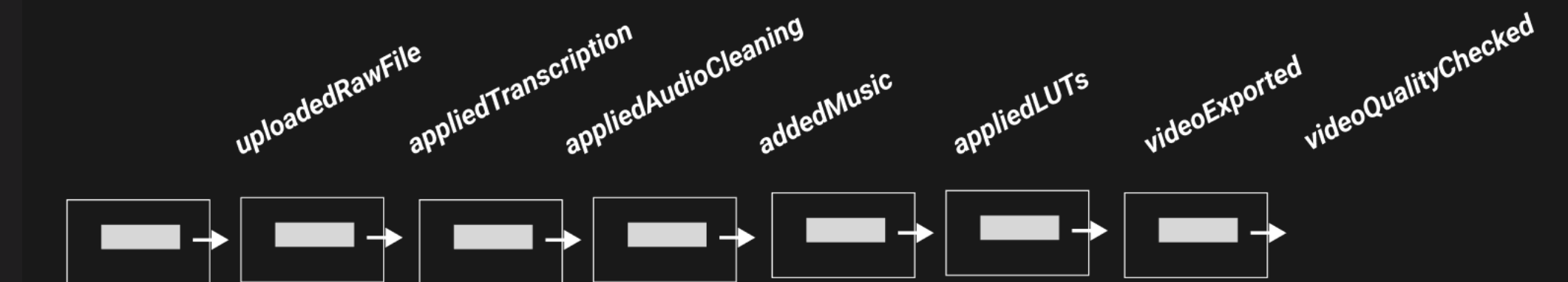
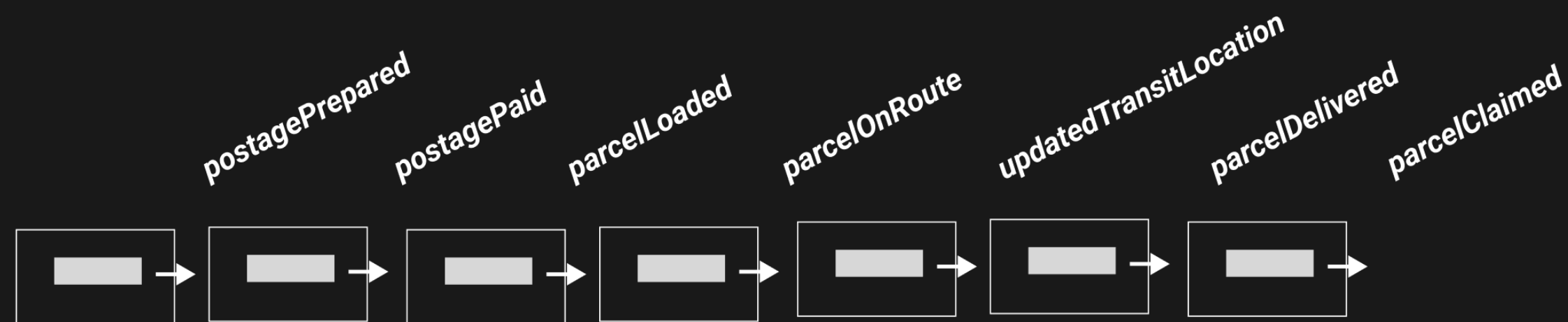




Systems Thinking (The Most Important Mental Model for Developers)

**What does mailing a
package and editing a
video have in common?**

They can both be broken down into systems...



...and Systems Thinking is vital for every software developer

What we'll cover

- *What is Systems Thinking & how does it work?*
- *Why is it so powerful to us as developers?*

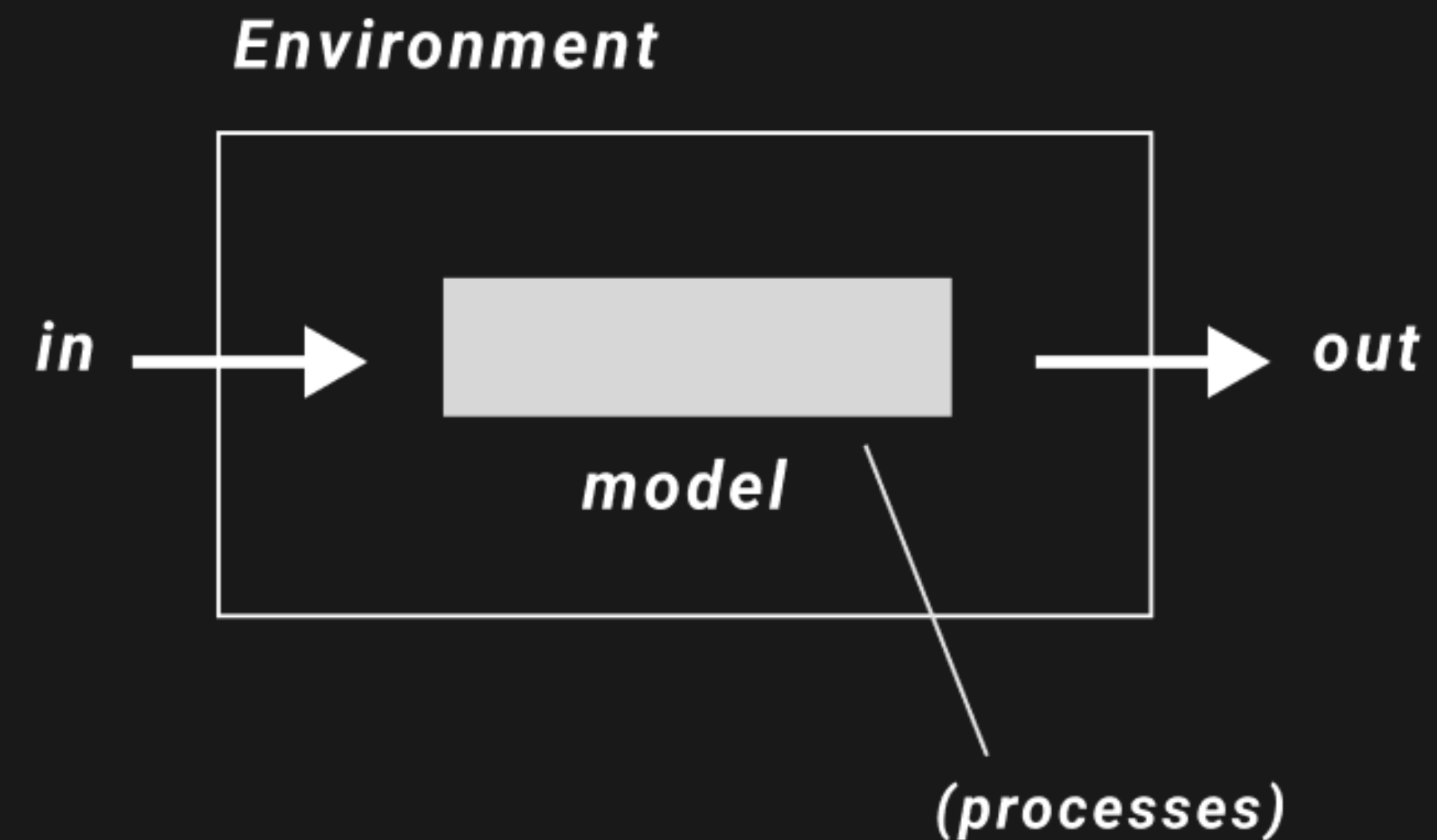
What is a system?

Systems Thinking

General

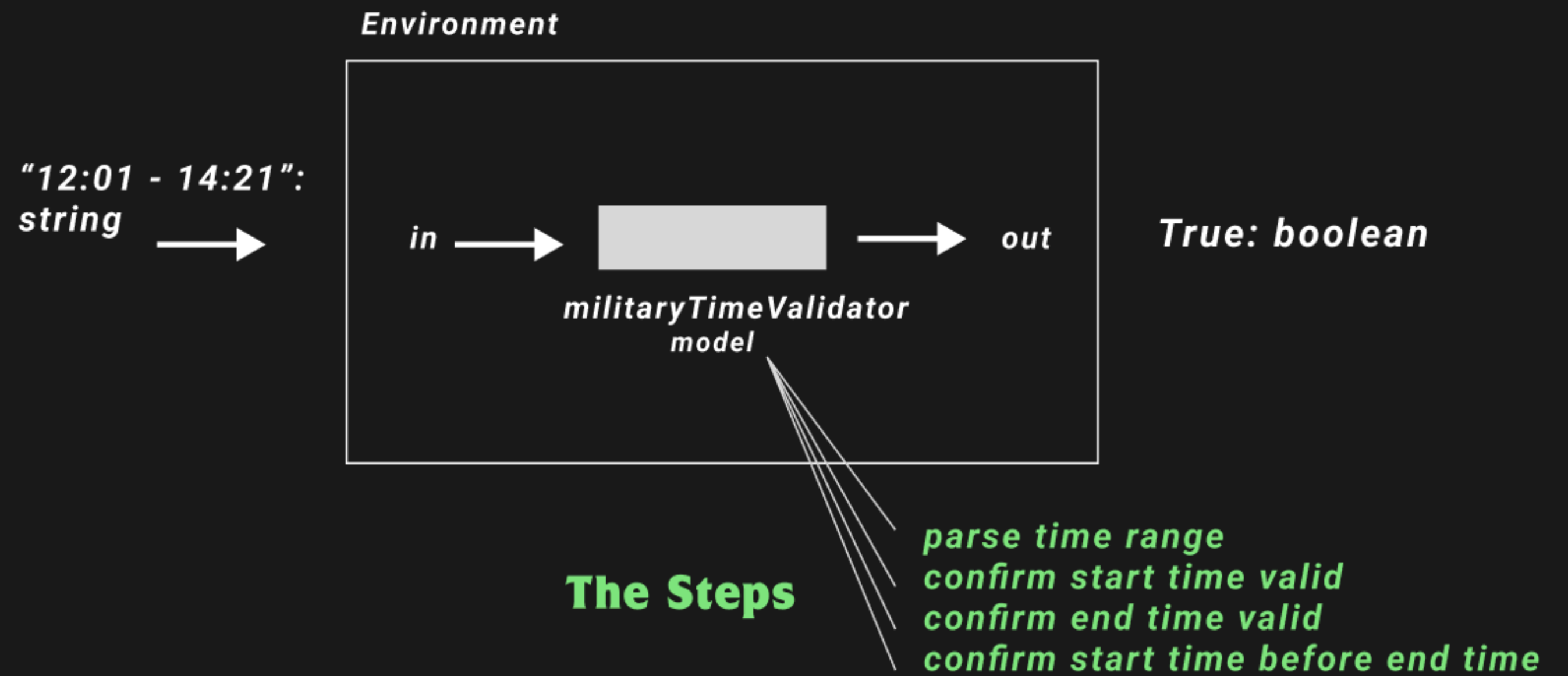
You can abstract most things into systems comprised of a set of:

- *inputs*
- *outputs*
- *the environment it resides*
- *the model/processes it runs*



**The world is a patchwork of
systems**

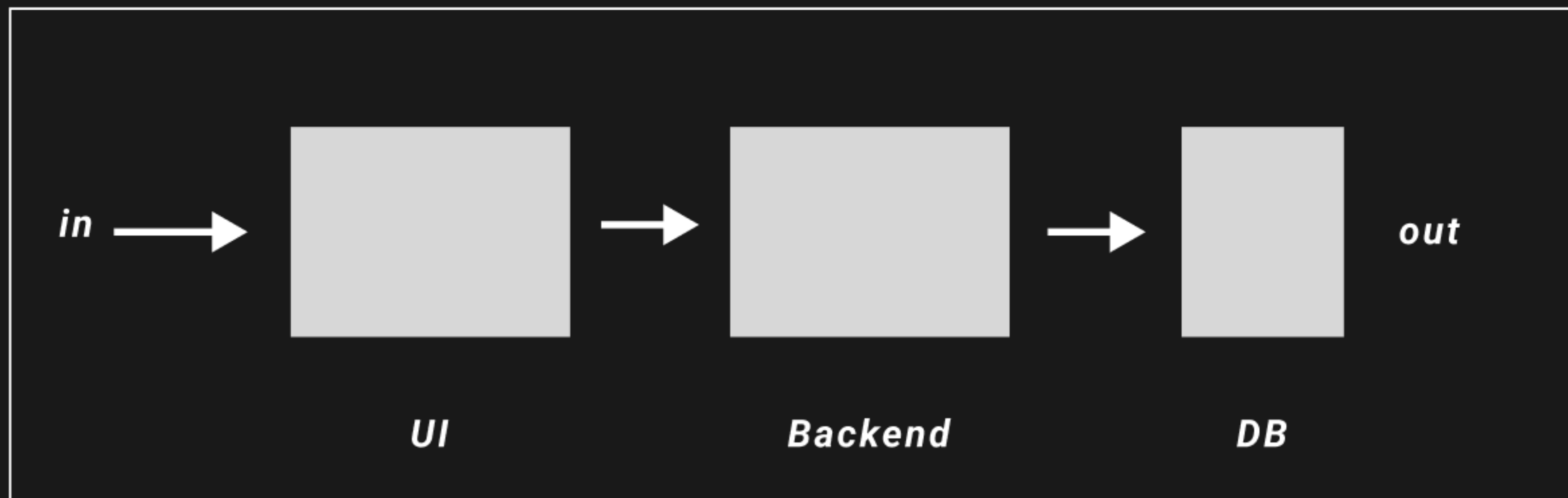
```
function militaryTimeValidator (time: string): boolean {  
  let isValid = false;  
  // Validate  
  return isValid  
}
```



Systems Thinking

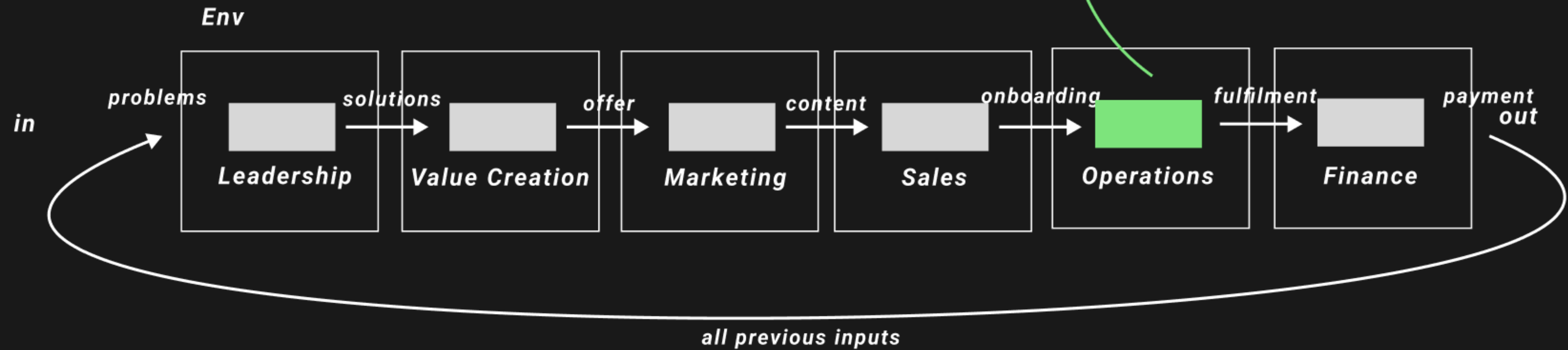
Your Application

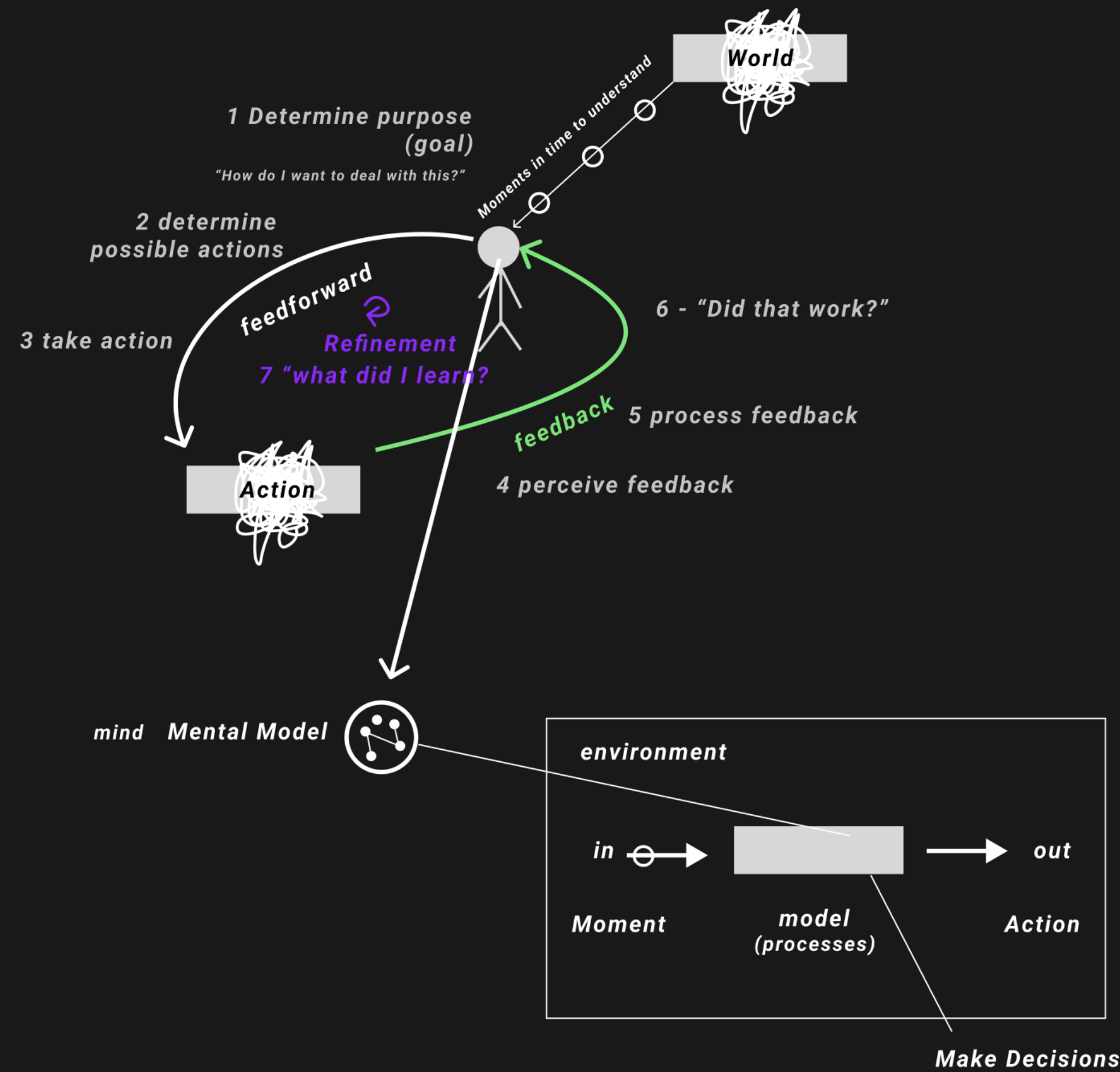
Environment



Business Systems

A business is a system where Value is the fuel and it takes on different forms (solutions/ideas, offers, content, fulfillment, payment, etc).





"MASTERY IS WHEN YOU
CONTINUALLY TAKE
RIGHT ACTION"

The purpose of a system is to achieve a goal

- *Mailing a package?*
 - *Package not mailed → packageMailed*
- *Editing a video*
 - *Acquired video files → exportedEditedVideo*
- *Validating text*
 - *Raw text received → textValidated*

Why is this so powerful for developers?

- *1 / Problem Decomposition*
- *2 / Debug-ability*
- *3 / Refinement & learning*

What we covered

**What's OUR goal as
developers? What's the system
there?**

Let's get clear on this next.