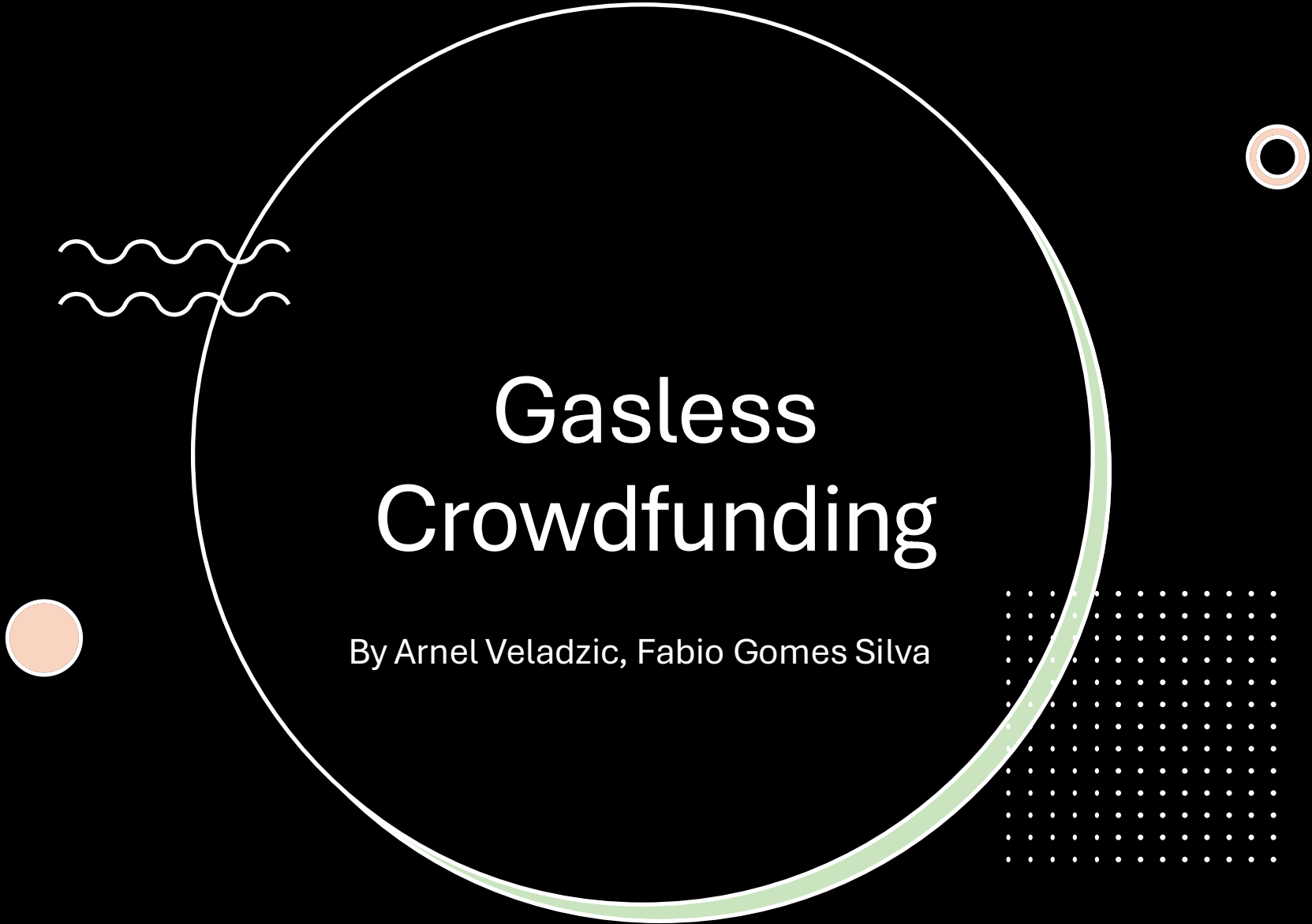




Gasless Crowdfunding

By Arnel Veladzic, Fabio Gomes Silva

Inhalt

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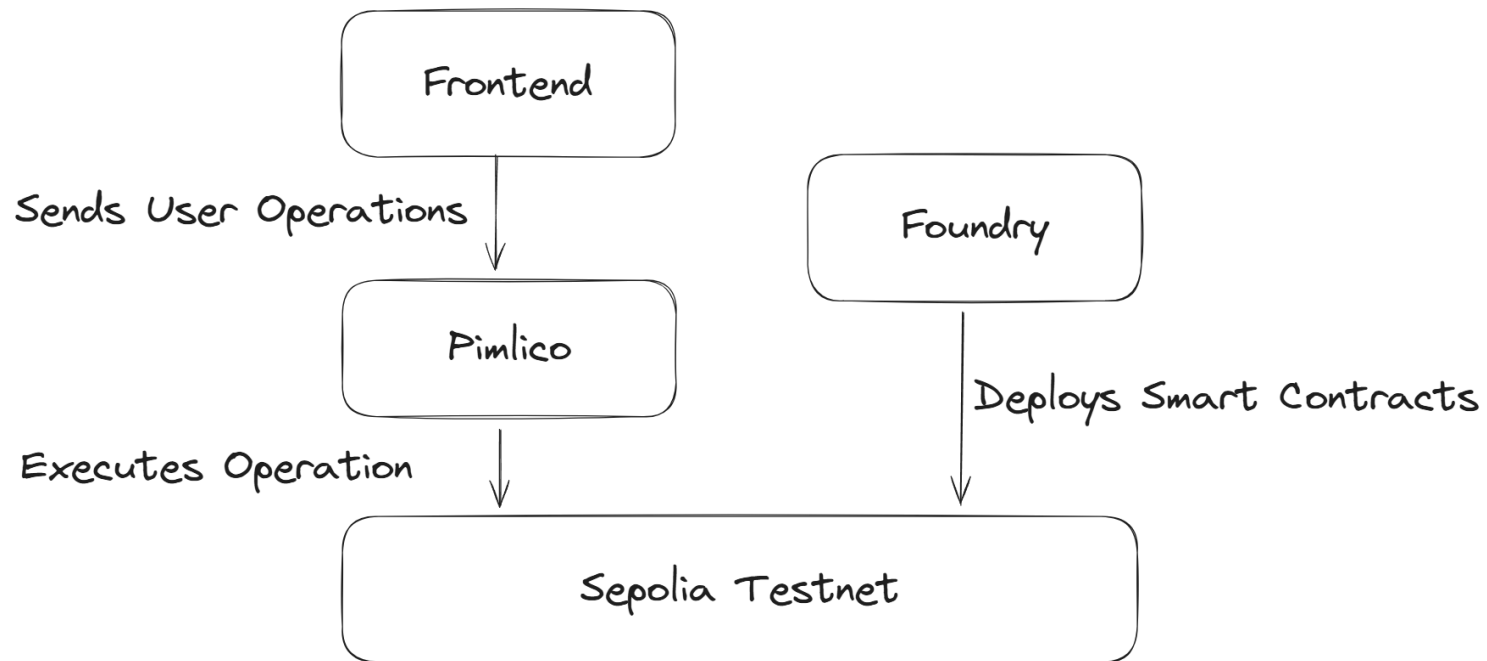
Problem

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- Many Web3 apps still force users to pay gas
 - Gas fees & wallets create friction for new users
 - The Goal:
 - No gas cost
 - A smooth Web2-like experience

Solution

-
- Our solution: a **gasless crowdfunding platform**
 - Users can create campaigns
 - Users can pledge to existing campaigns
 - All transactions are gasless through **account abstraction**
 - Deployed on **Sepolia Testnet**

Architecture



Components / Tech Stack

- Frontend:
 - Svelte
 - Minimal UI (Create Campaign, Pledge)
- Smart Contracts:
 - Crowdfund.sol (campaign + pledge logic)
 - Deployed using Foundry (Deploy.s.sol)
- Account Abstraction:
 - Powered by Pimlico (ERC-4337 bundler + paymaster)
 - Enables gasless transactions

Design Decisions

-
- **Svelte Frontend**
 - Lightweight, fast, ideal for small experimental Apps
 - Simple state handling for UserOperations & contract interactions
 - **Pimlico Bundler & Paymaster**
 - Provides AA infrastructure (Bundler + Paymaster)
 - Stable, production-ready API
 - Paymaster sponsors gas → real gasless user experience
 - **Sepolia Testnet**
 - Free to use
 - Fully EVM-compatible (same behavior as Ethereum)
 - Perfect for testing account abstraction and smart contracts
 - **Minimalist Smart Contracts**
 - Crowdfund.sol focused on two core actions: create campaign & pledge
 - Low complexity, fewer errors
 - Ideal for demonstrating AA and gasless UX



Demo

Schluss / Q&A

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