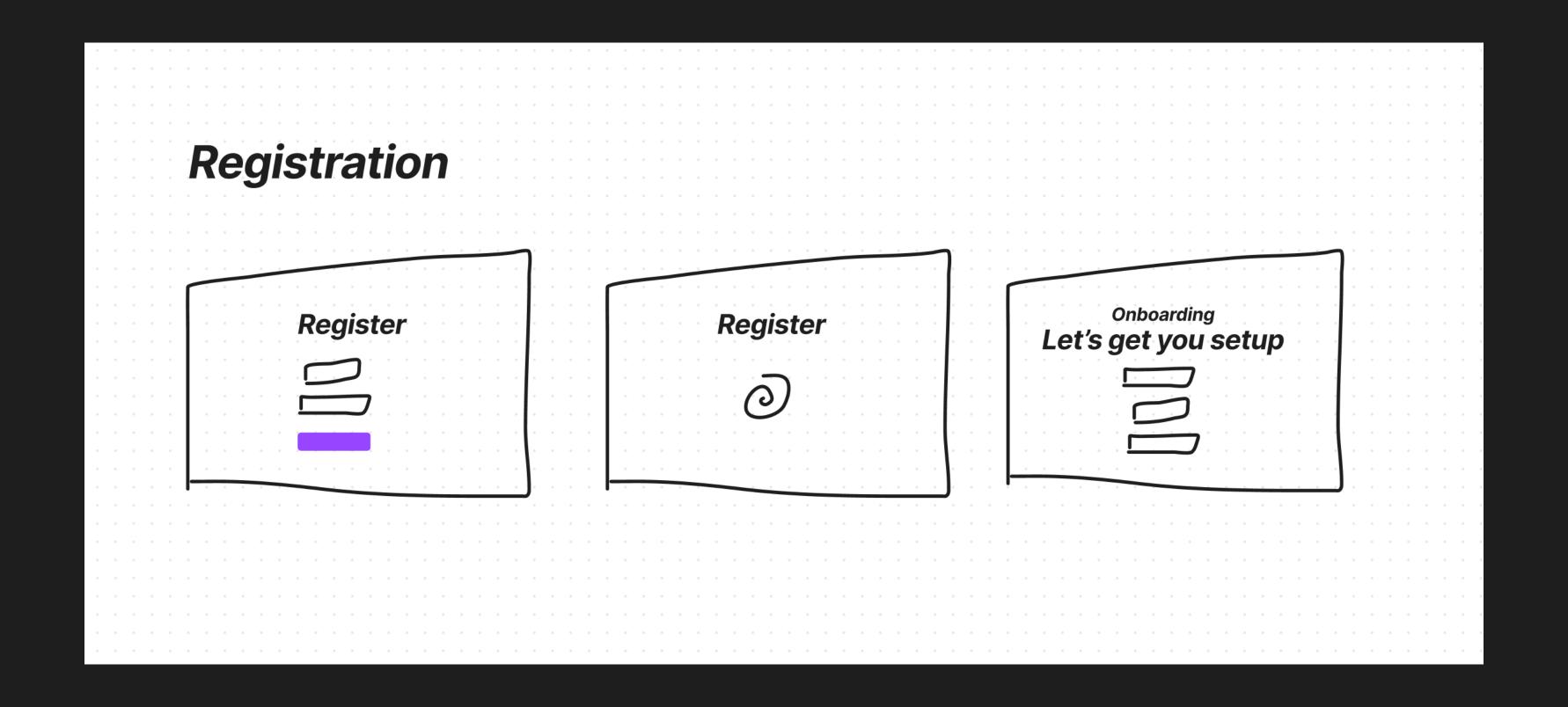


Metaphysical Essential: The Feedback Loop Guesses & The Guess Points





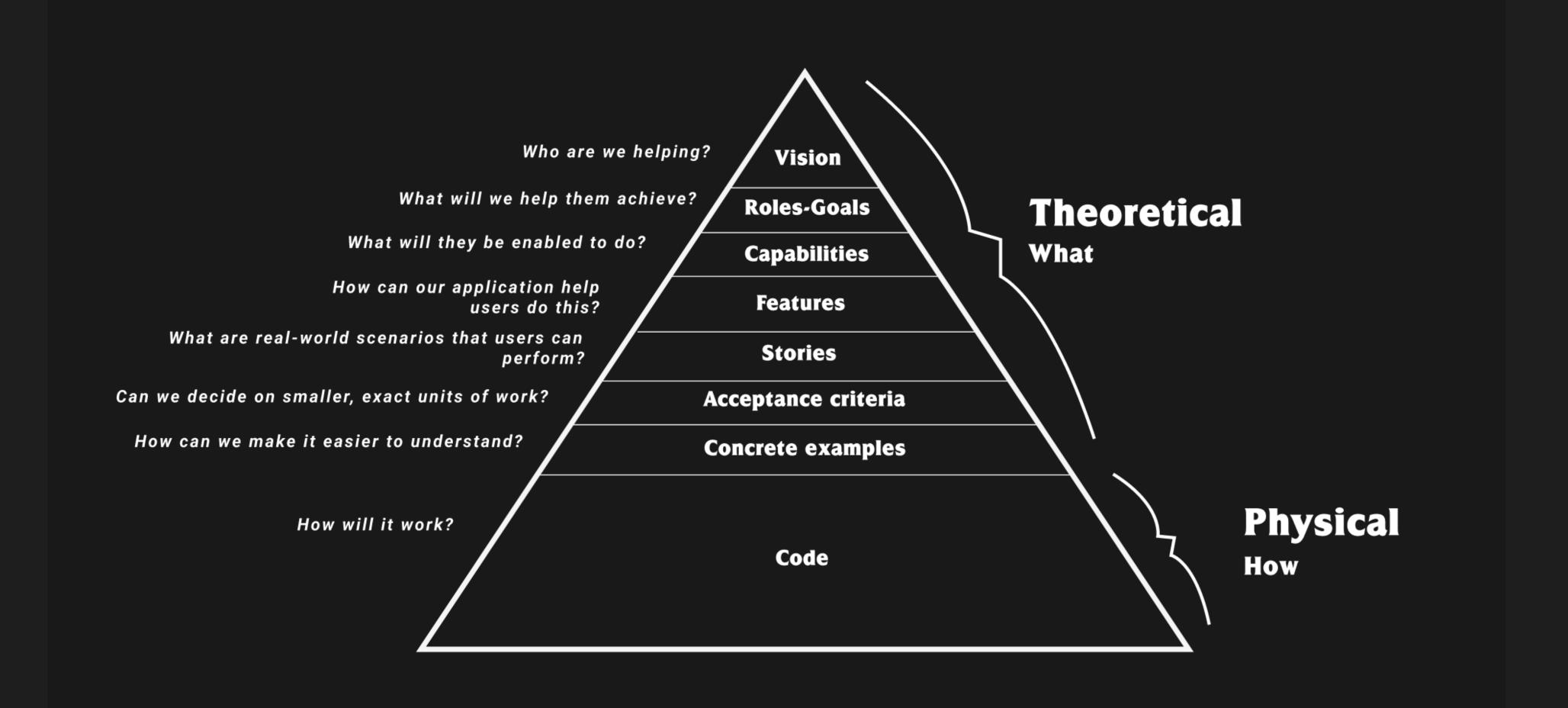
The reality?

Think about all the work that goes into a single set of interactions from frontend to backend to "register", for example

- Presenting the form
- Maintaining the state of the form
- Validating the form locally
- Marshalling the data into an api call
- Making the request
- · Displaying a loading spinner
- Presenting an error if failed

- Presenting the failed form fields
- · Resetting the form fields for a new submission
- Redirecting to the onboarding page when new user
- Knowing if they've completed onboarding or not (redirect to / dashboard)





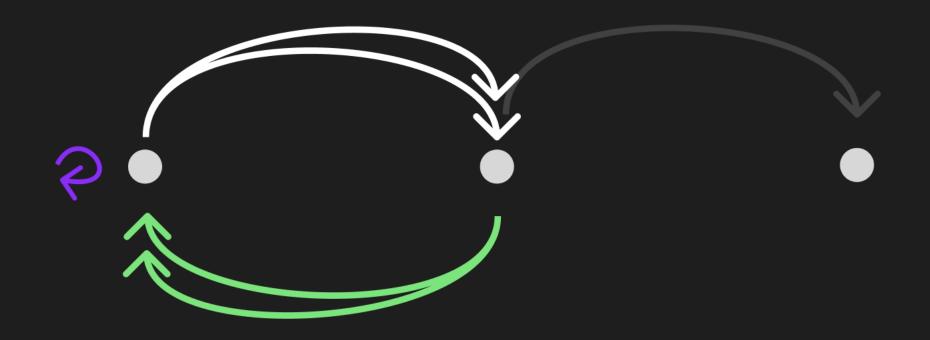
The reality?

We're going to make more mistakes along the way than successes.



Consider this: everything that we do in Software Development is one big Guess.





Metaphysical Essential
The Feedback Loop



What we'll cover

- What is the feedback loop & why is it so important?
- How we can use The Guess Points to practice The Feedback Loop, making it much easier to solve problems and implement your guesses on any side of the stack



So what are feedback loops?

Three Ways

Value-driven software development is a Guess. Every step of the way to working software is uncertain. We need to use Feedback Loops to make the journey.

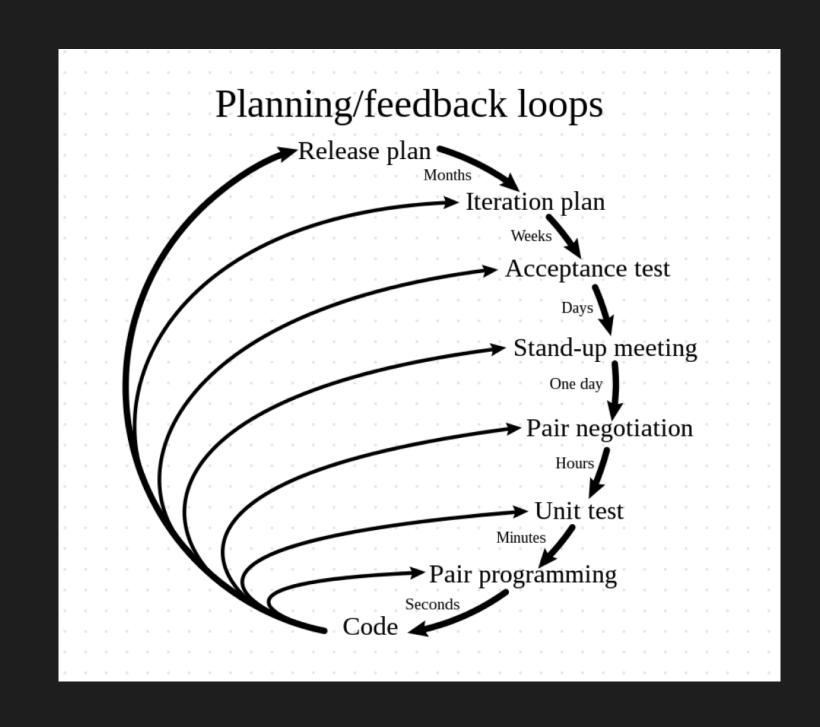
Feedforward Implement the guess

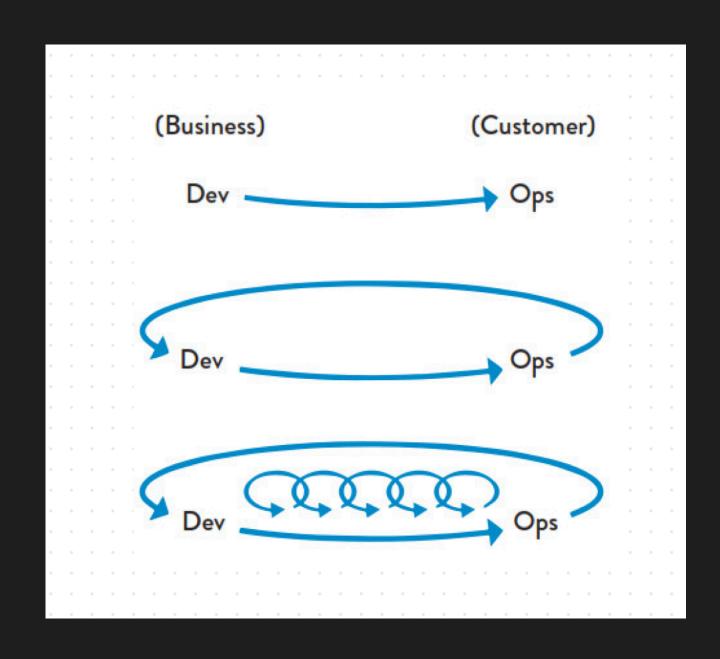
Feedback Learn from the guess

Refinement Make better guesses, faster



It's always been a guessing game





Challenges implementing Guesses

- 1) When we don't know what Guesses we're making
- 2) When we don't know how to validate a Guess
- 3) When we're not using tight enough feedback loops (getting the answers to the Guesses very late)



Introducing The Guess Points

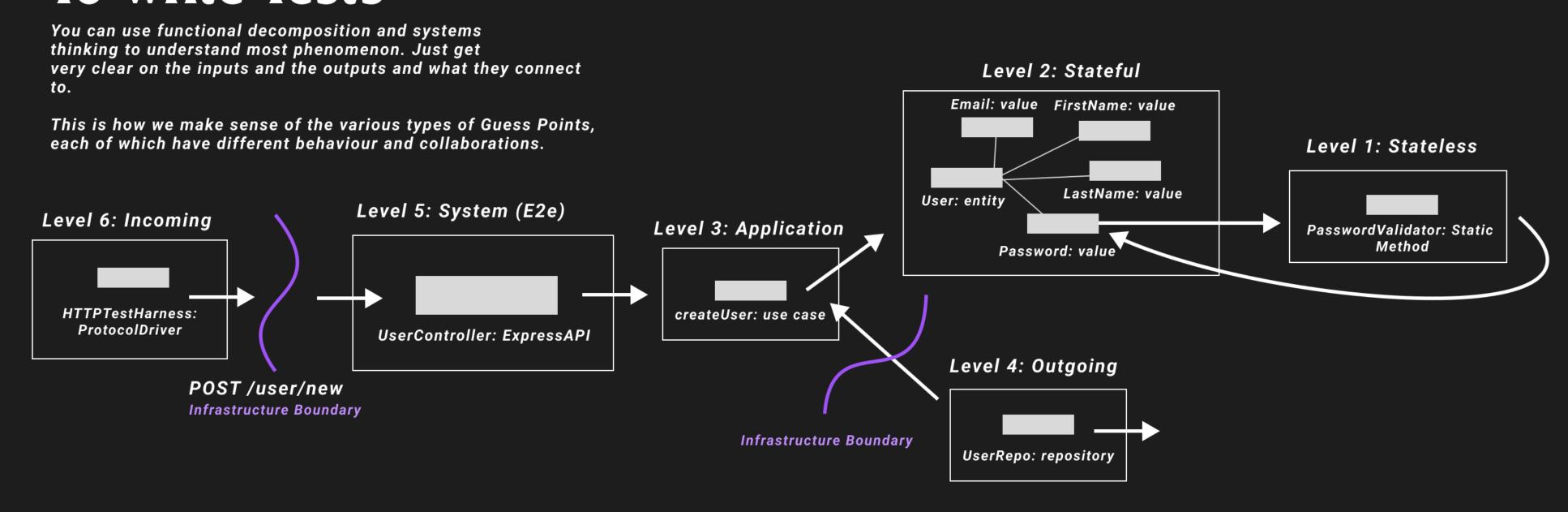
The Value Creation System As value-creating software developers, the sole **Purpose** of all tools, technology, patterns and principles **Guess Points** is to push Software Artifacts of Value across the Value Creation System as fast as possible. **Theoretical** ★ Guess of Value Problem Solution Architecture **Guess Points Physical** out ★ Guess of Value Deploy Execute E2E Outgoing Stateful Incoming Application Stateless Software Artifact

from the customer Who are we helping? What are we trying achieve? **Problem** The What will they be able to do? **Theoretical Capabilities** Role-Goal **Guesses Points** The "Who-What-What" How can we help? What will we build? What are the scenarios we need to Solution build? Can we come up with some concrete examples? Acceptance Criteria Examples **Features** Stories What does the system need to be able to do? How should it "be"? What are the responsibilities Architecture that need to be handled? Which architectural components will play those roles? Architectural Requirements (Functional & Roles, Responsibilities, Components (Systems, Libraries, Frameworks, Services, Patterns) Collaborations Non-Functional)

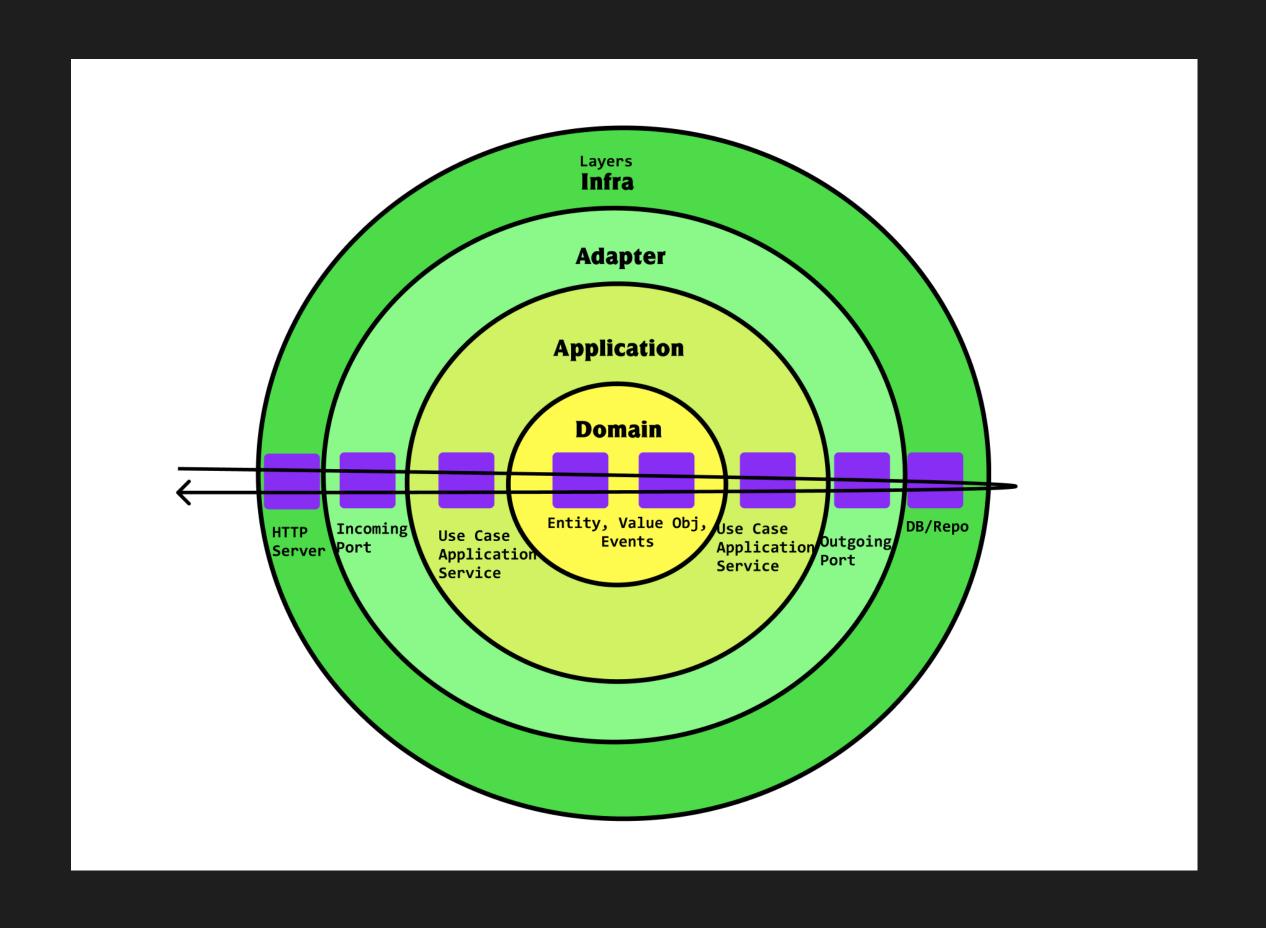
To the Physical



Mental Model: Systems Thinking & The Guess Points Understanding How & Where To Write Tests



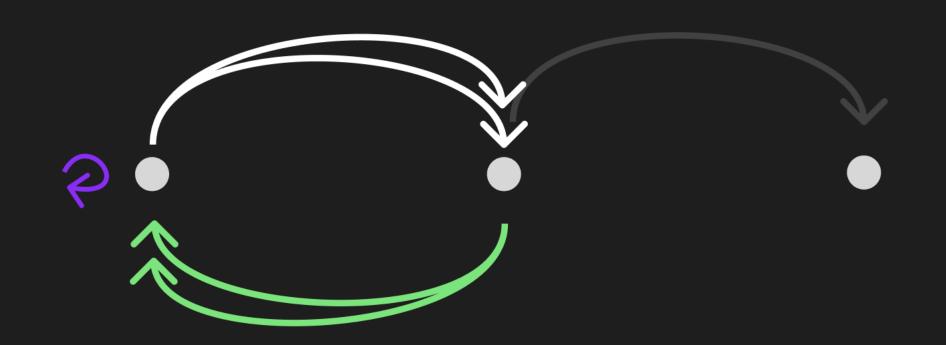
Q: How do you know the physical guess points? Where does that come from?





Q: Are there more guess points? Or is that it?

What we covered



Metaphysical Essential
The Feedback Loop

Every single aspect of software development is a Guess.

Do our API calls work?

Are we missing any edge cases?

Are we saving to the database properly?

Will this architecture serve us in the long-term?

Does this feature do what the Customer wants?

Will users actually use this?

It's all a Guess.

The only way to progress is 3 Ways: Feedforward, Feedback, and Refinement.

Declare the end result, take a leap forward, use the feedback to refine.

