



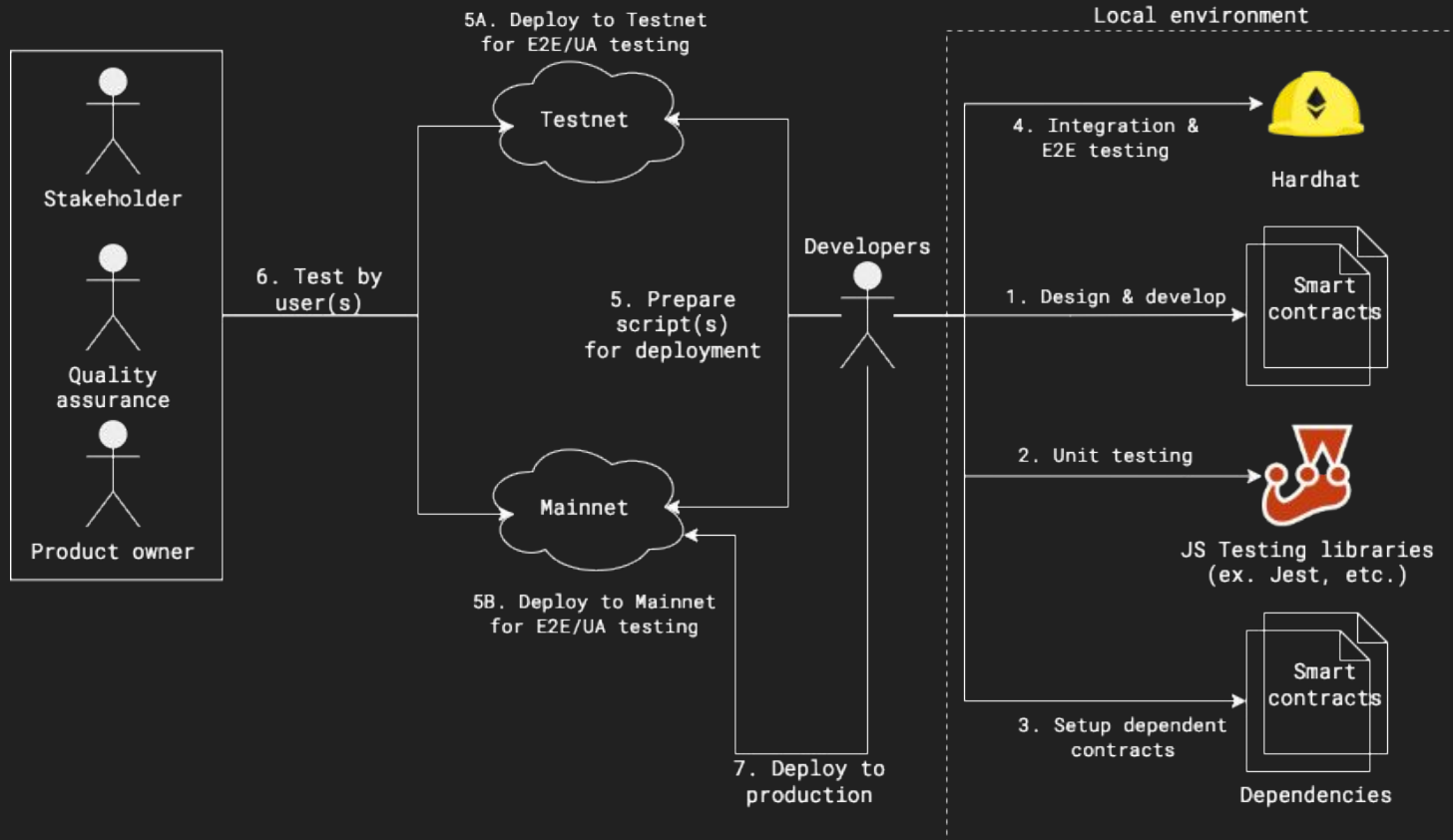
Pitch Deck

Background & Problems

Problem Statement

- Conventional end-to-end (E2E) testing approaches for Ethereum Virtual Machine (EVM) projects on testnets or mainnets are *inconvenient*
 - **Testnets**: Sometimes lack the **required dependencies** to run the projects, leading to increased overhead during preparation
 - **Mainnets**: can be **expensive**, can't manipulate state on real contracts and the blockchain state **cannot be easily restored**
- The testing process usually also requires the *help of Solidity engineers* to assist with environment setup and scenario execution

Conventional Development & Testing



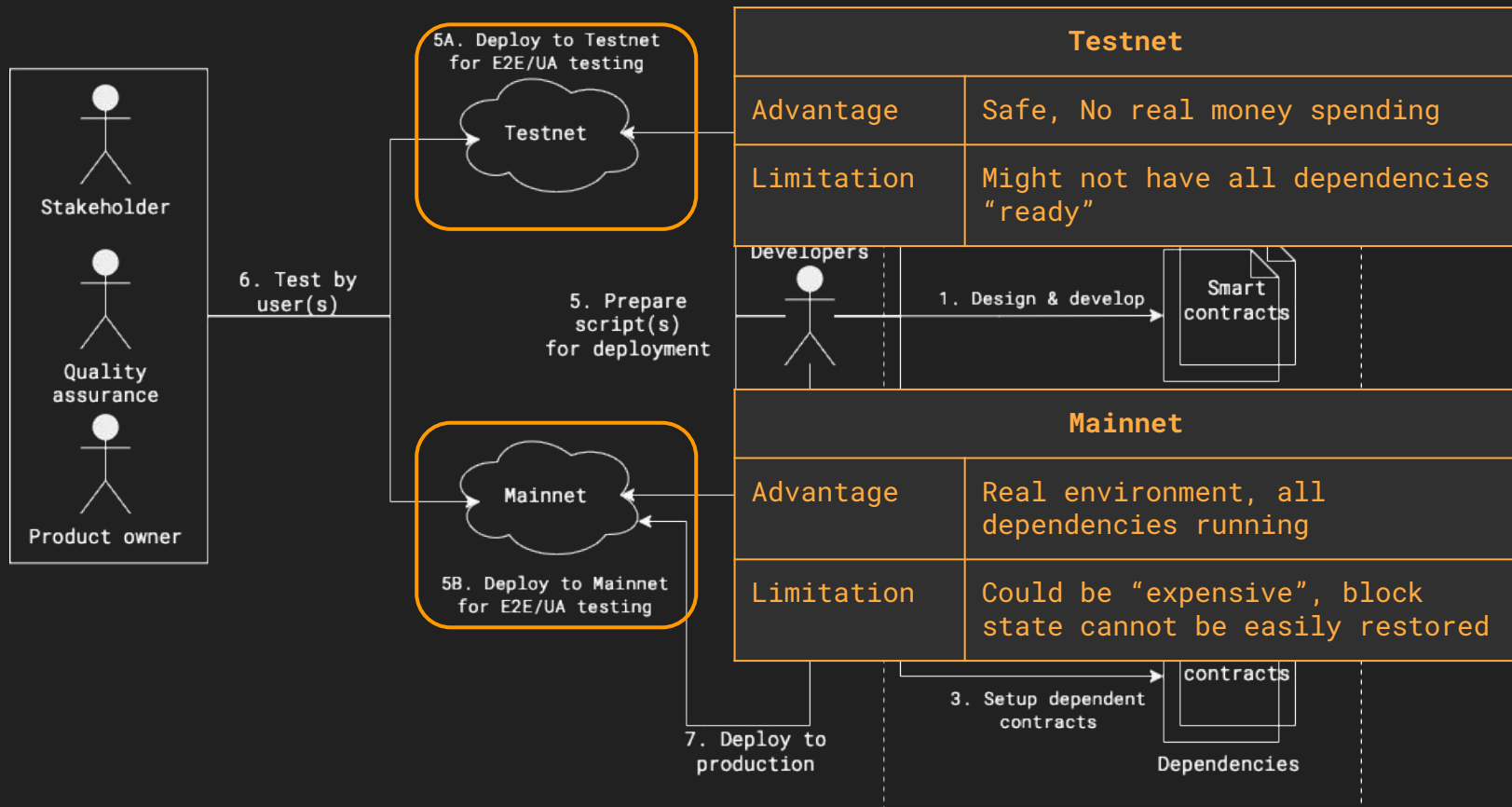
However ...

We found 2 main problems from the development and testing flow

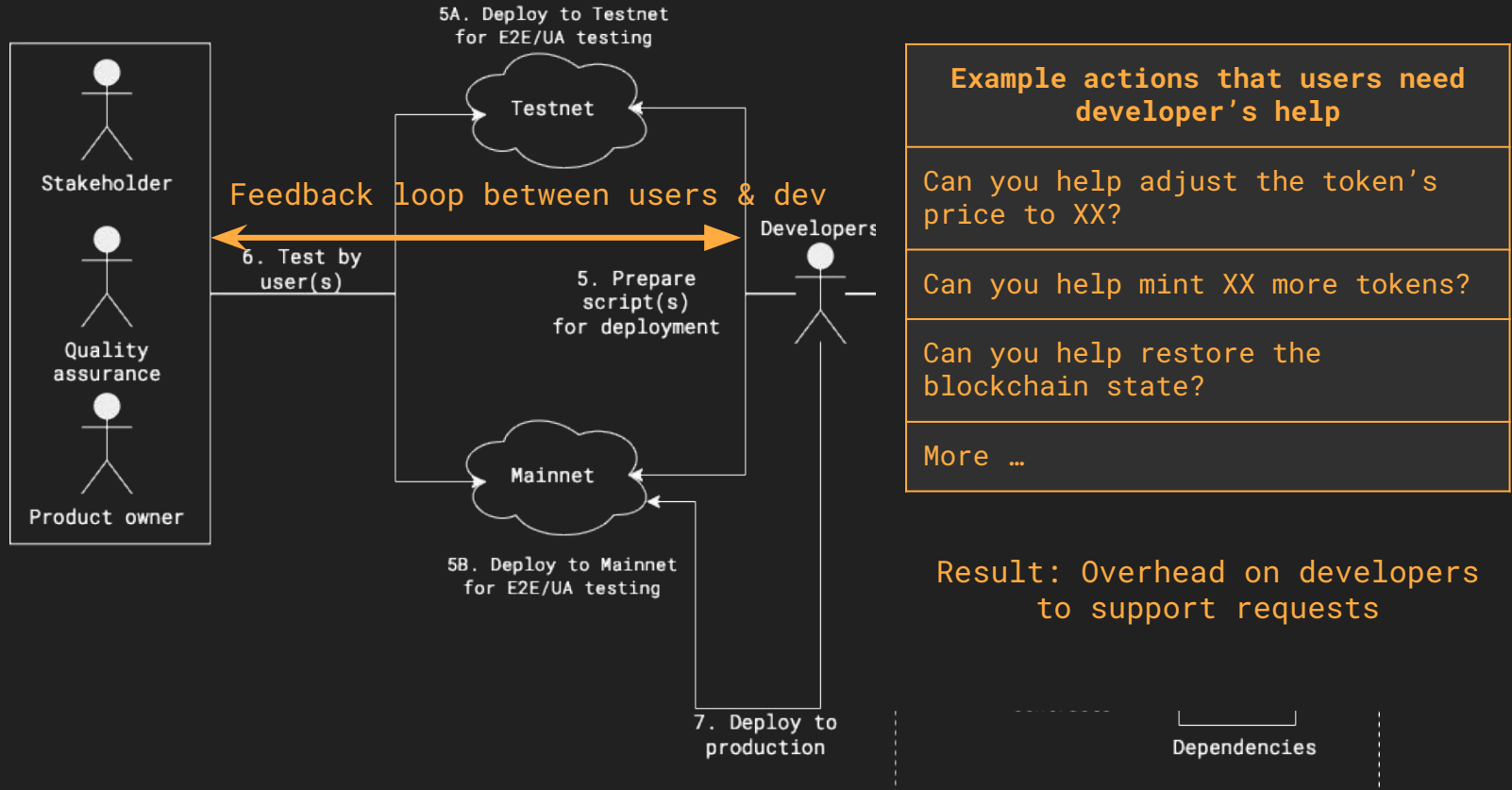
Inconvenience for testing
on Testnet and Mainnet

Overhead time to support
users for testing

Inconvenience for testing on Testnet and Mainnet



Overhead time to support users for testing



Goal for Our Proposal Solution

- A tool that could help making E2E testing *more convenience* and *save engineer's assistance effort*

And we introduce you to ...



Solution: PACMON

PACMON Features

We broke down core features from the 2 problems we're interested. Let's divide our users into: *developers* and *testers* (ex. QA, PO, stakeholders)

Inconvenience for testing
on Testnet and Mainnet

Overhead time to support
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Let's dig deeper into *user stories* in the next slide

Inconvenience for testing on Testnet and Mainnet

*As a developer, I want to deploy
or redeploy smart contracts on
testing environment with ease*

With the help from concepts of templates,
plugins, projects and nodes (next slide)

*As a developer, I want to have a
full control over the deployed
testing environment*

Developer gets RPC url from spawned nodes
and they can do anything with nodes

Overhead time to support users for testing

*As a tester, I want to do E2E
testing on testing environment*

Once tester gets RPC url from developer,
they can access it anywhere and do the
testing

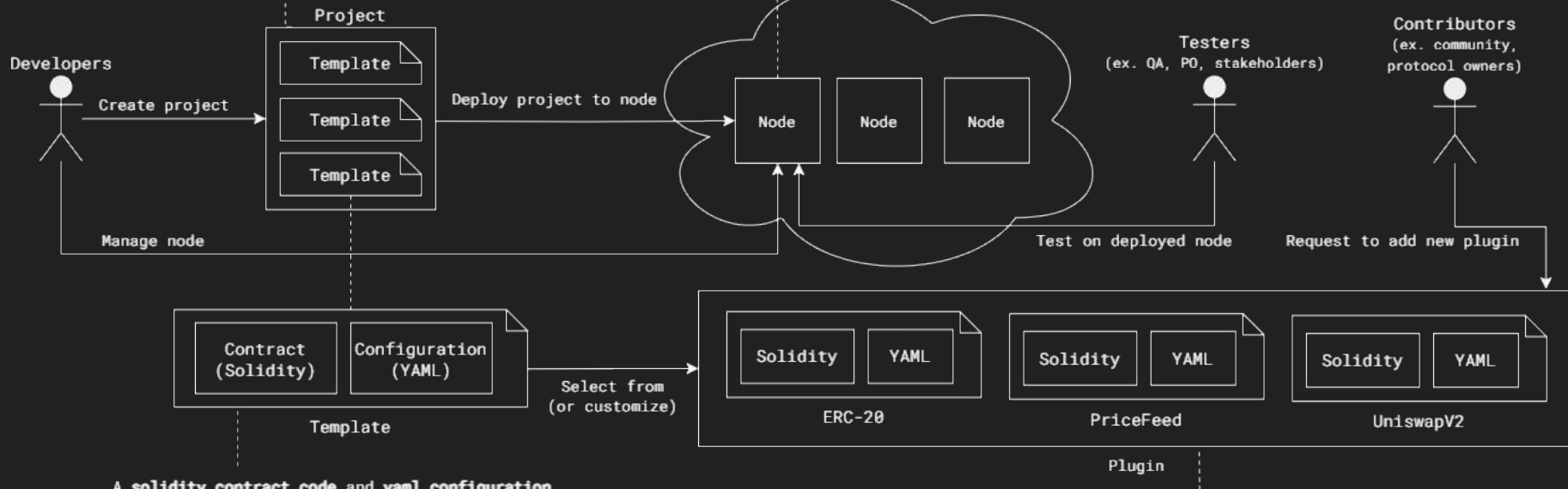
*As a tester, I want to execute
certain actions on testing
environment without requiring
effort from developers*

Manage node page allows tester to do some
action according to the configuration of
smart contracts

Core Concepts

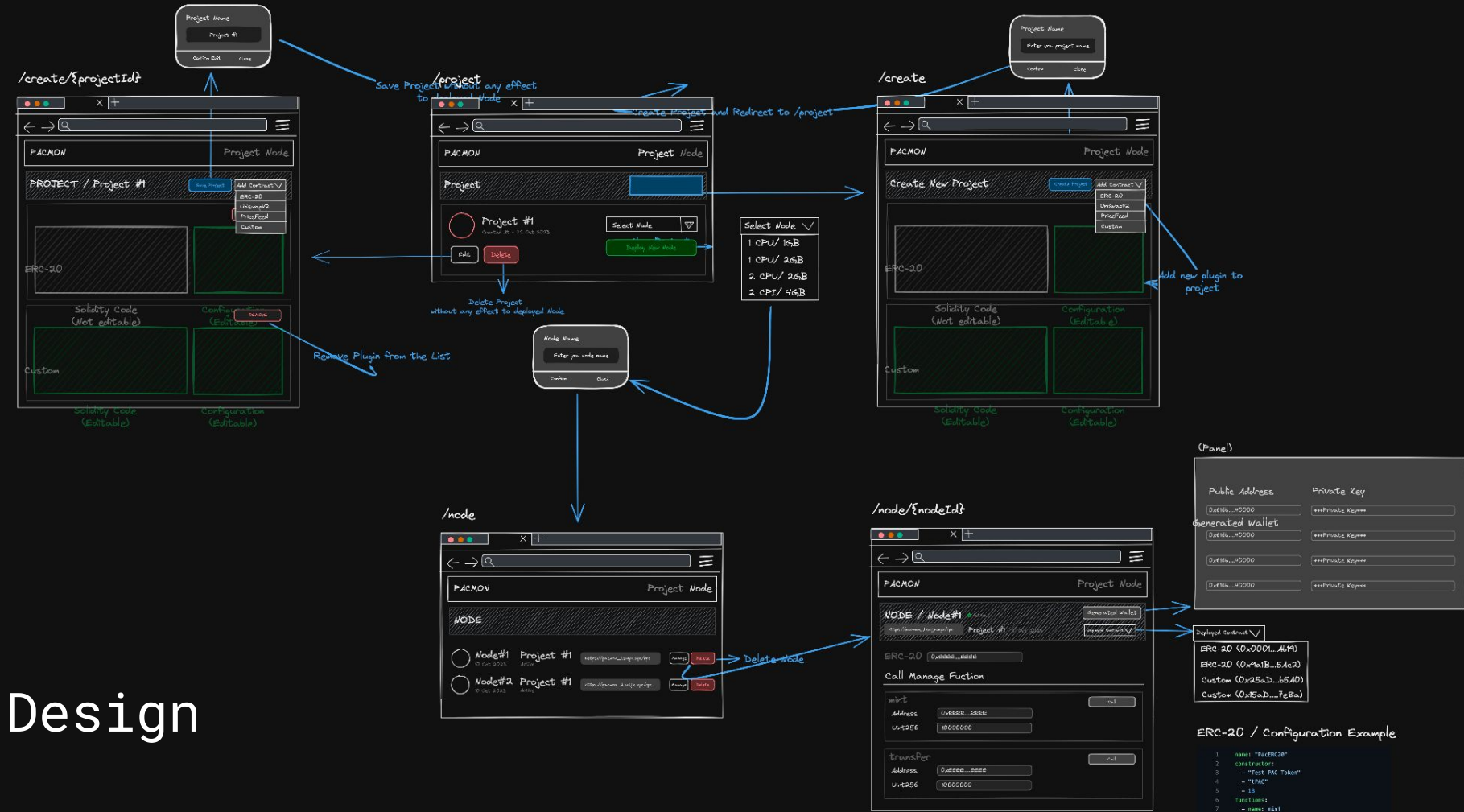
A set of template for each different environments the user will be testing

An instance of deployed environment of a project. Consists with a set of contracts deployed exactly as each corresponding template in the project it based on dictated. Each node gives RPC url and wallet address for testing.

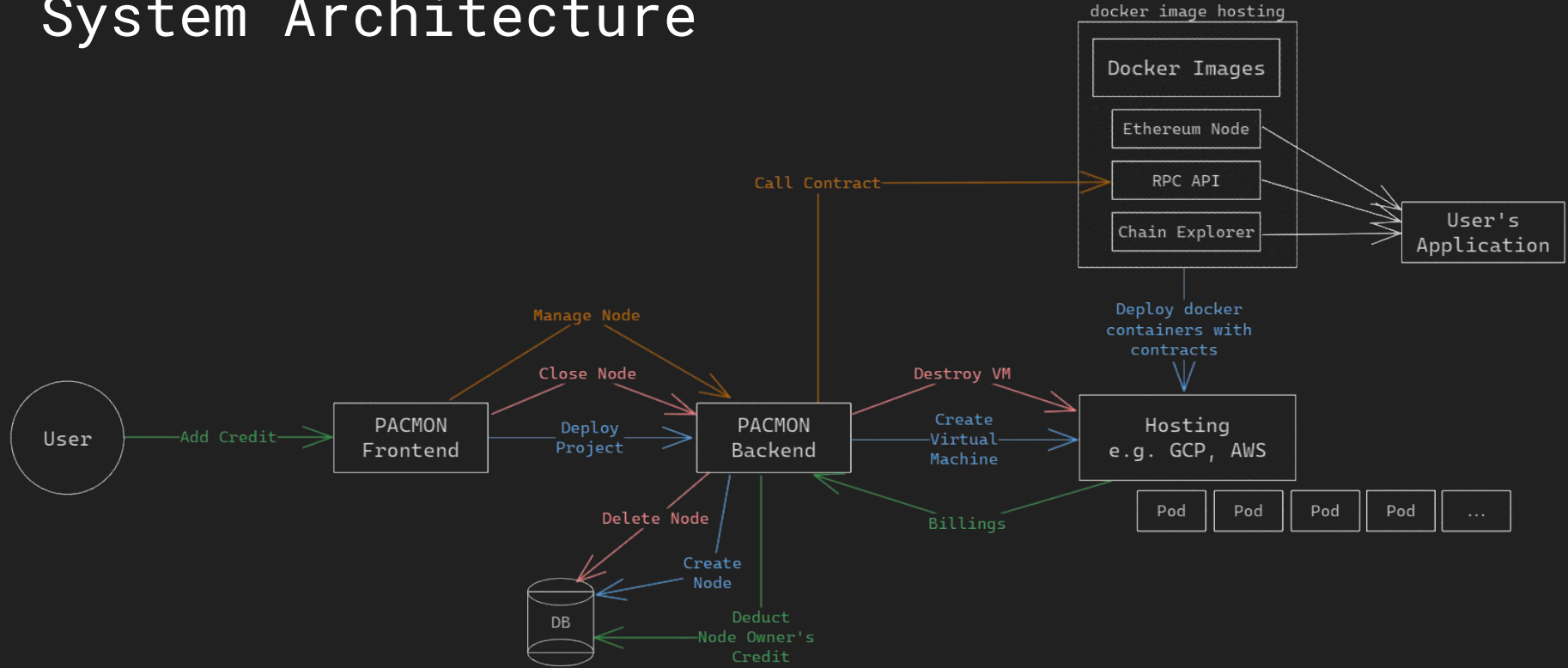


A solidity contract code and yaml configuration specifying commands such as: how to deploy the contract, what functions to call after deployed, functions that can be managed through PACMON's interface, etc.

A sample solidity & yaml configuration of a protocol, which can be selected when creating a project to setup the environment with ease. ***Contributed by community and protocol owners.***

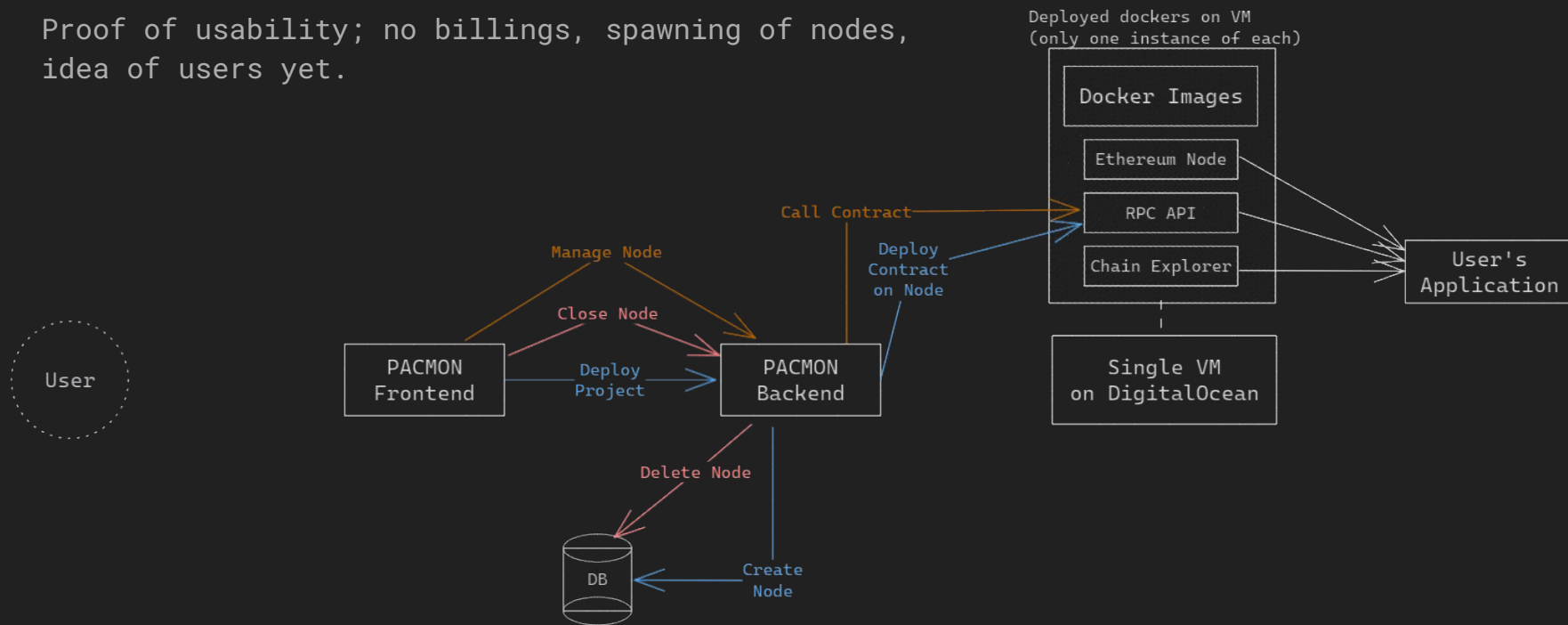


System Architecture

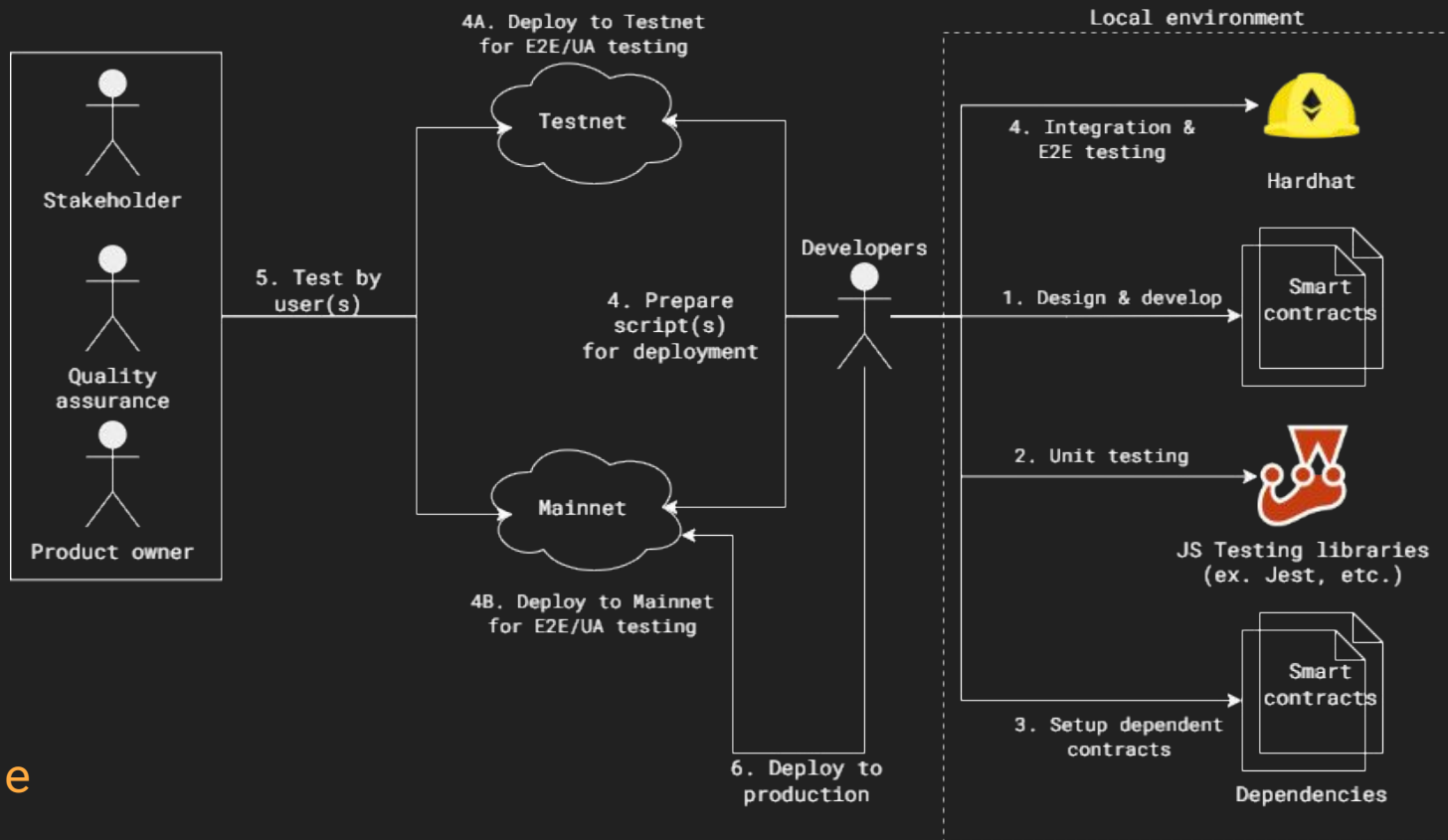


System Architecture (Proof-of-Concept)

Proof of usability; no billings, spawning of nodes, idea of users yet.

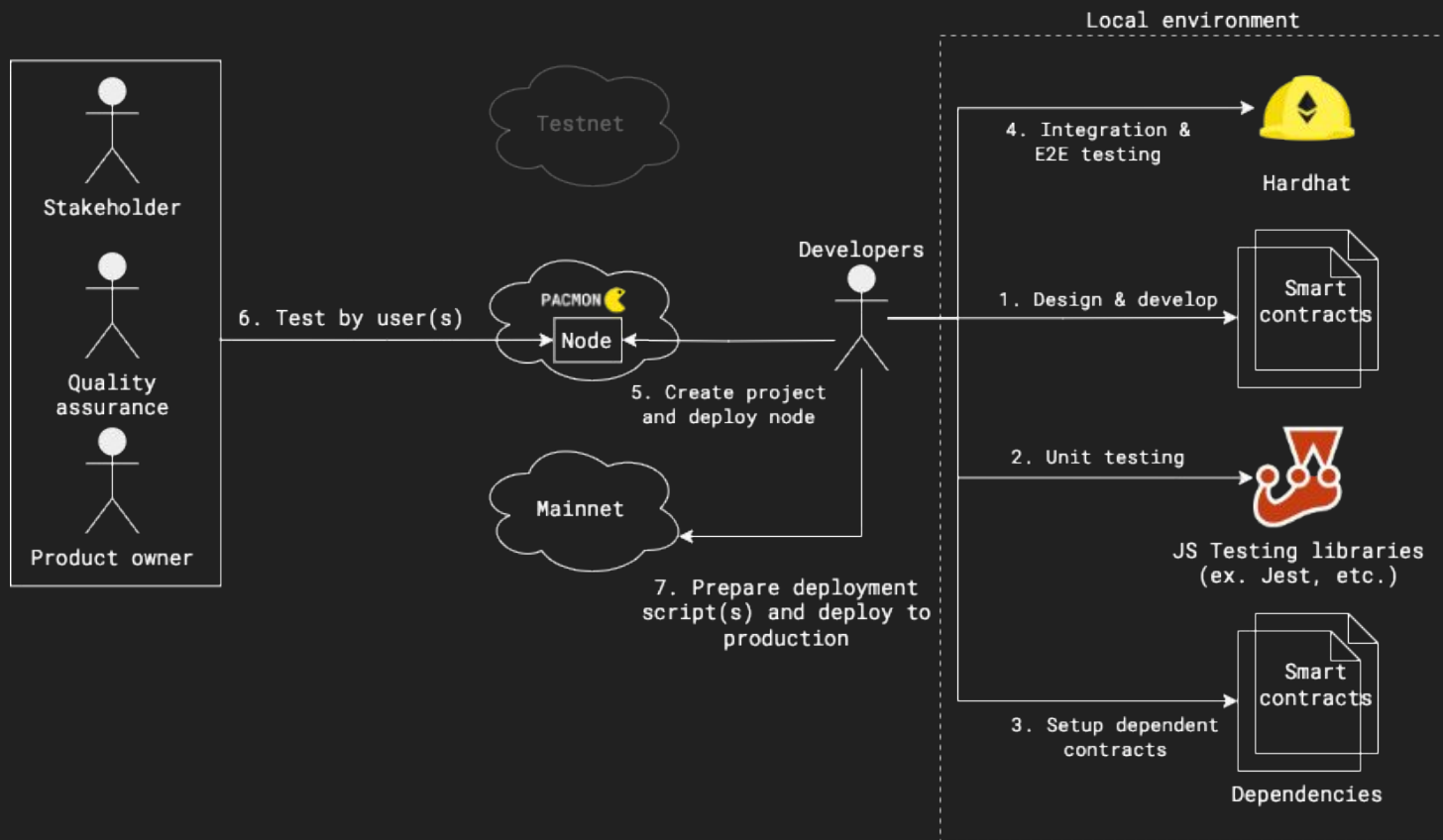


How PACMON fits into development & testing?



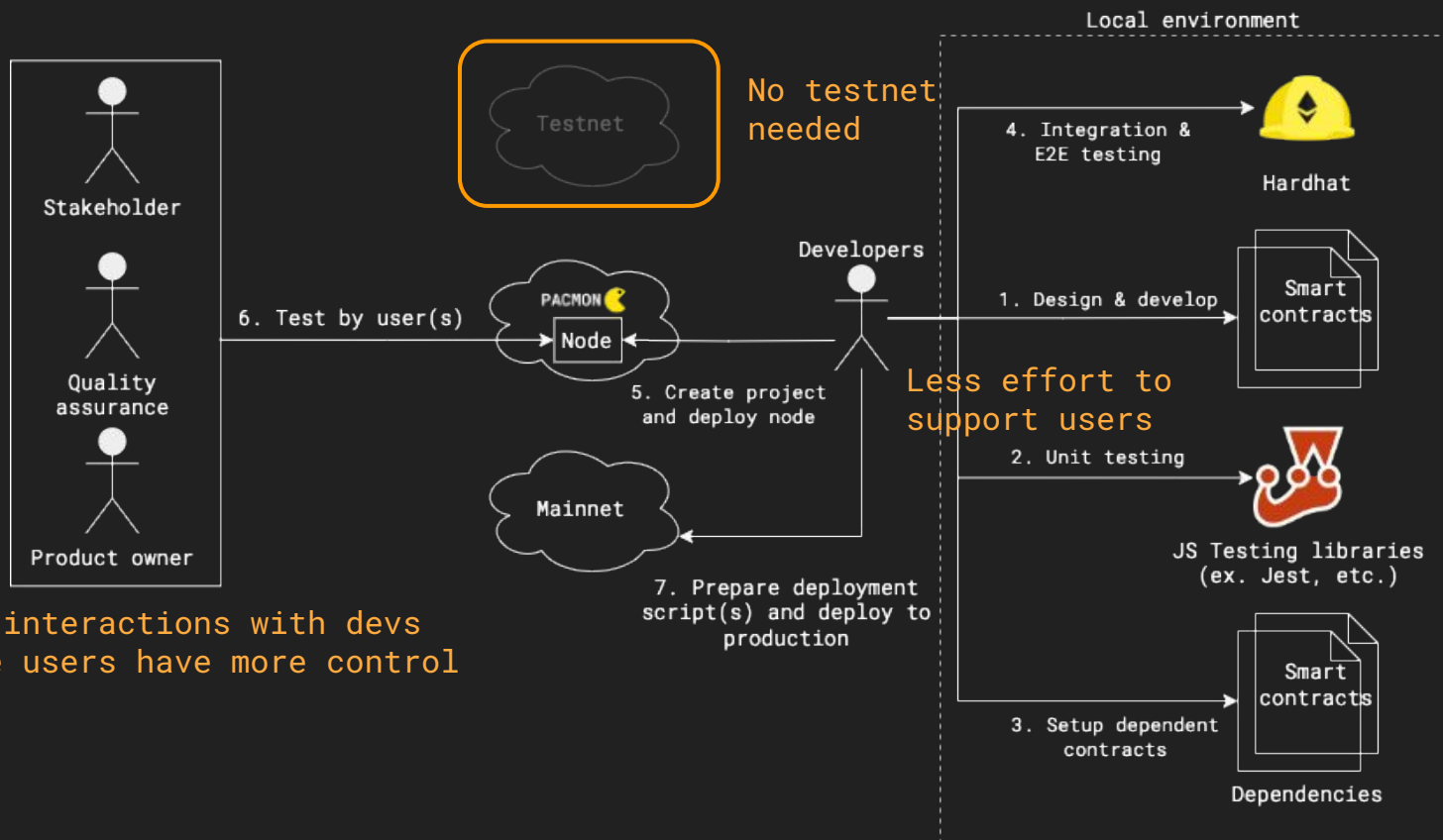
Before

How PACMON fits into development & testing?



After

How PACMON fits into development & testing?



Demo

- Production url: <https://pacmon.suijin.xyz/>
- Limitations
 - No separation of projects/nodes for each users
 - Support manual e2e testing only
 - Deleting node doesn't truly destroy the Ethereum node, though it will disappear from nodes list
 - Template configurations are limited inside the scope of examples we provided
 - Only supports solidity v0.8.19
- Full demo video: TBD
- Repositories:
 - PAC-interface: <https://github.com/PacmonTeam/pac-interface>
 - PAC-backend: <https://github.com/PacmonTeam/pac-backend>
 - PAC-plugins: Open for contribution at <https://github.com/PacmonTeam/pac-plugins>

Roadmap

Market Position

WEB2.0



WEB3.0



Monetization

Here are our 3 possible ideas for the product to earn:

Subscription



Tier based features

Subscription per
seat

Pay as you go



Pay per usage
depending on node
spec or feature

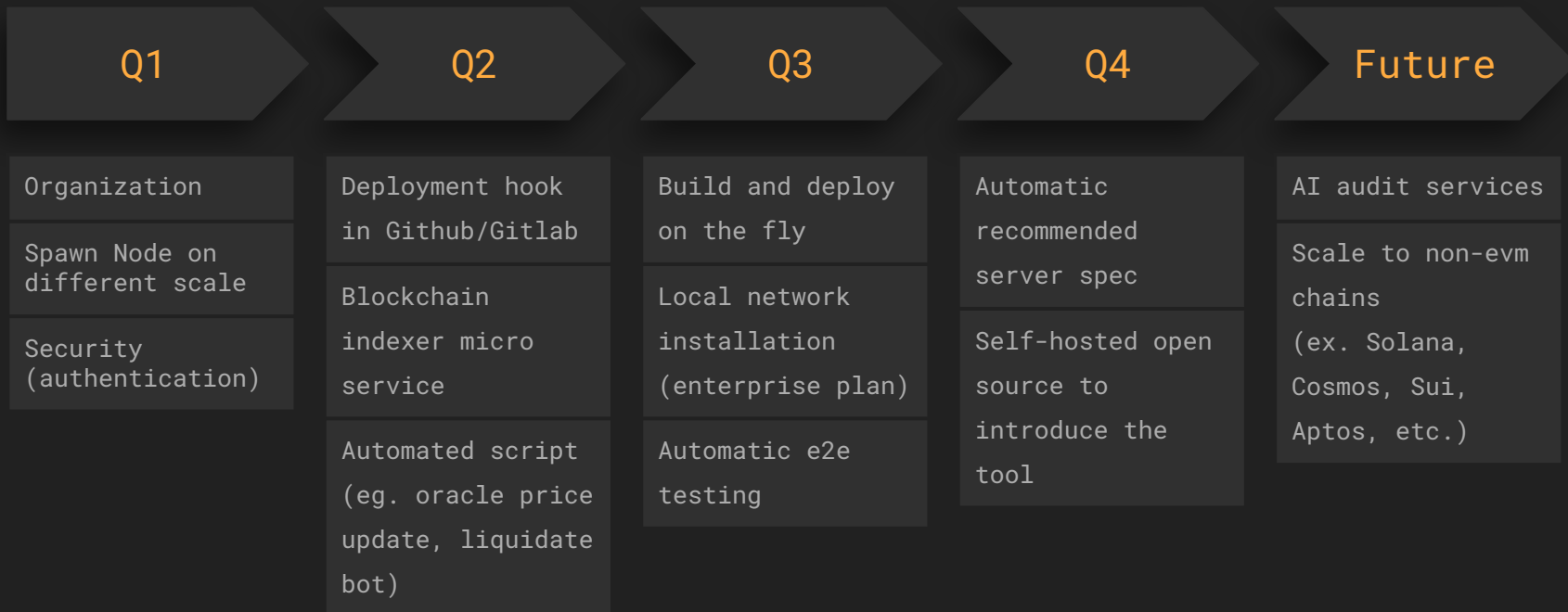
Enterprise plan



Enterprise local
network installation

Support team

Product Roadmap



Meet the PACTEAM

*Our small team consists of 3
enthusiastic life strugglers*



Chin

Progress along the way is
more vital than the
destination

Do: Product & Frontend

Analytically creative.
Also, he daydreams a lot.

Do: Backend



Aik

Self proclaimed introvert,
but his previous manager
disapproved

Do: Frontend



Pun