Project Update

Zells
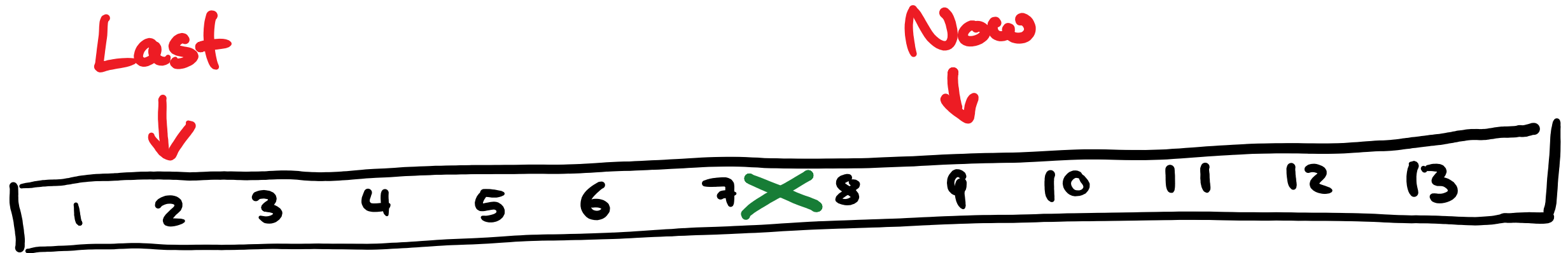
Nikolas.M@rtens.org

2018.10.17
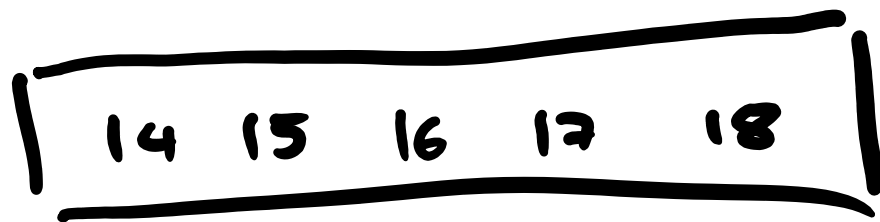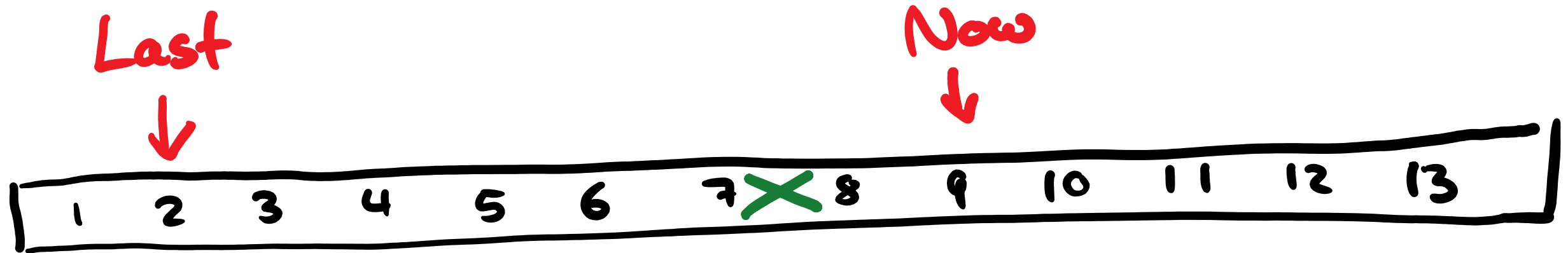
Overview

1 2 3 4 5 6 7 8 9 10 11 12 13

Overview

Overview

Last

Now

1 2 3 4 5 6 7 ✗ 8 9 10 11 12 13

14 15 16 17 18   Extension

Goal

Goal

Programming Platform (Model + UI)

Goal

Programming Platform (Model + UI)
avoid accidental complications

Goal

Enable Software Literacy

Programming Platform (Model + UI)
avoid accidental complications

Status

Status

research of past & current projects

Status

research of past & current projects

4 demos recorded

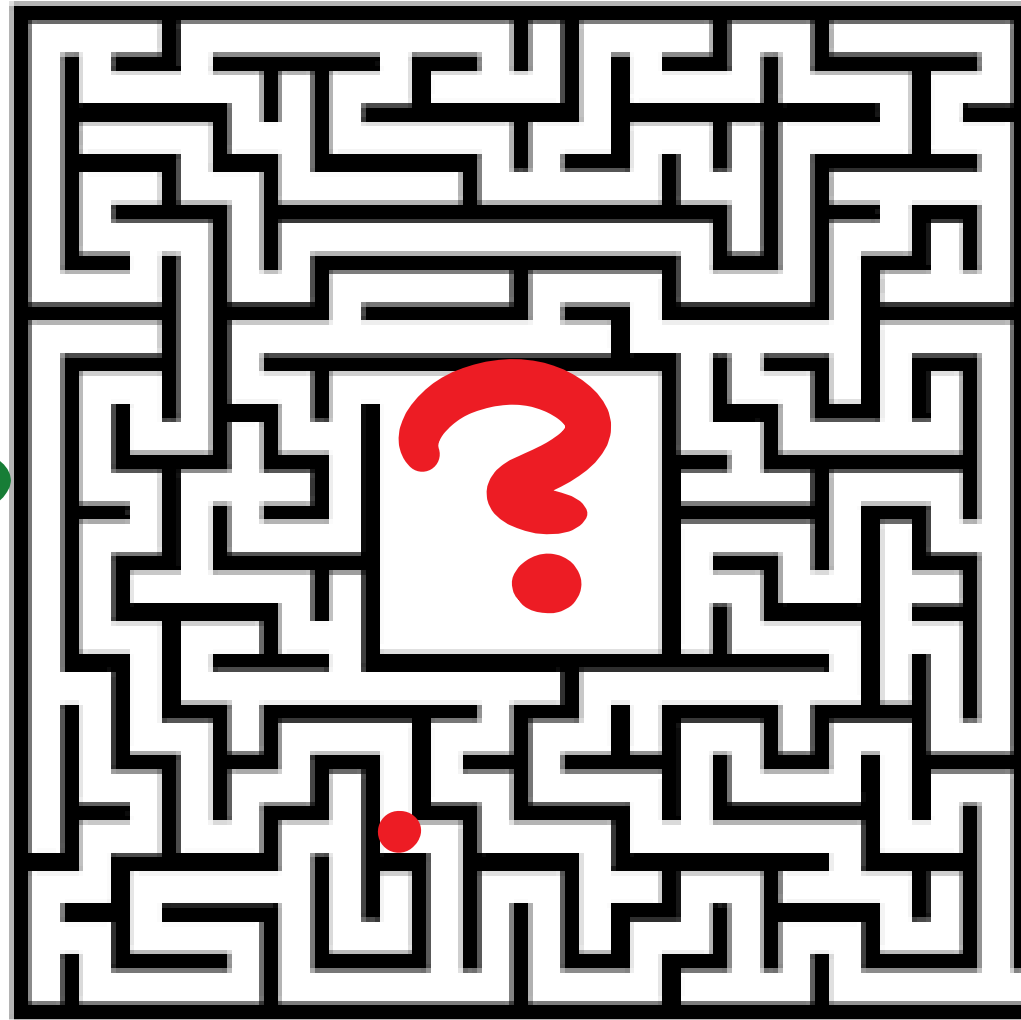# Status

research of past & current projects

4 demos recorded

total transparency → notes & journal

Status

research   t projects

4 demo   journal

total trans

Model

User Interface

Model

similar to Actors

Model

similar to Actors

concurrent, encapsulated entities

Model similar to Actors

concurrent, encapsulated entities

asynchronous message passing

Model similar to Actors

concurrent, encapsulated entities

asynchronous message passing

directed vs. undirected messages

Model similar to Actors

concurrent, encapsulated entities

asynchronous message passing

directed vs. undirected messages
(mailboxes)

Model protocol stack

Model   protocol stack

Node

Model protocol stack

Node: receive(Signal: bit*)

Model protocol stack

Node : receive (Signal : bit*)

no send-message

no create-actor

no next-behavior

Model protocol stack

Node : receive (Signal : bit*)
Mesh

Model protocol stack

Node: receive(Signal: bit*)

Mesh: broad-cast Messages

Model protocol stack

Node : receive (Signal : bit*)

Mesh : broad-cast Messages

Composition, Abstraction, Behavior
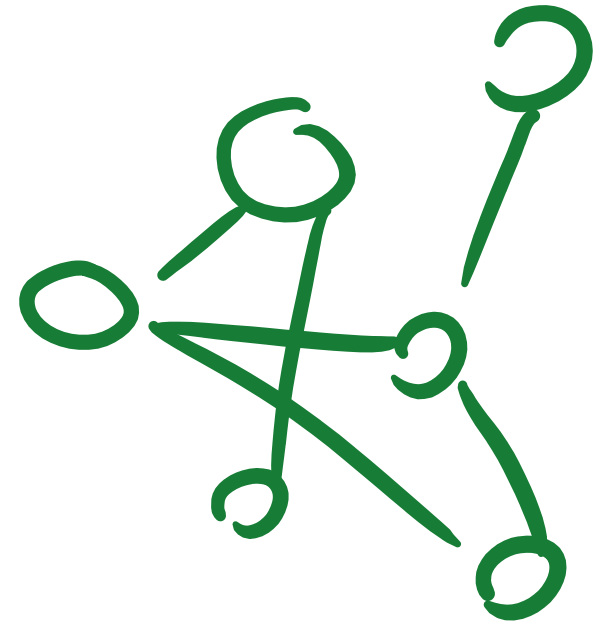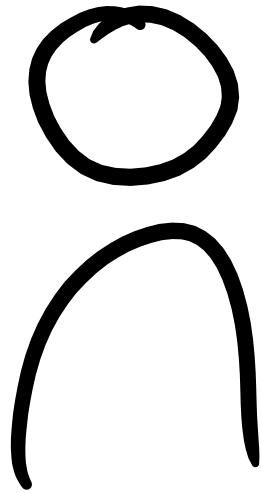
Model protocol stack

Node: receive(Signal: bit*)

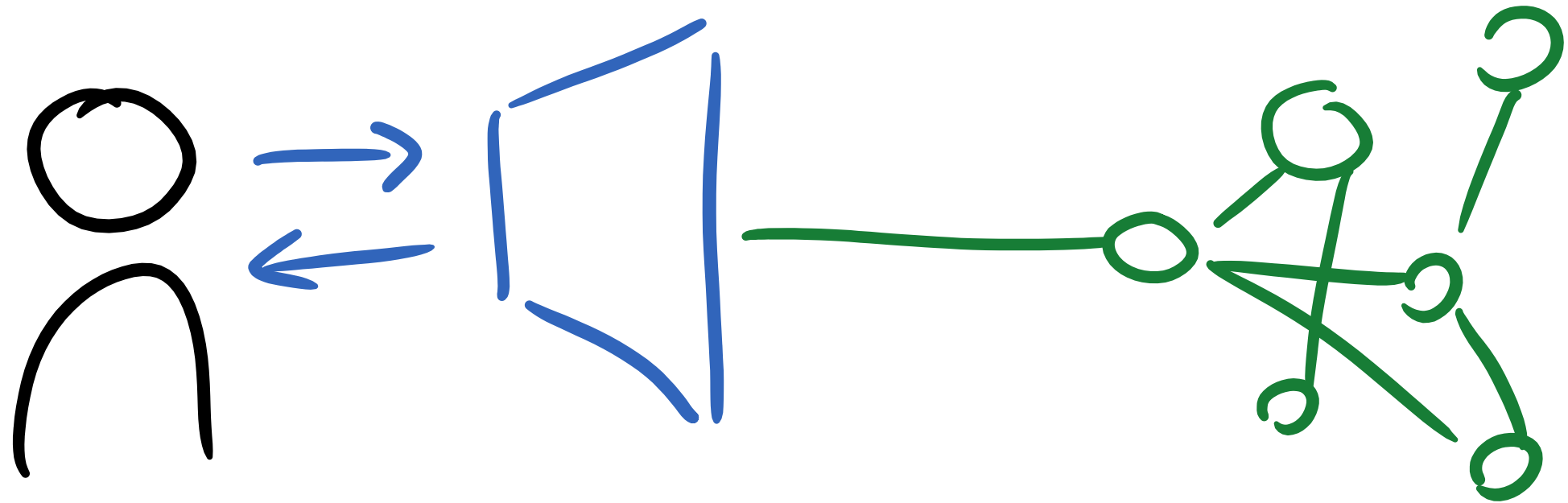Mesh: broad-cast Messages

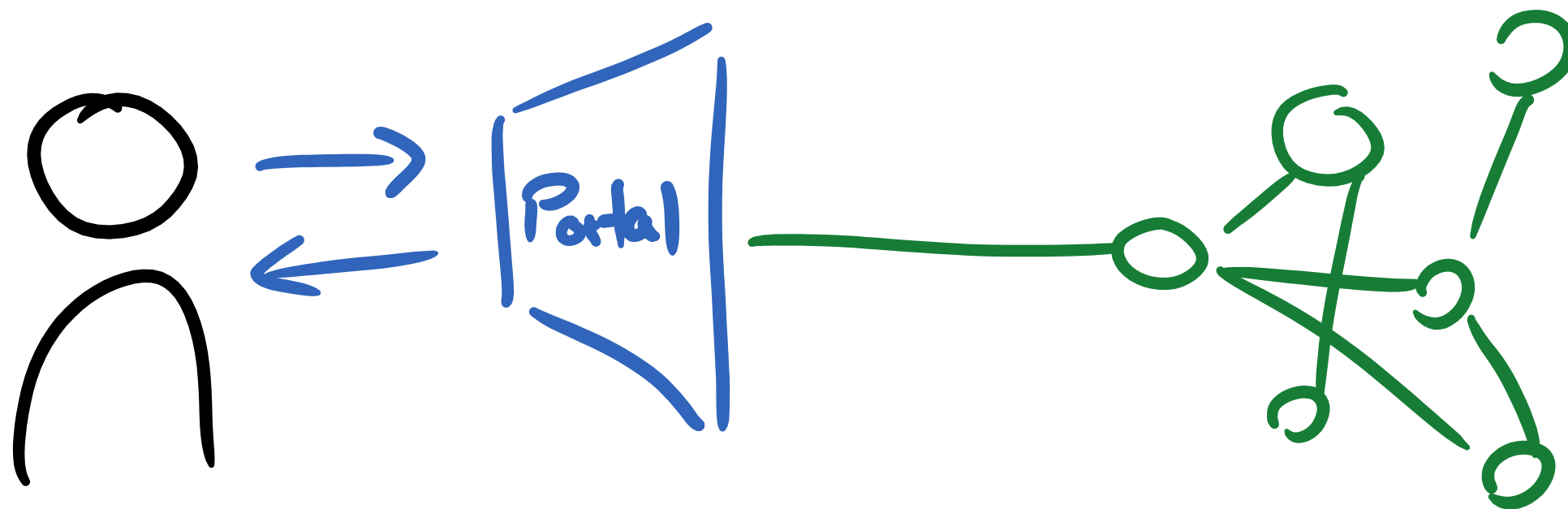Composition, Abstraction, Behavior

→ HTTP of Actors
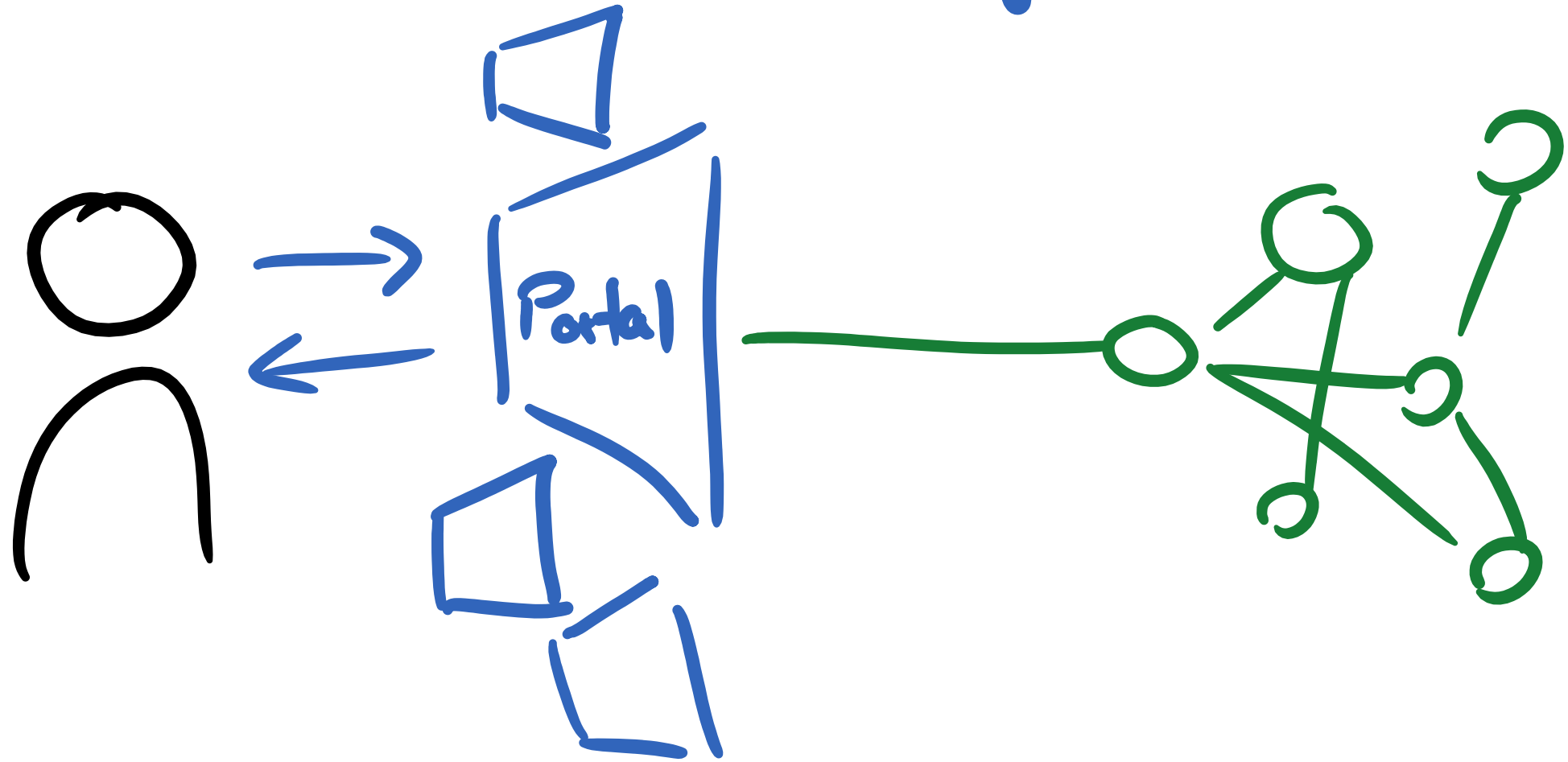
User Interface

User Interface
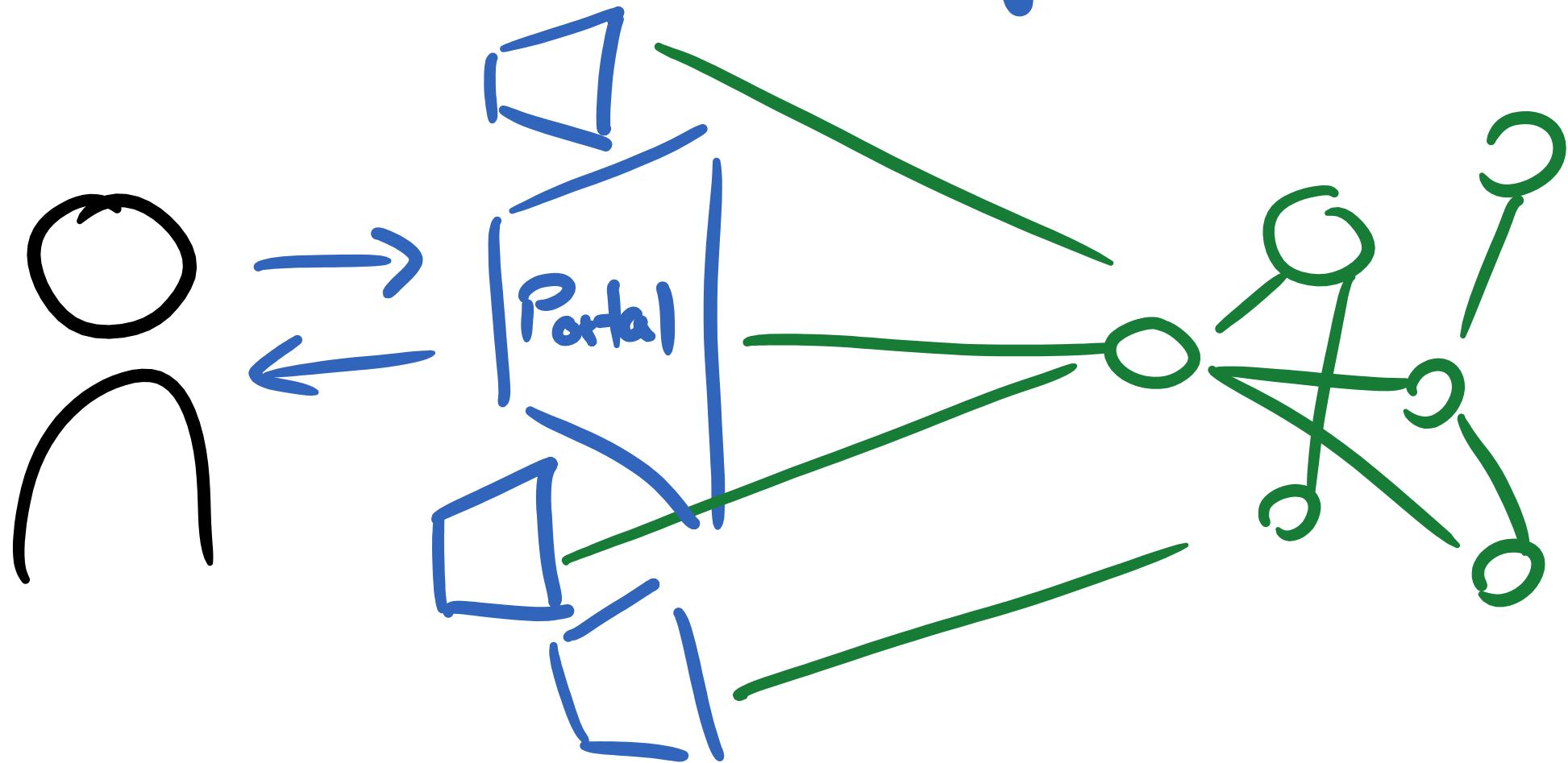
User Interface

User Interface

User Interface

User Interface

Plans

Plans

More demos

Plans

More demos: 3+4, Fibonacci, Binary Search

Plans

More demos: 3+4, Fibonacci, Binary Search

Explore

Plans

More demos: 3+4, Fibonacci, Binary Search

Explore: conversational programming

Plans

More demos: 3+4, Fibonacci, Binary Search

Explore: conversational programming

fork/merge abstraction

Plans

More demos: 3+4, Fibonacci, Binary Search

Explore: conversational programming

fork/merge abstraction

smallest protocol (kernel)

Outlook

Outlook

Funding

Outlook

Funding: public, private, crowd

Outlook

Funding: public, private, crowd

Publication ?

Zells.org