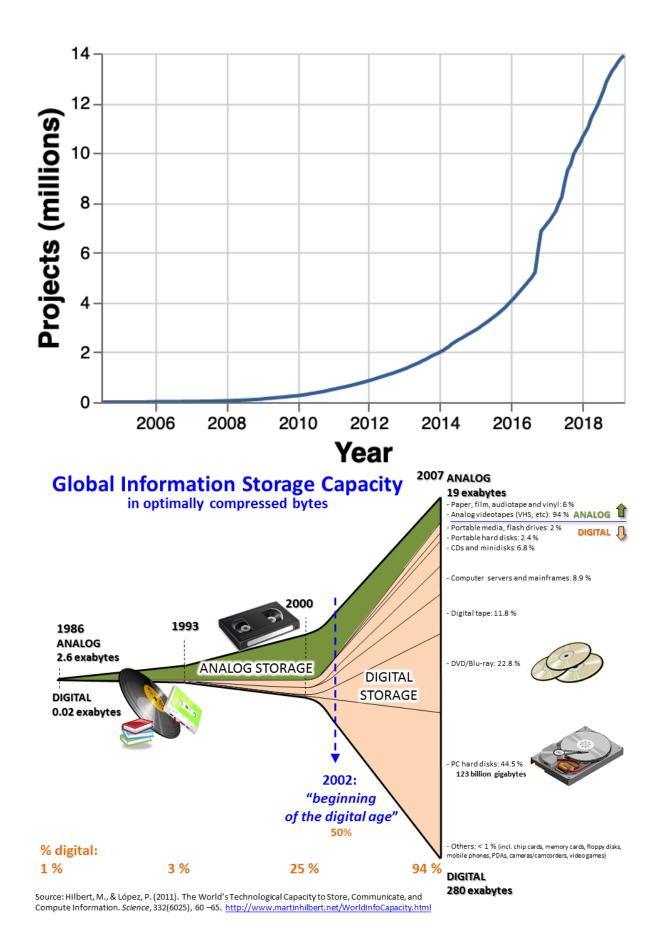
- id: TransactionId «generated»
- □ amount: MonetaryAmount
- □ type: TransactionType
- □ date: Date
- void approved()
- void rejected()

(E) Transaction

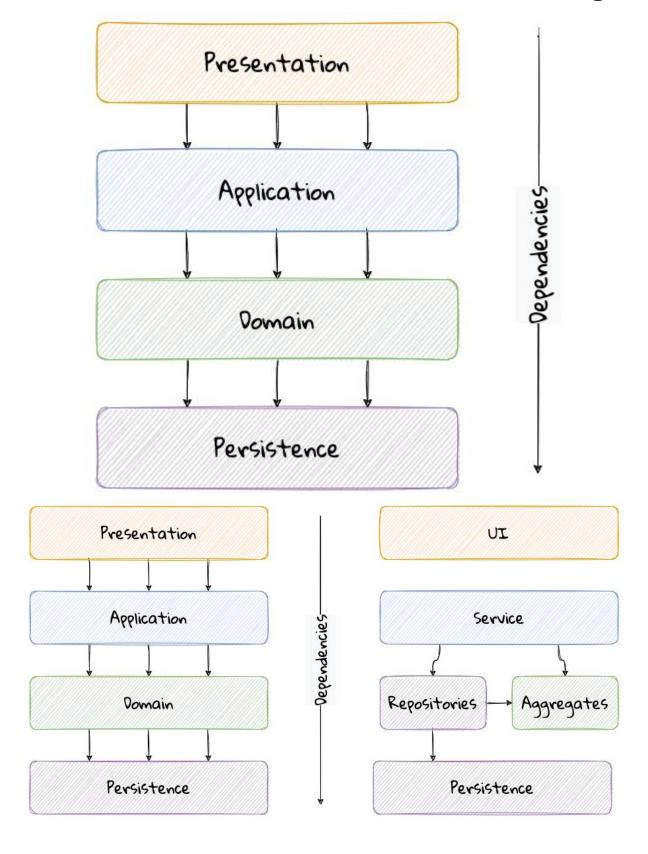
- id: TransactionId «generated»
- □ amount: MonetaryAmount
- □ type: TransactionType
- □ date: Date
- ☐ status: TransactionStatus
- void approved()
- void rejected()

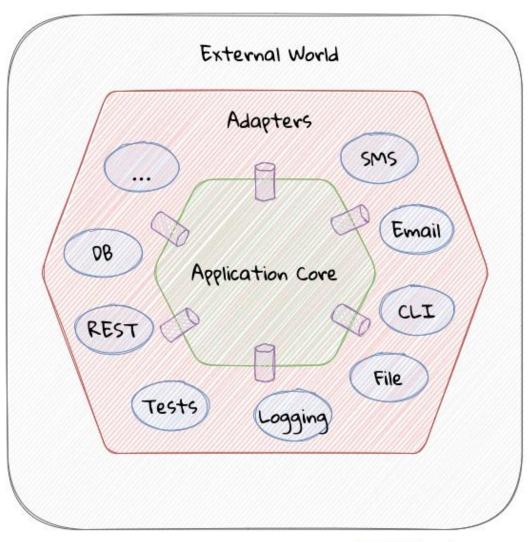
(E) CheckingAccount

- checkingAccountId: CheckingAccountId «generated»
- □ primaryHolder: AccountHolder
- ☐ secondaryHolders: Collection<AccountHolder>
- ☐ currentBalance: MonetaryAmount
- ☐ openingDate: Date
- 🏻 status: Boolean
- ☐ transactions: Collection<Transaction>
- void tryWithdraw()
- void tryDeposit()
- void addSecondaryHolder()



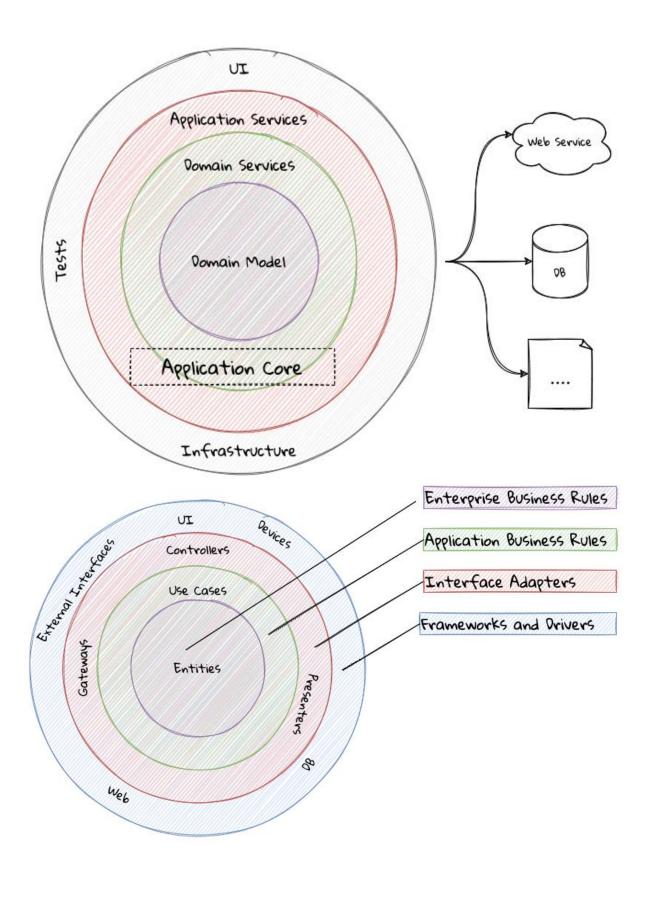
Chapter 2: The Mechanics of Domain-Driven Design

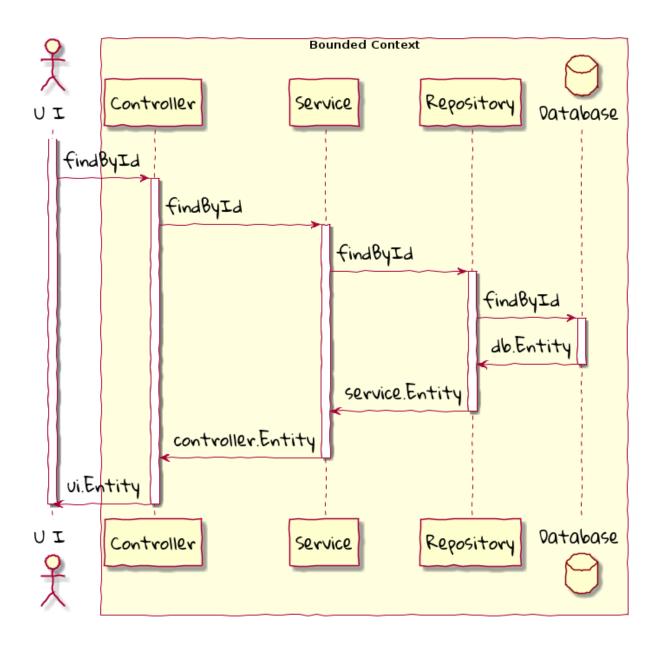


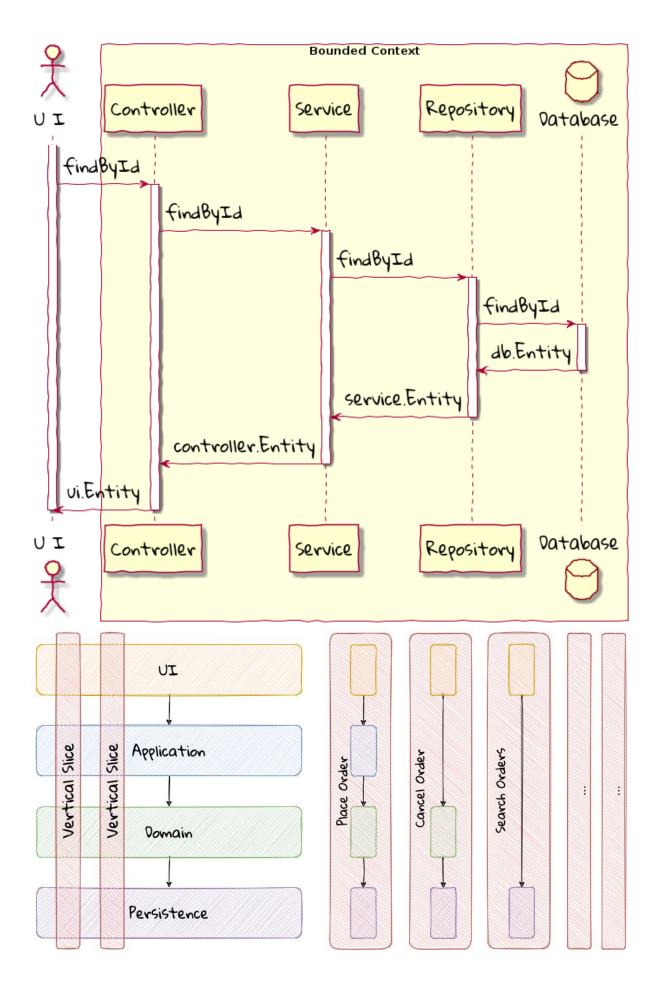


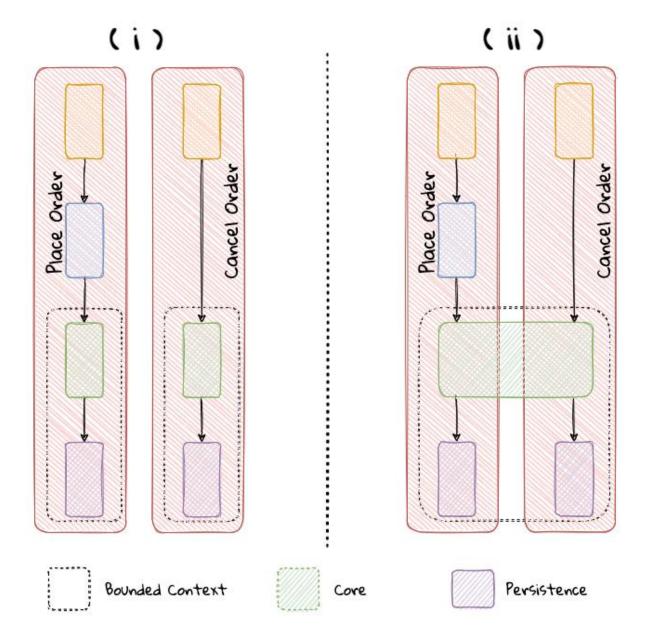
Port

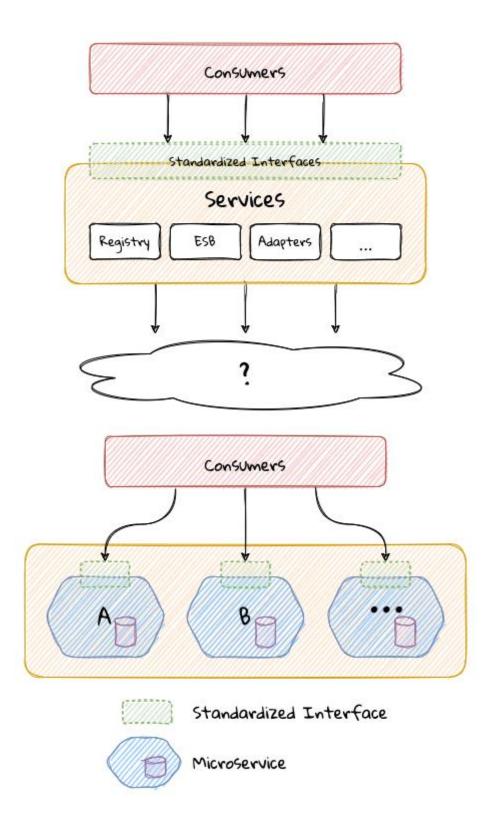


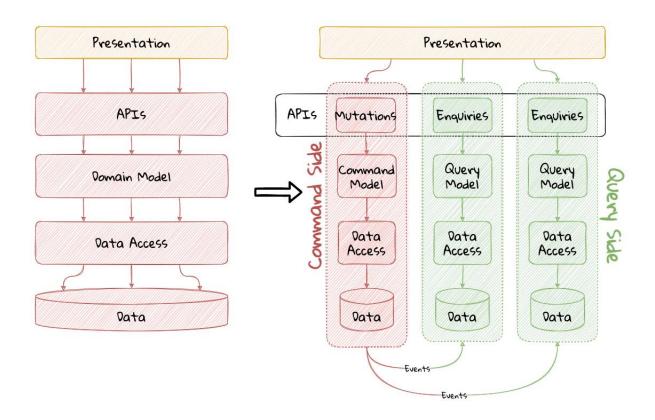




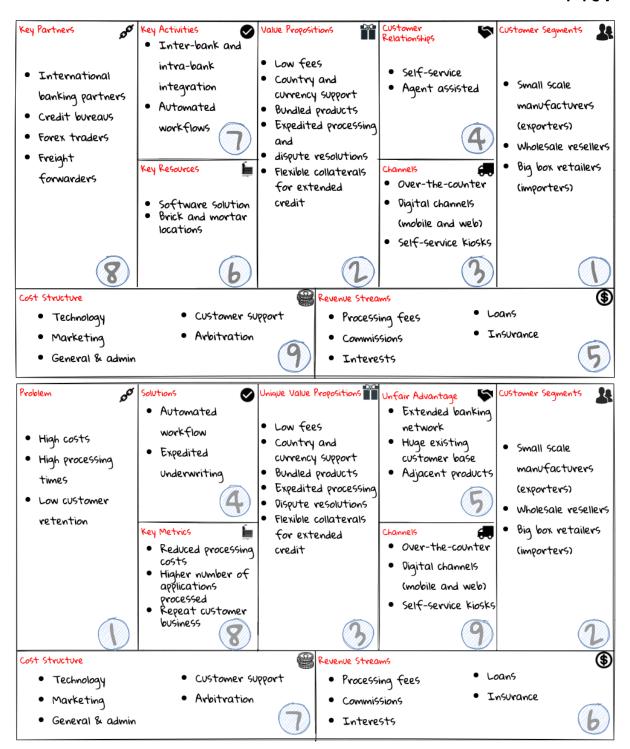


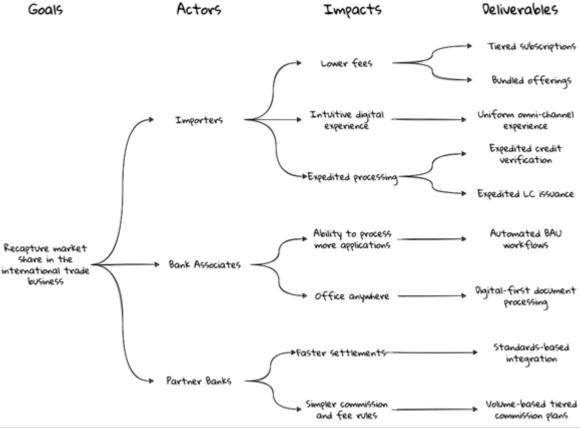


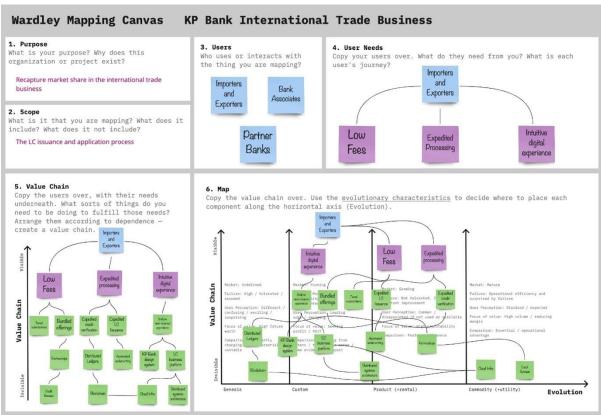




Chapter 3: Where and How Does DDD Fit?

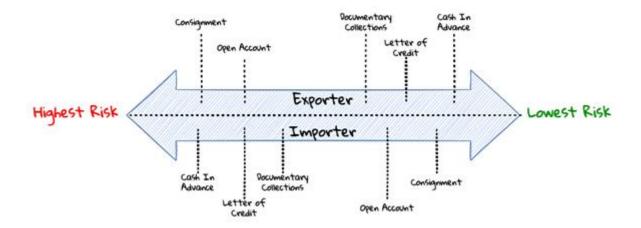




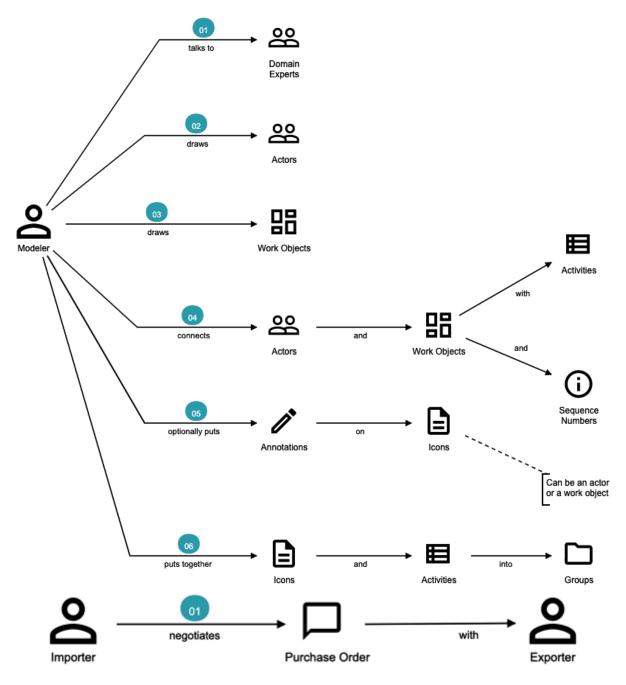


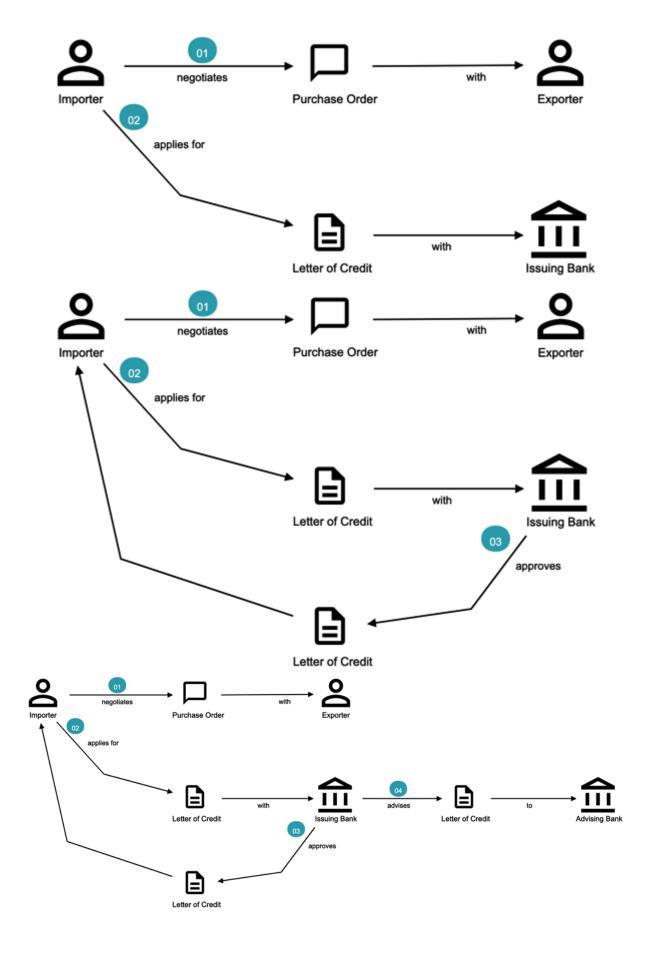
Mardley Mapping, Evolutionary Characteristics Cheat Sheet courtesy of Simon Wardley, CC BY-SA 4.0. Canvas designed by Ben Mosior. Visit https://hiredthought.com/mardley-mapping for more information

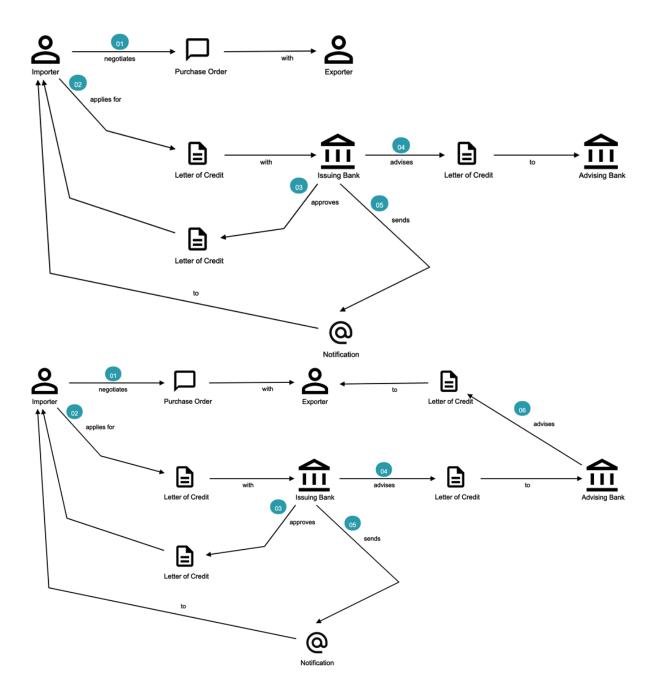
This work is licensed under a Creative Commons Attribution-ShareAlike 4.0 International License, CC BY-SA/4:0. To view a copy of the license, visit https://creativecommons.org/licenses/by-sa/4.0/.



Chapter 4: Domain Analysis and Modeling Using EventStorming





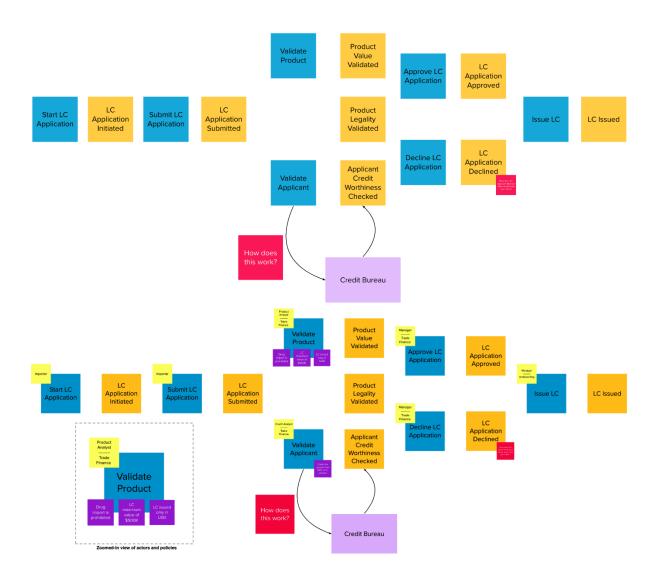


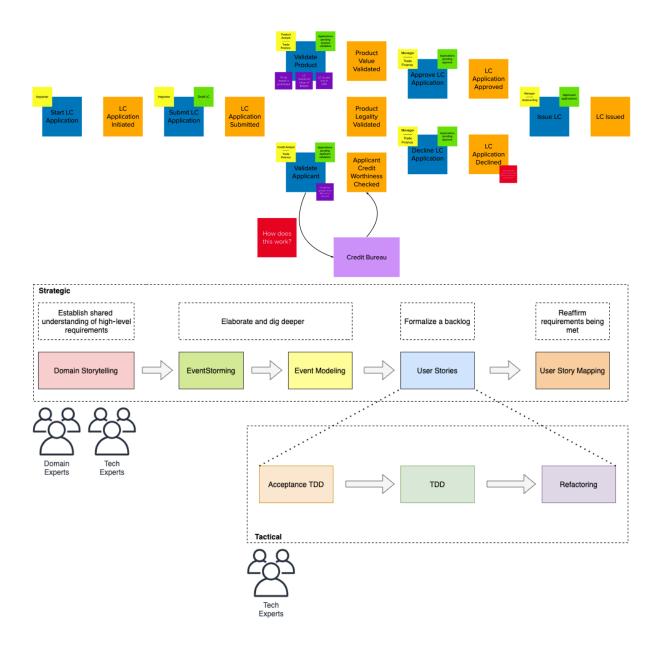
Issue / Action / Domain Hotspot / **Actor Event** Command Question Data / Read **External System** Policy / Rule Model Product Value Validated LC LC Product LC **Application Application Application** LC Issued Legality Validated Initiated Submitted Approved How does the **Applicant** Credit out about a Worthiness Checked Product Value Validated LC Application Approved LC LC Product Application Application Legality LC Issued Initiated Submitted Validated LC

Applicant

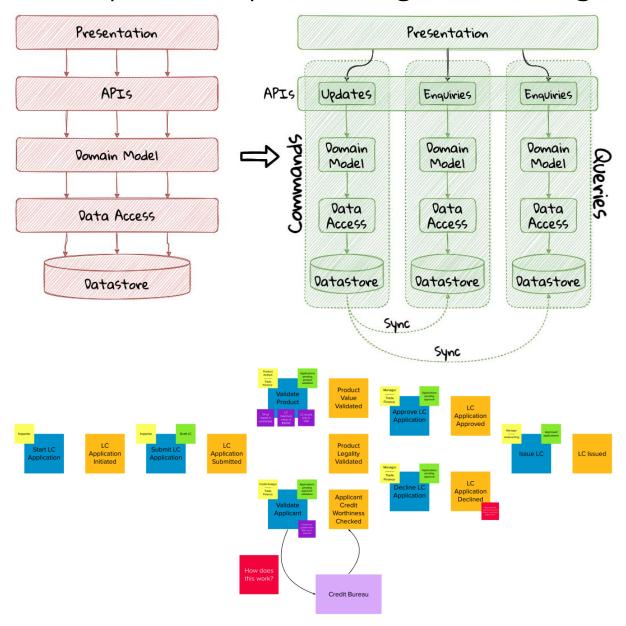
Credit Worthiness Checked Application

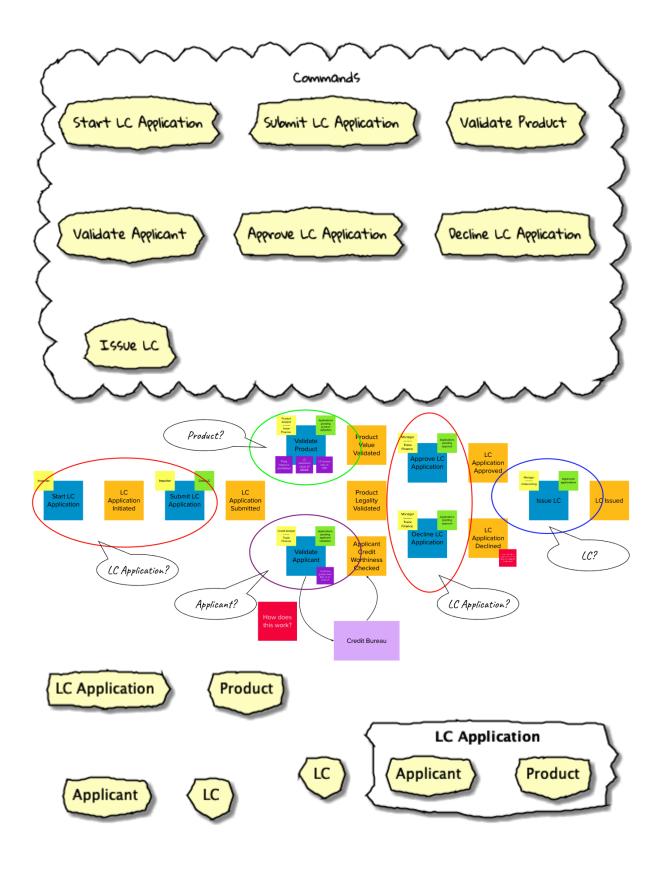
Declined

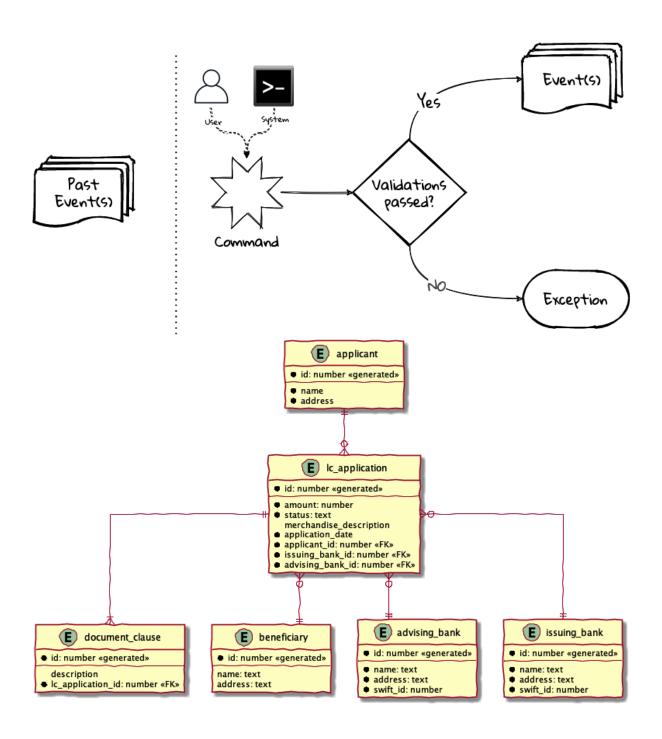


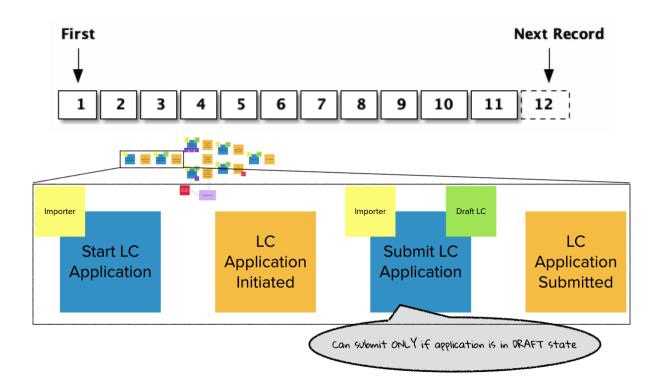


Chapter 5: Implementing Domain Logic

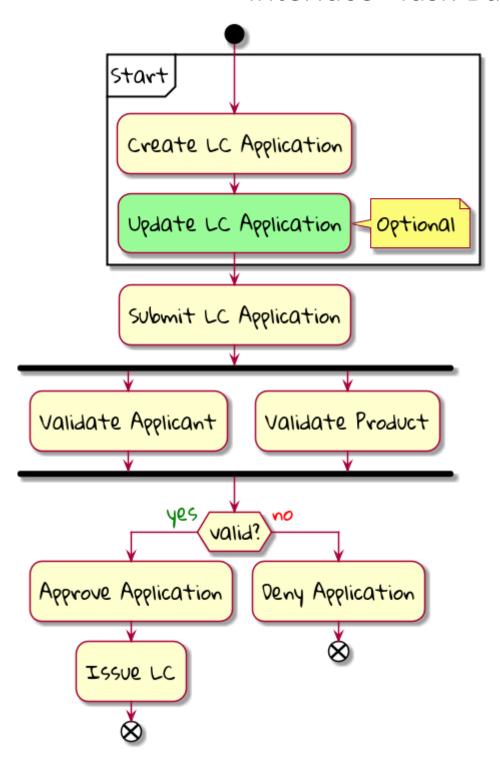


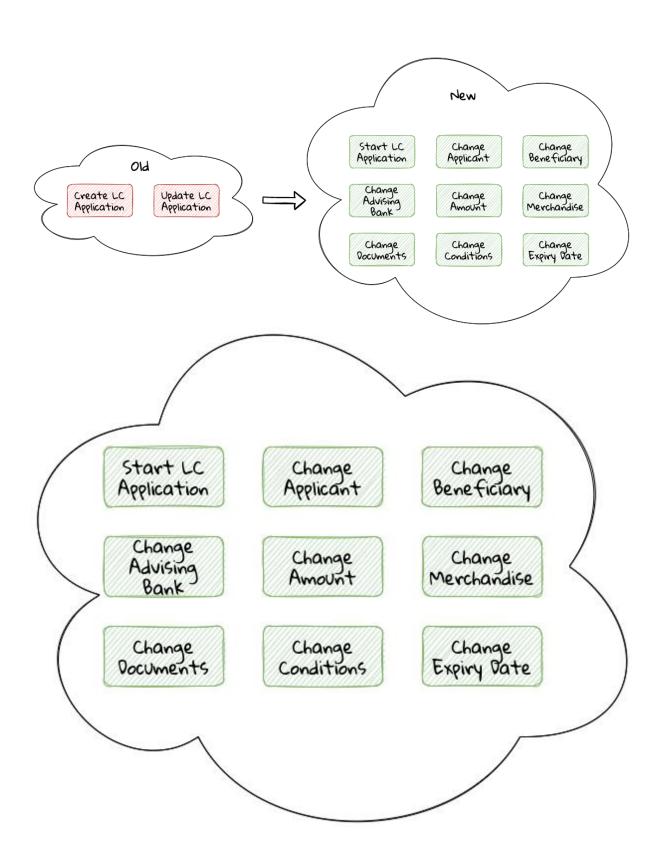


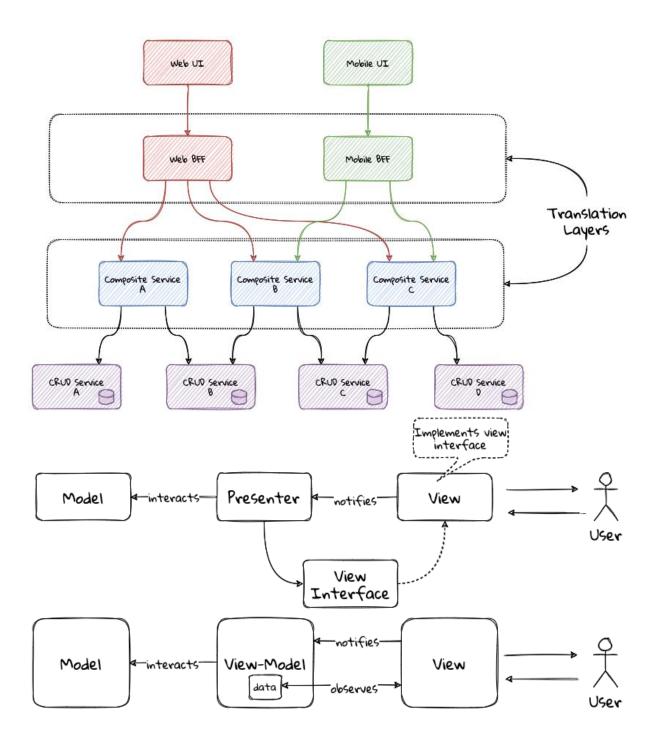


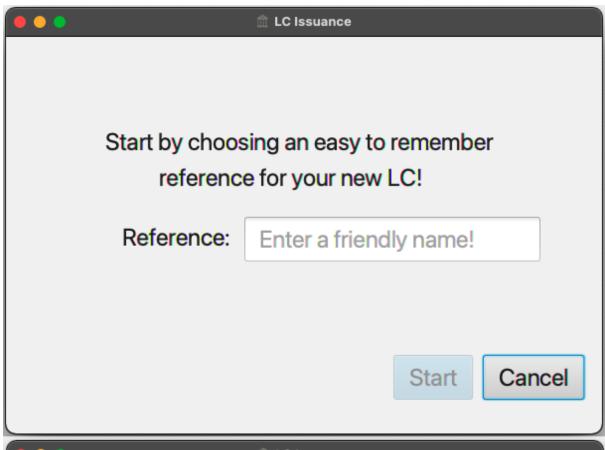


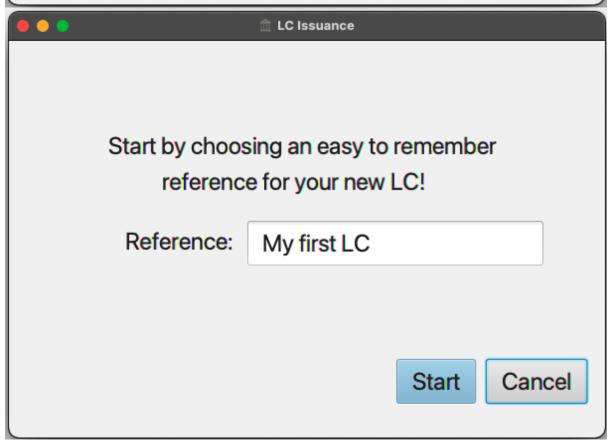
Chapter 6: Implementing the User Interface- Task-Based



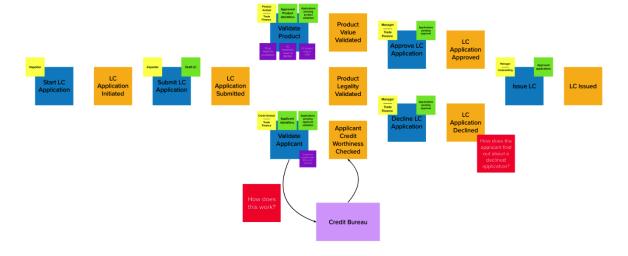


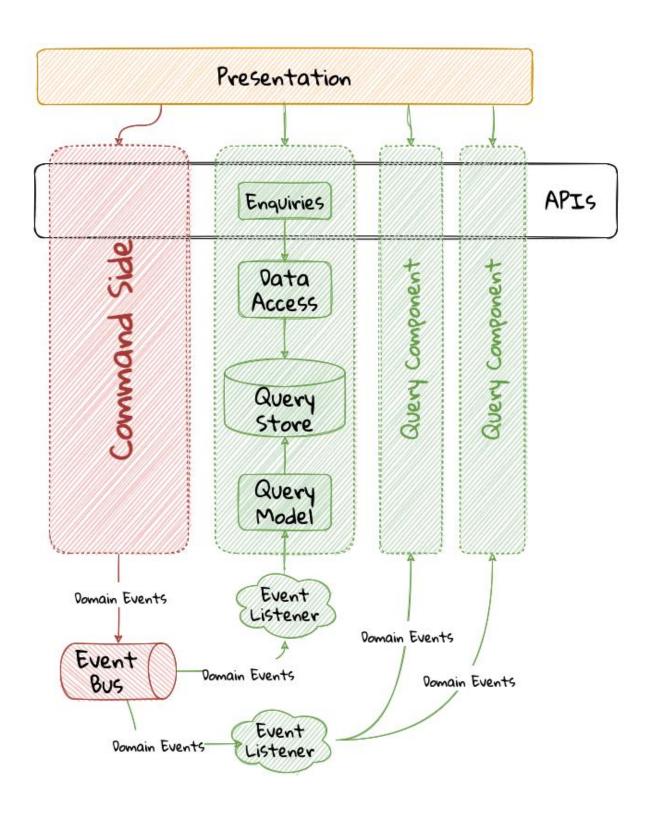


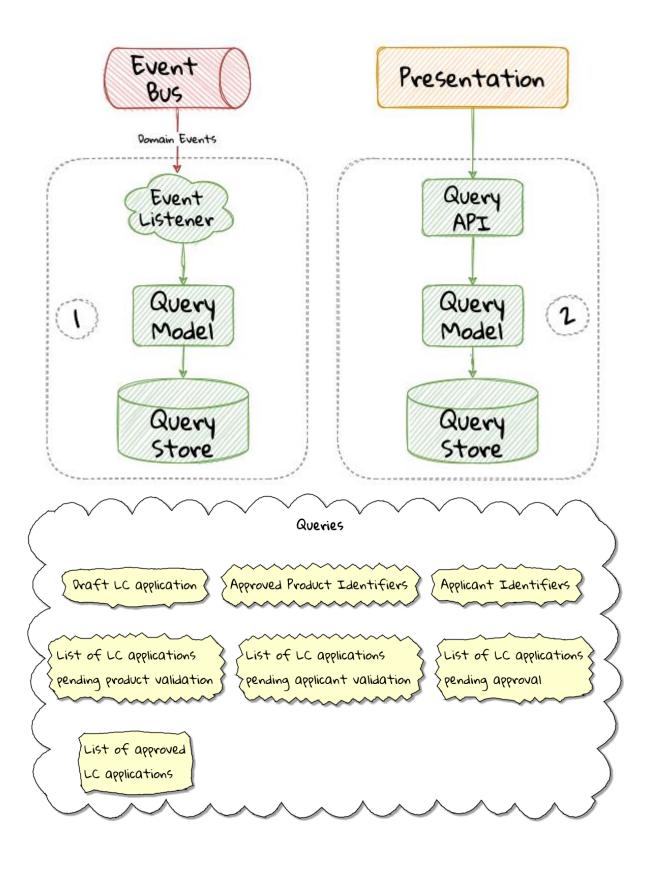




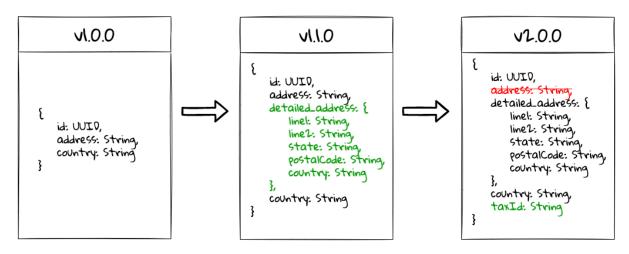
Chapter 7: Implementing Queries



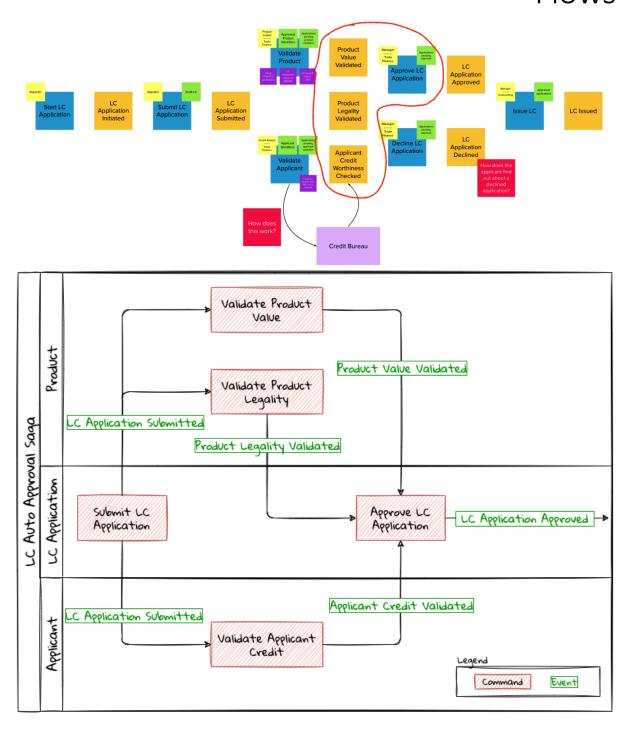


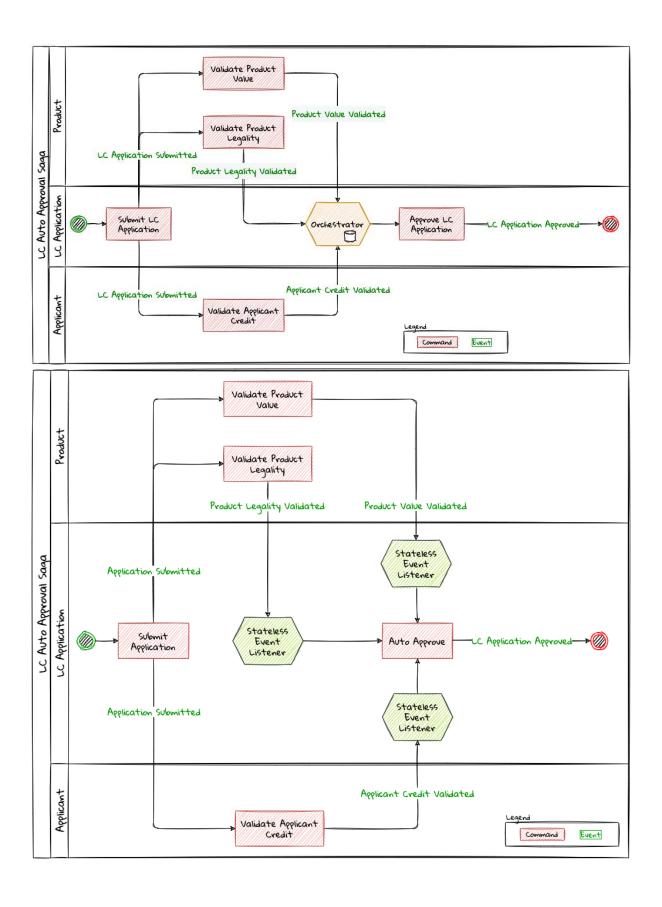


$Beneficiary {\bf Information Change dEvent}$

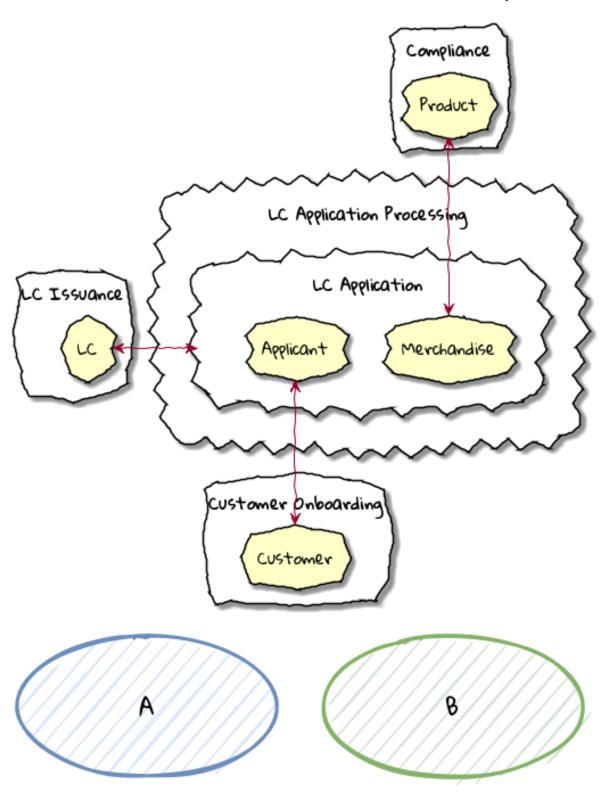


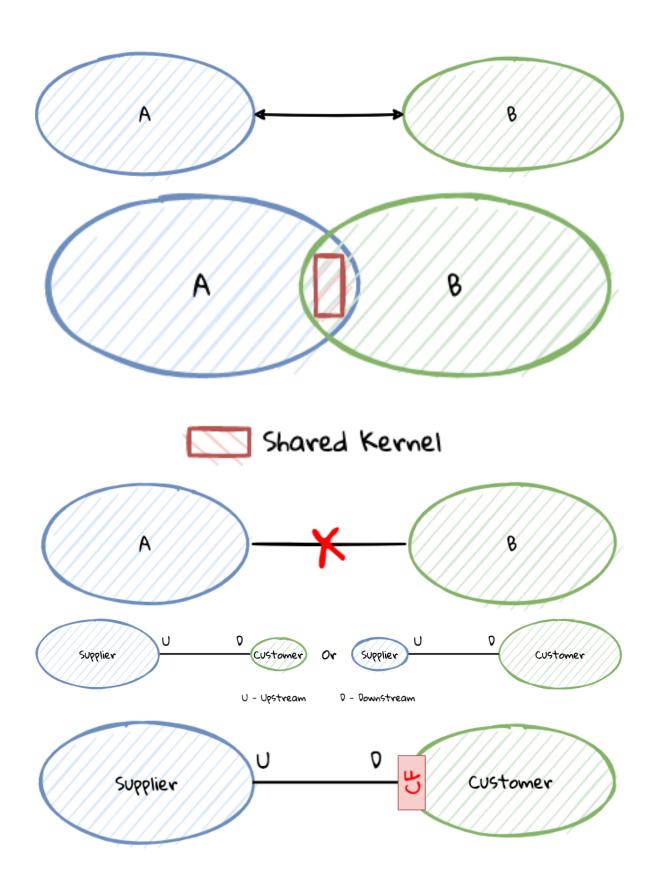
Chapter 8: Implementing Long-Running Flows

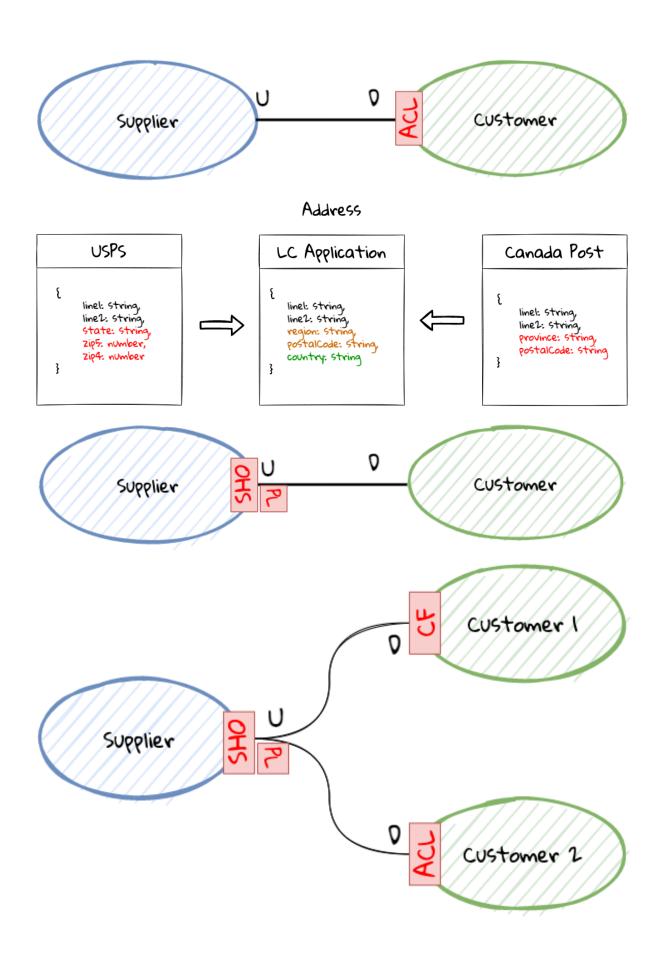


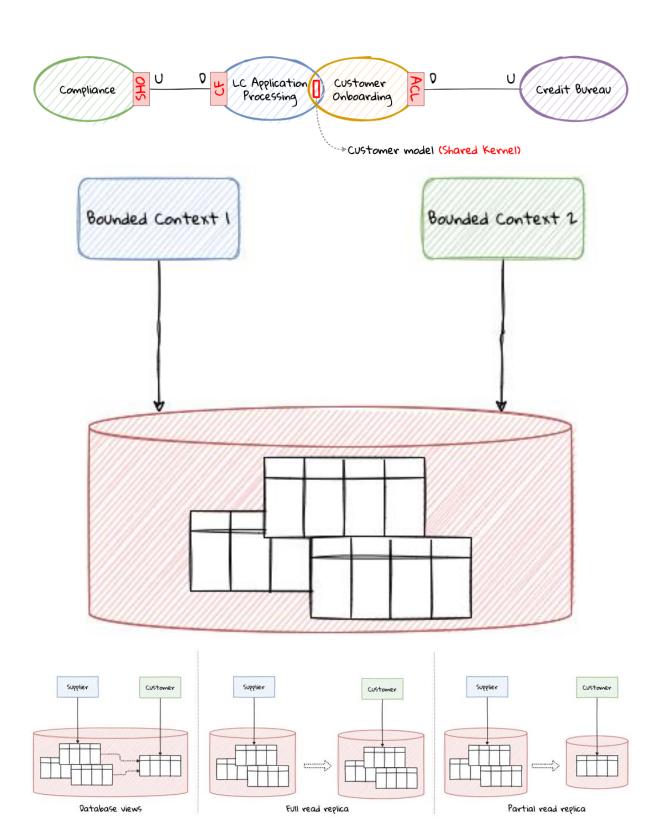


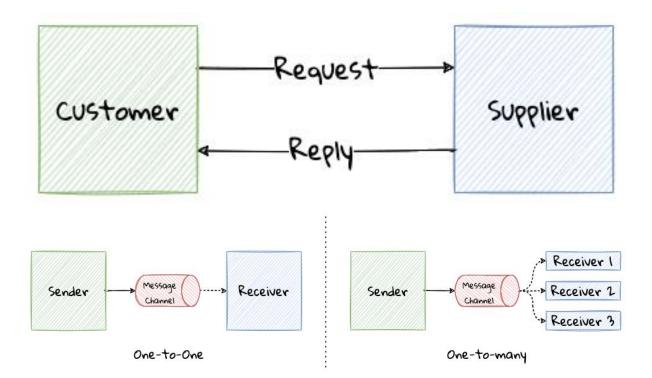
Chapter 9: Integrating with External Systems



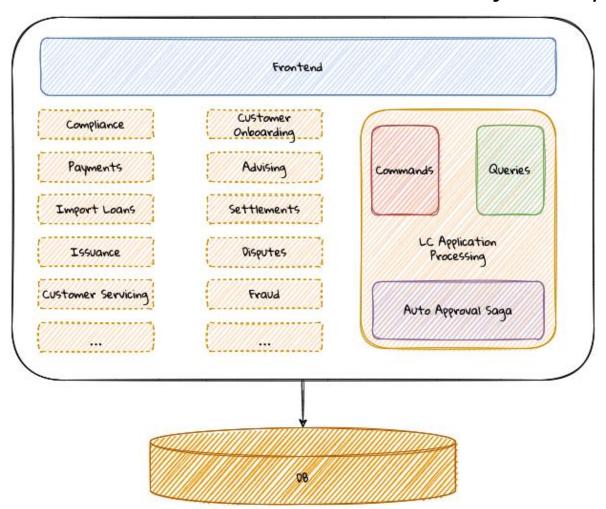


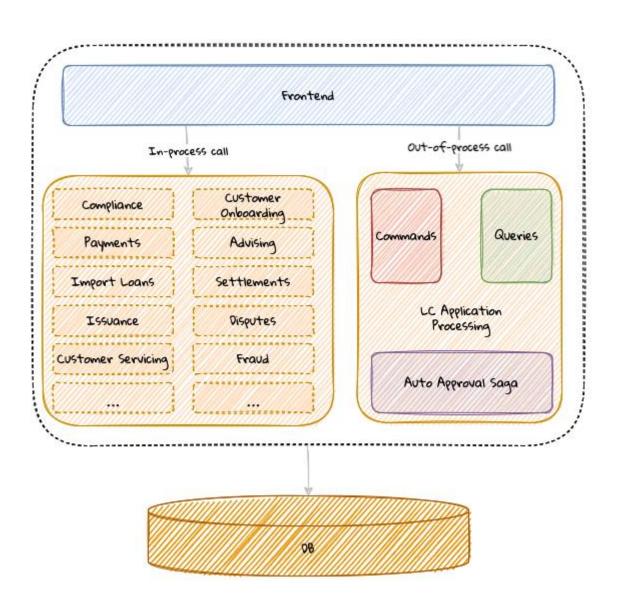


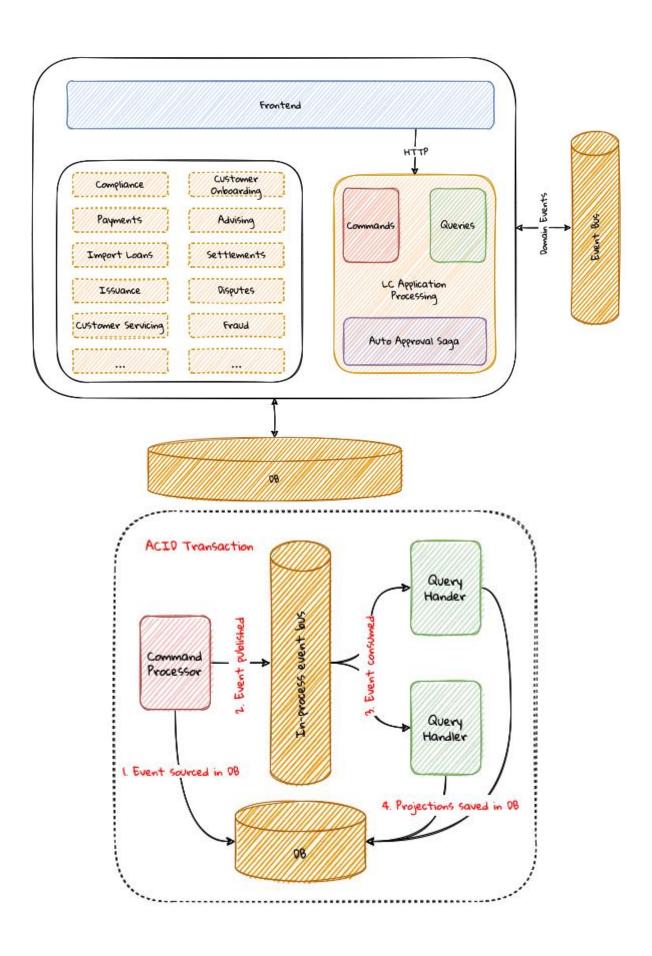


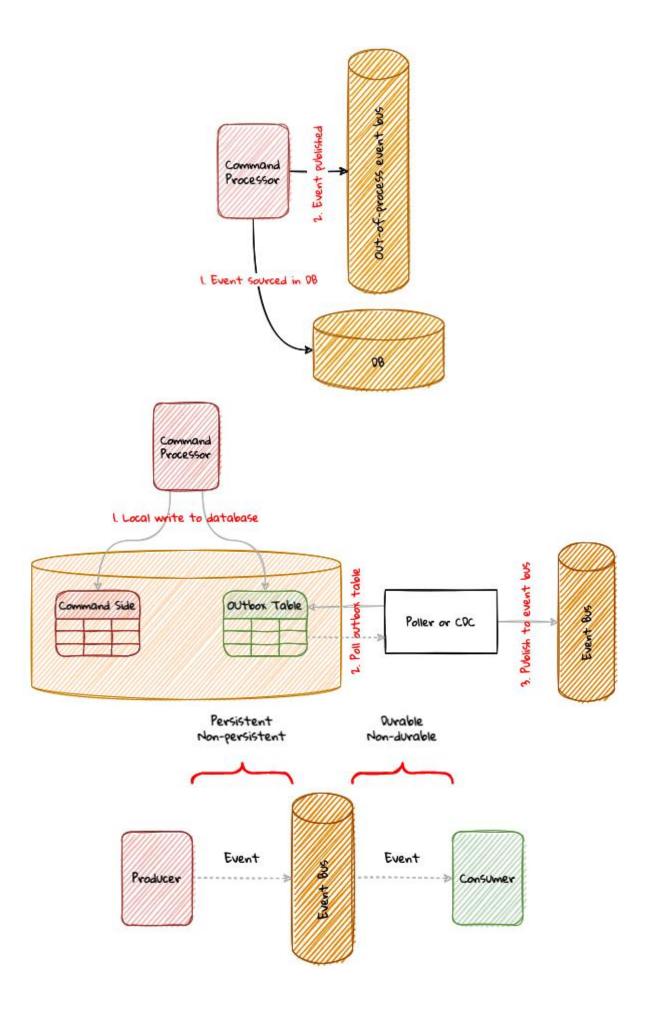


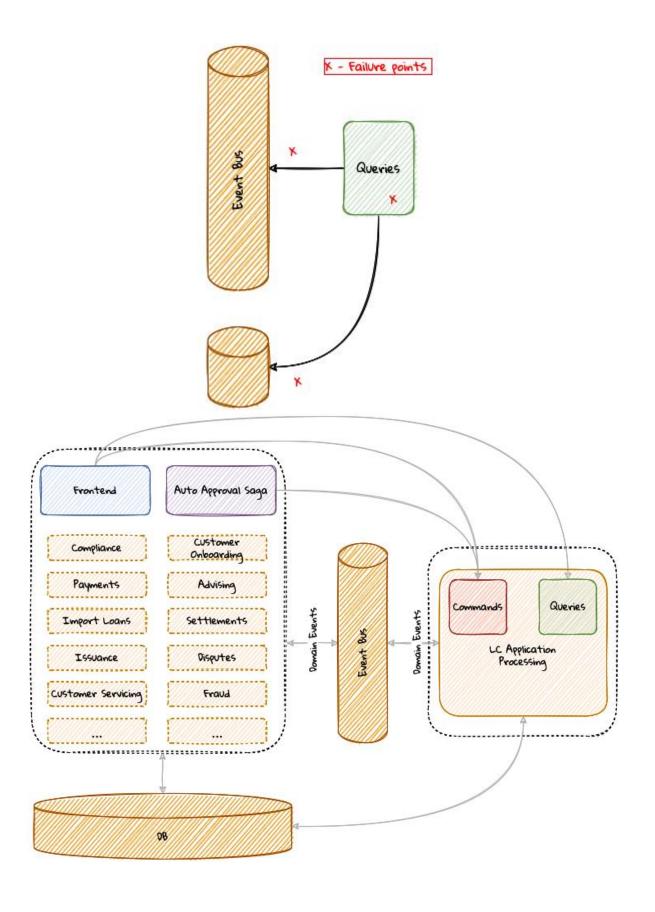
Chapter 10: Beginning the decomposition journey

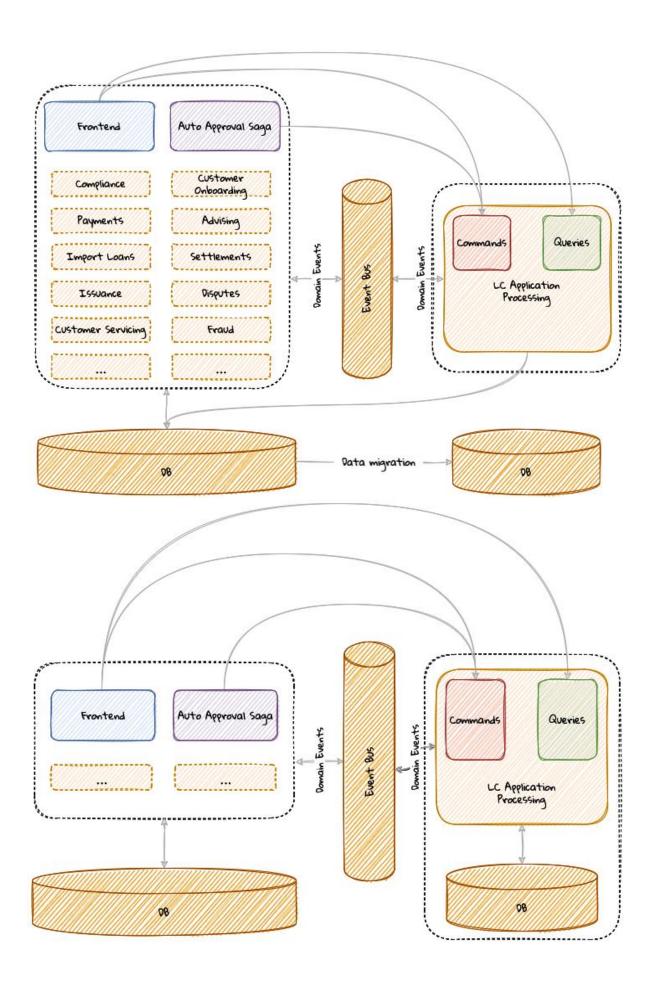




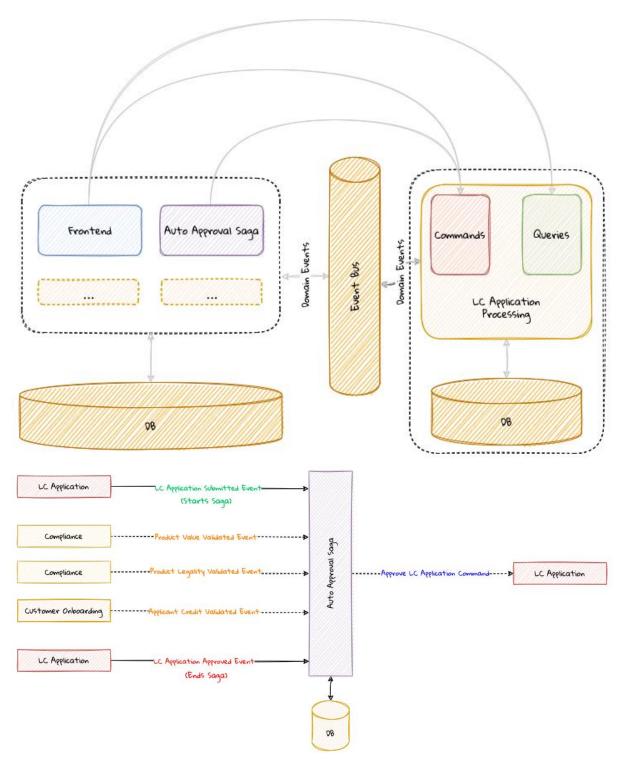


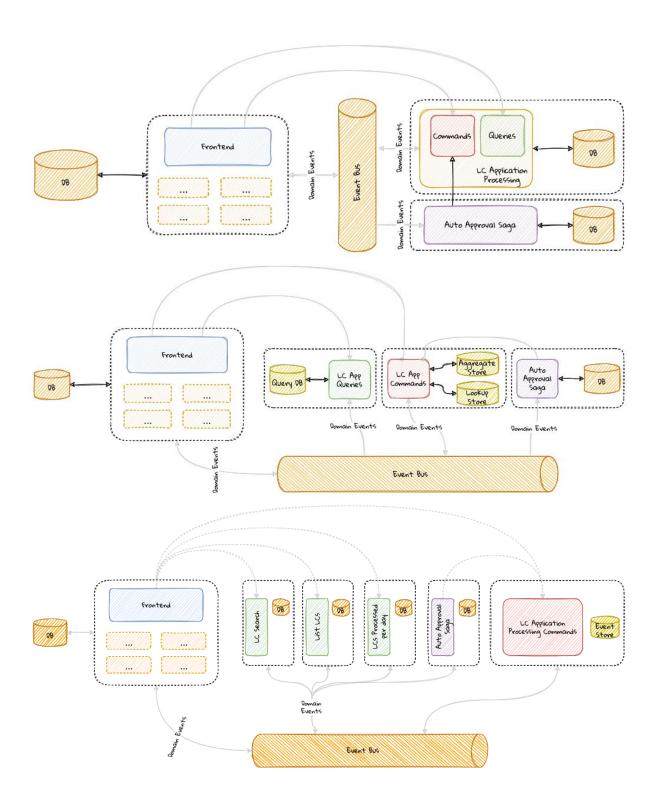


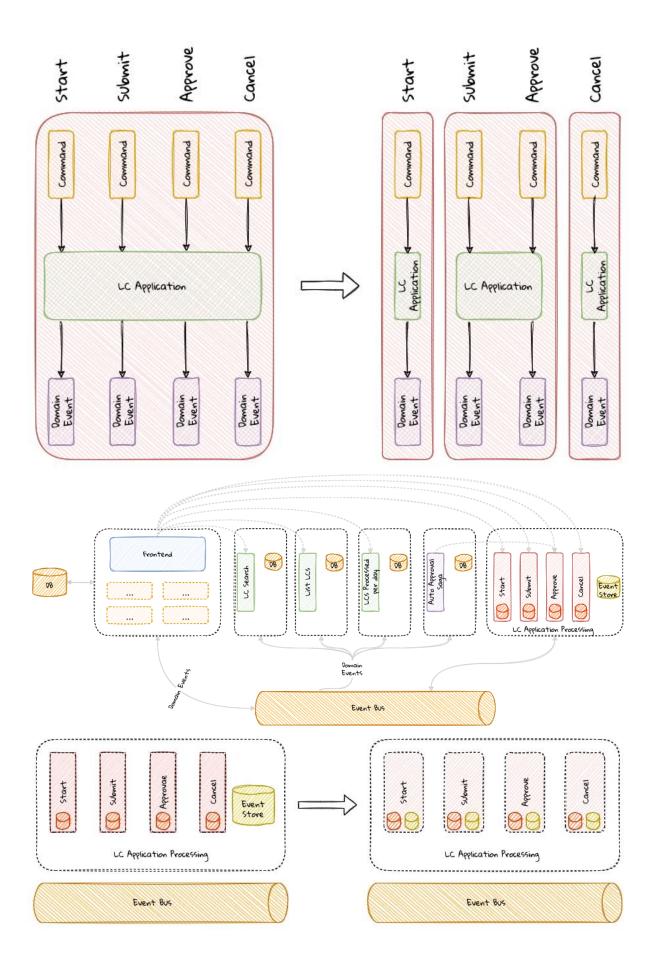




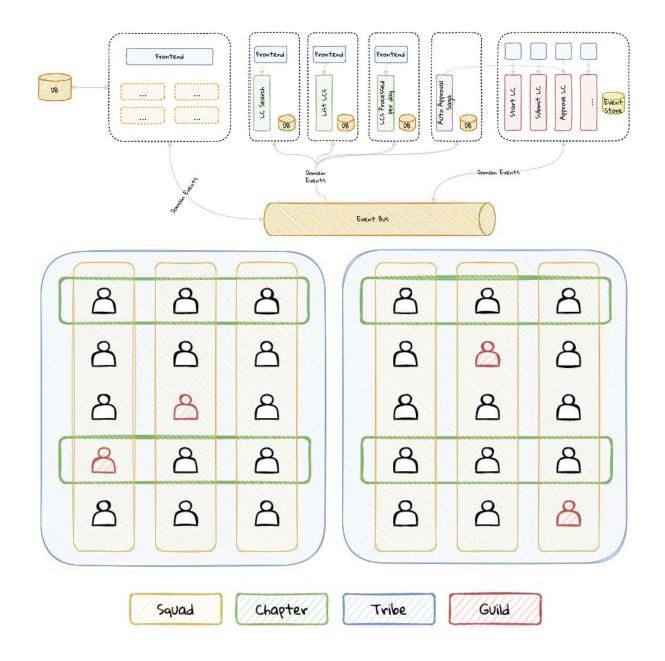
Chapter 11: Decomposing into finergrained components

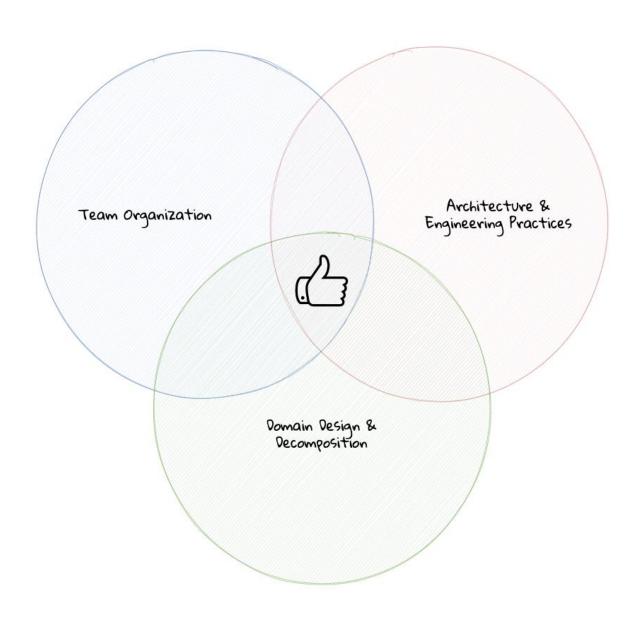




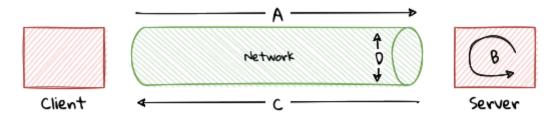


Functional Team(s)	Functional Team(s)	Functional Team(s)		- \
ios	iOS	ios	iOS Application	
Android	Android	Android	Android Application	Frontend
Web	Web	Web	Web Application	
	 			_/
Backend	Backend	Backend		
Functional Team(5)	Functional Team(5)	Functional Team(5)		
ios	ios	iOS	iOS Application	
Android	Android	Android	Android Application	Frontend
Web	Wbb	Mep	Web Application	
Backend	Backend	Backend	=======================================	
	:	i ()	I	





Chapter 12: Beyond Functional Requirements



- A Amount of time taken for a request to reach the server
- B Processing time on the server
- C Amount of time taken for the response to reach the consumer
- 0 Maximum advertised capacity of the network

