



**BlockCrafters (Group 4)**

**Alan Song-Hong Lee, Boru Zhu, Jiapei Yu, Sara Zhang, Yixin Zhang**



# Introduction

- Traditional funding models are high entry barriers, opaque processes, and significant intermediary costs prevent small investors from participating.
- Our project is driven by the motivation to democratize investment, making fundraising more transparent, efficient, and accessible.
- Leveraging blockchain technology, we envision a platform where every transaction is verifiable, and all participants have power in project governance.

# Foundations & Tokenomics



# Market Gap

- One major gap is the high entry barrier.
- The lack of transparency and high intermediary costs in traditional fundraising.
- Does not provide equity or long-term governance rights.

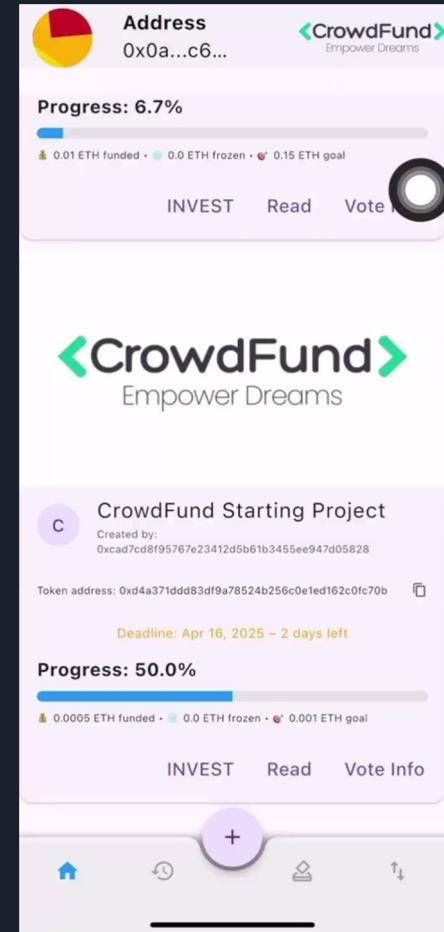


# Market fit

- Low entry barrier for both investors and startups.
- Leveraging blockchain provides a more transparent and accessible environment.
- Creates unique project tokens to provides proof of investments and utilizes these tokens for project governance.

# Adoption Strategy

- Ease of use
  - Intuitive design for startups and retail investors
  - Cross-platform enables access on mobile and web
- Partnering with early-stage startups
  - Waived platform fees for launch-phase startup projects
  - Real campaigns validate infrastructure



# Adoption Strategy

- Partnerships with incubators and influencers
- Incentivizing retail investors
  - Token-based governance rights
  - Early supporter recognition





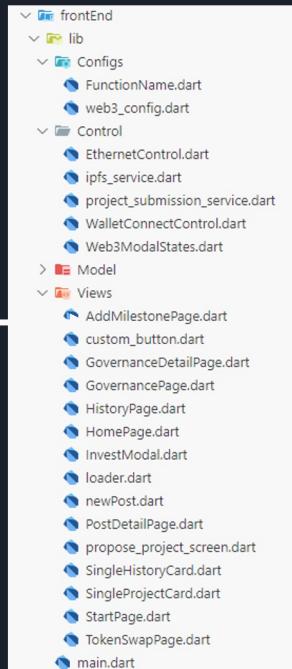
# Tokenomics

- Project-specific tokens represent both ownership and governance rights for startup projects.
  - Tokens are minted upon actual investment
  - On-chain voting weight is based on the token balance of an investor.
- Market buybacks allow investors to reclaim voting power by compensating token holders at current market prices.

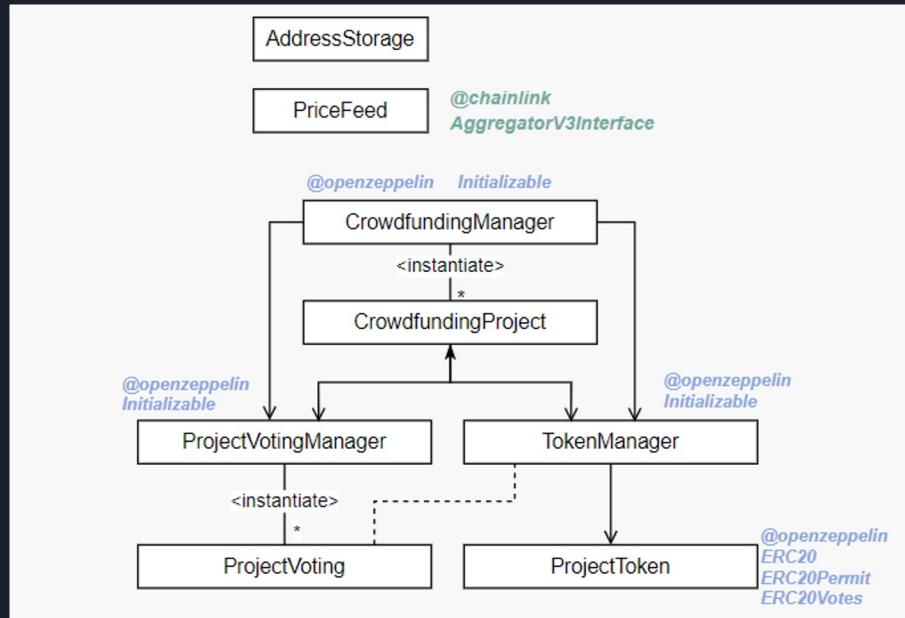
# System Architecture

# System Code Structure

Media storage:



Frontend: Flutter



Backend: Smart contracts

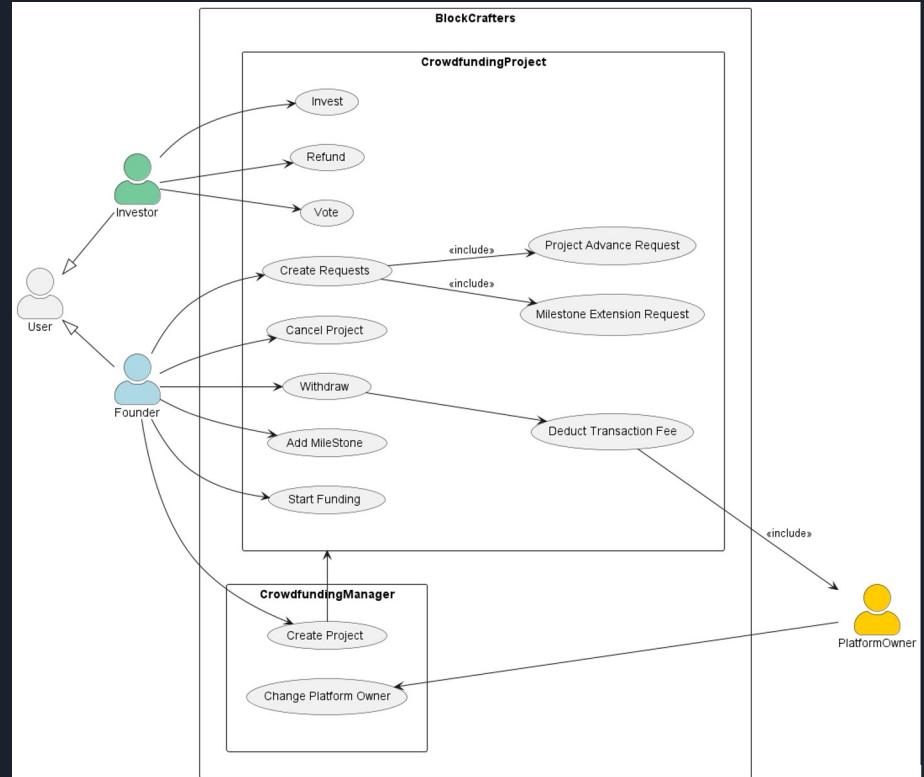


# Use cases

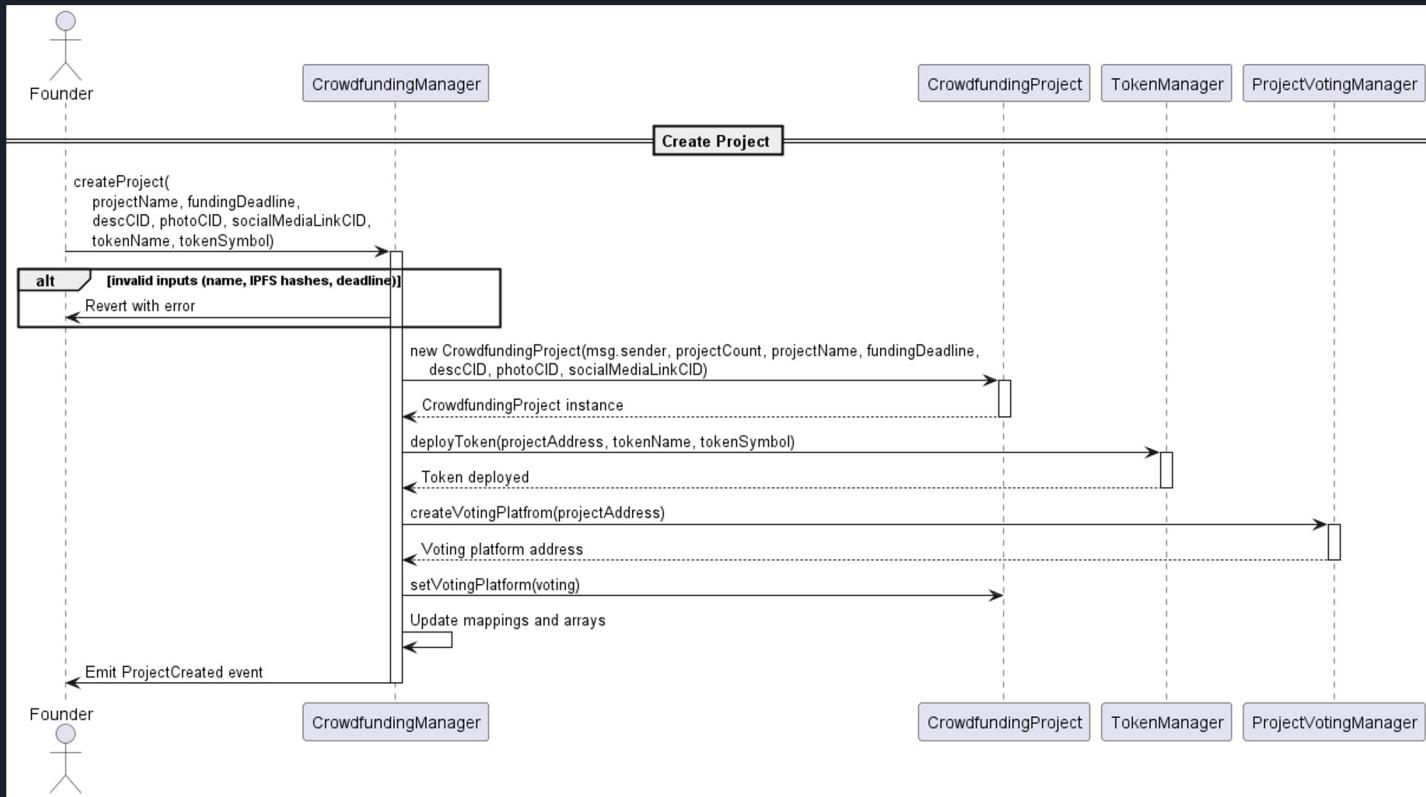
- **Investor:** Invests, refunds, and votes.
- **Founder:** Launches and manages projects (via milestones).

once all milestones are defined

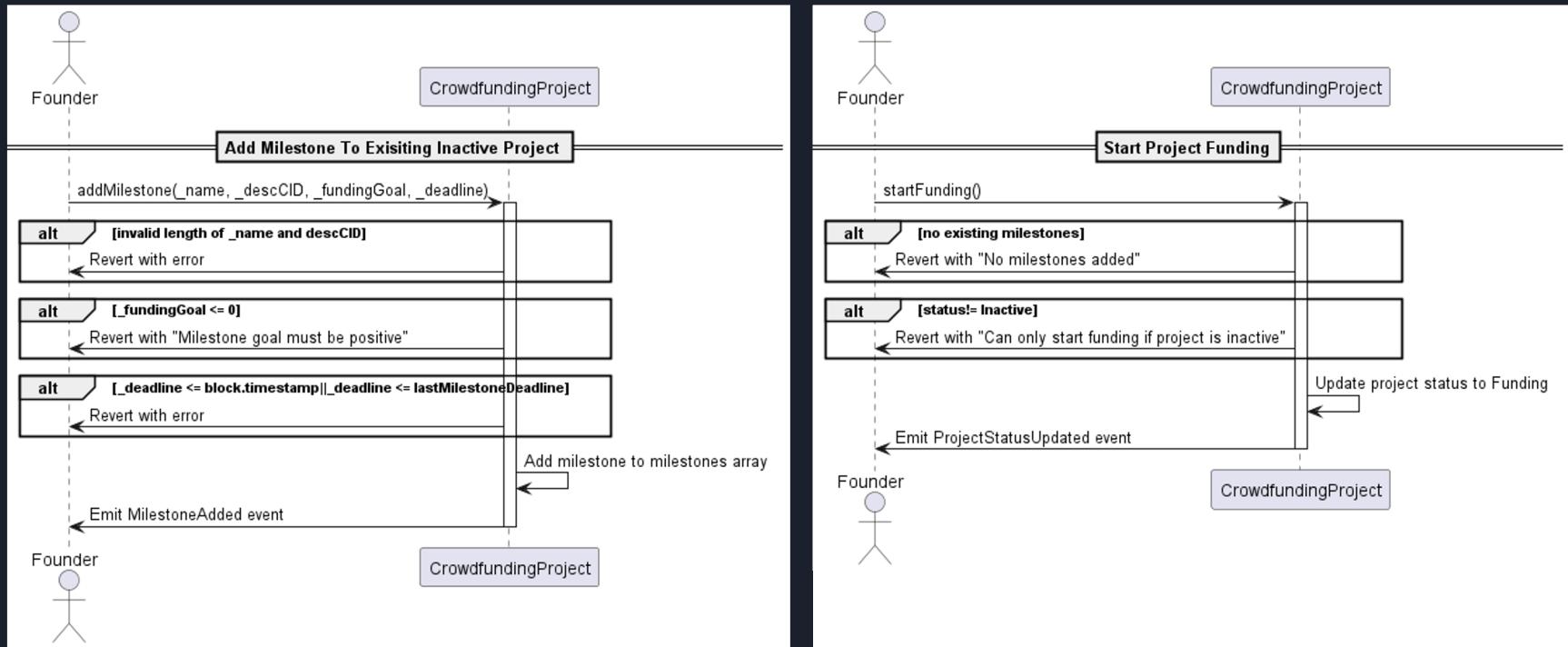
- **Platform Owner:** Oversees platform and receives transaction fees.



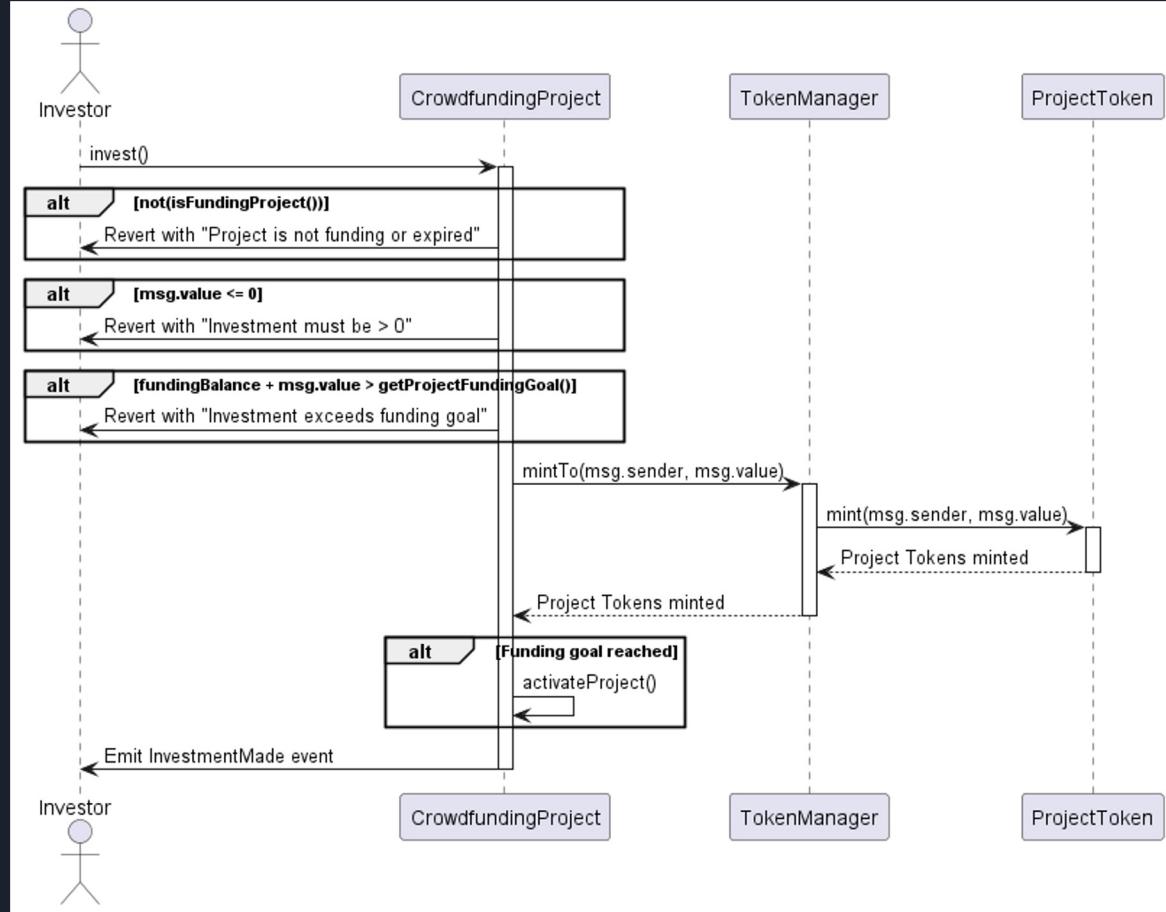
# Create Project



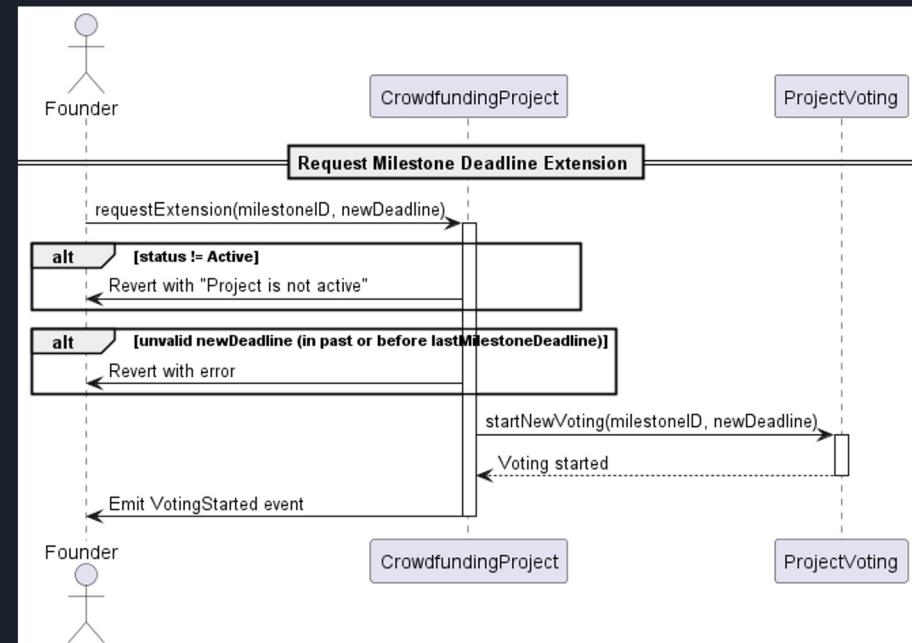
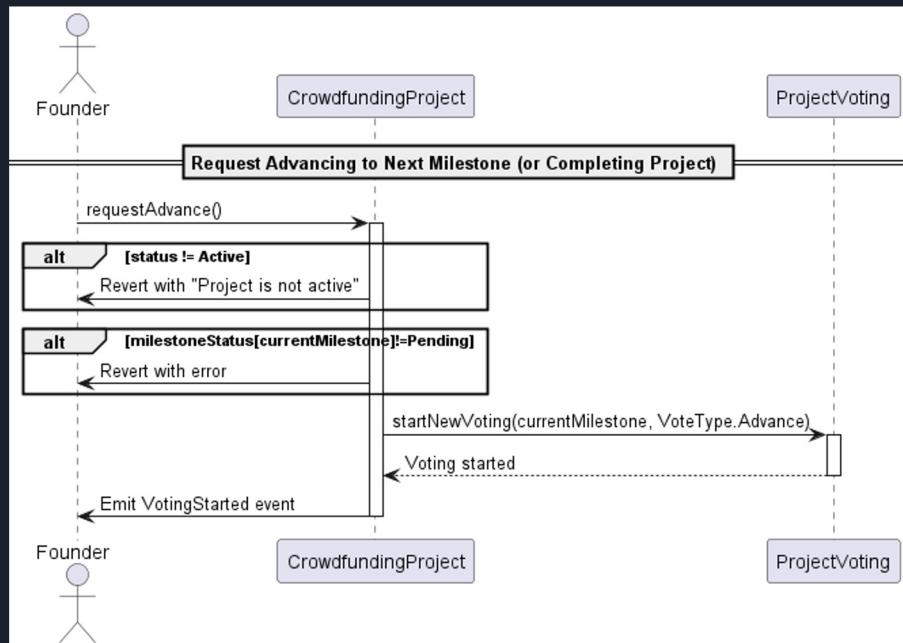
# Add Milestone & Start Funding



# Invest

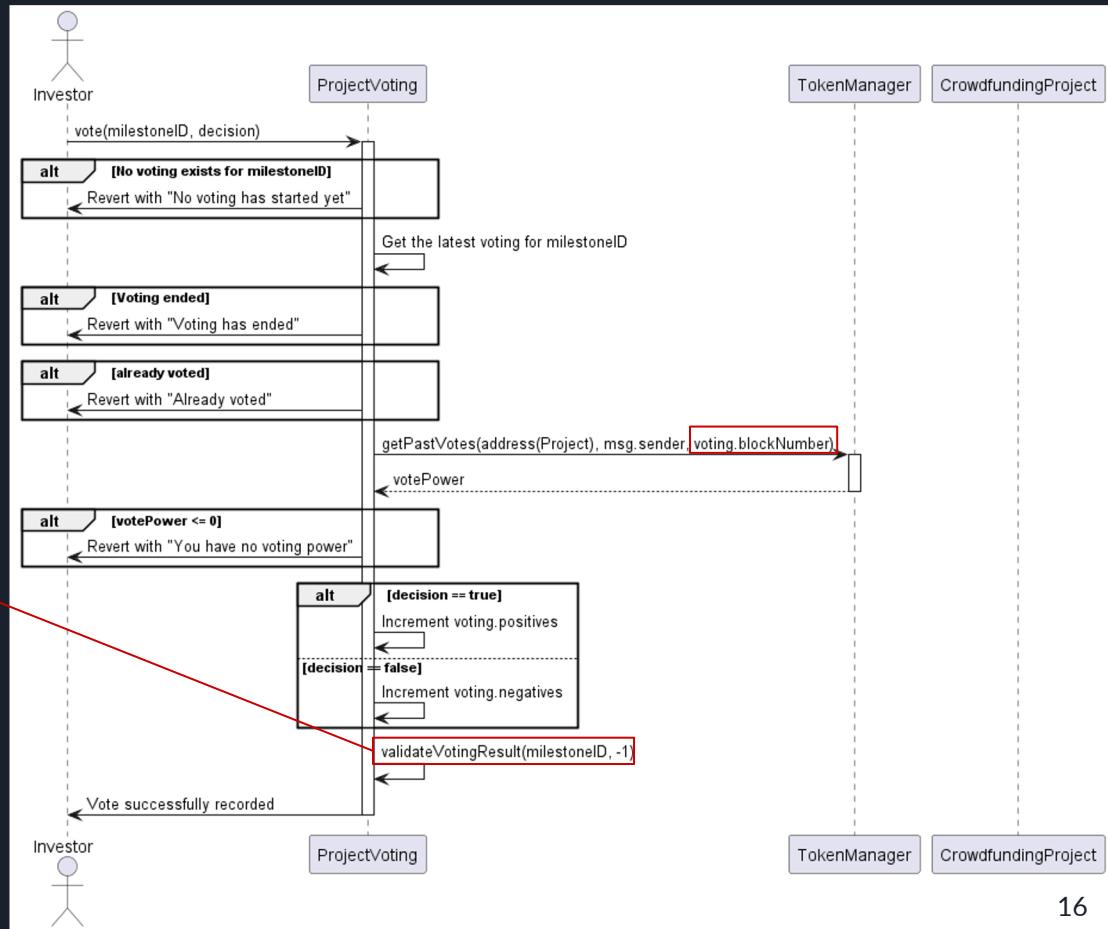
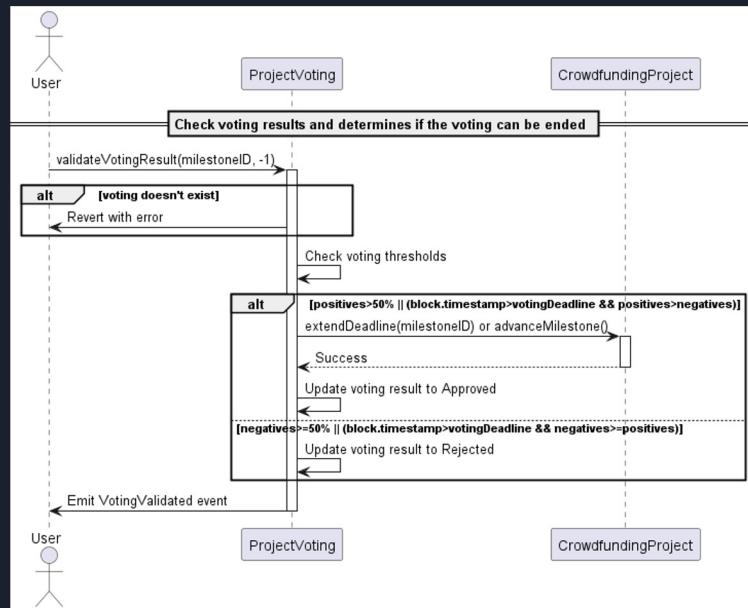


# Voting Requests



# Vote

## Utilize ERC20Vote



# Refund

Funding Finished?

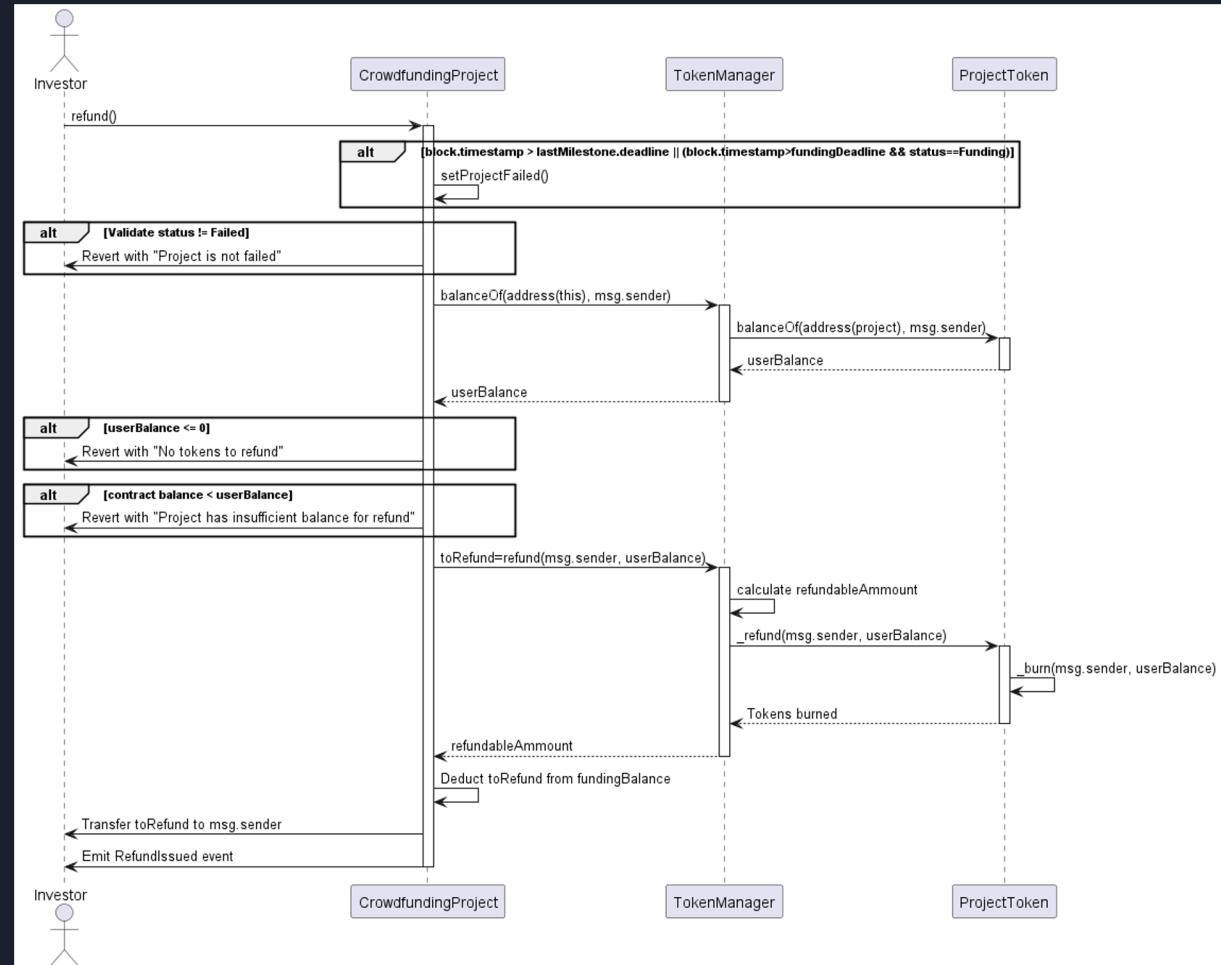


Project Failed



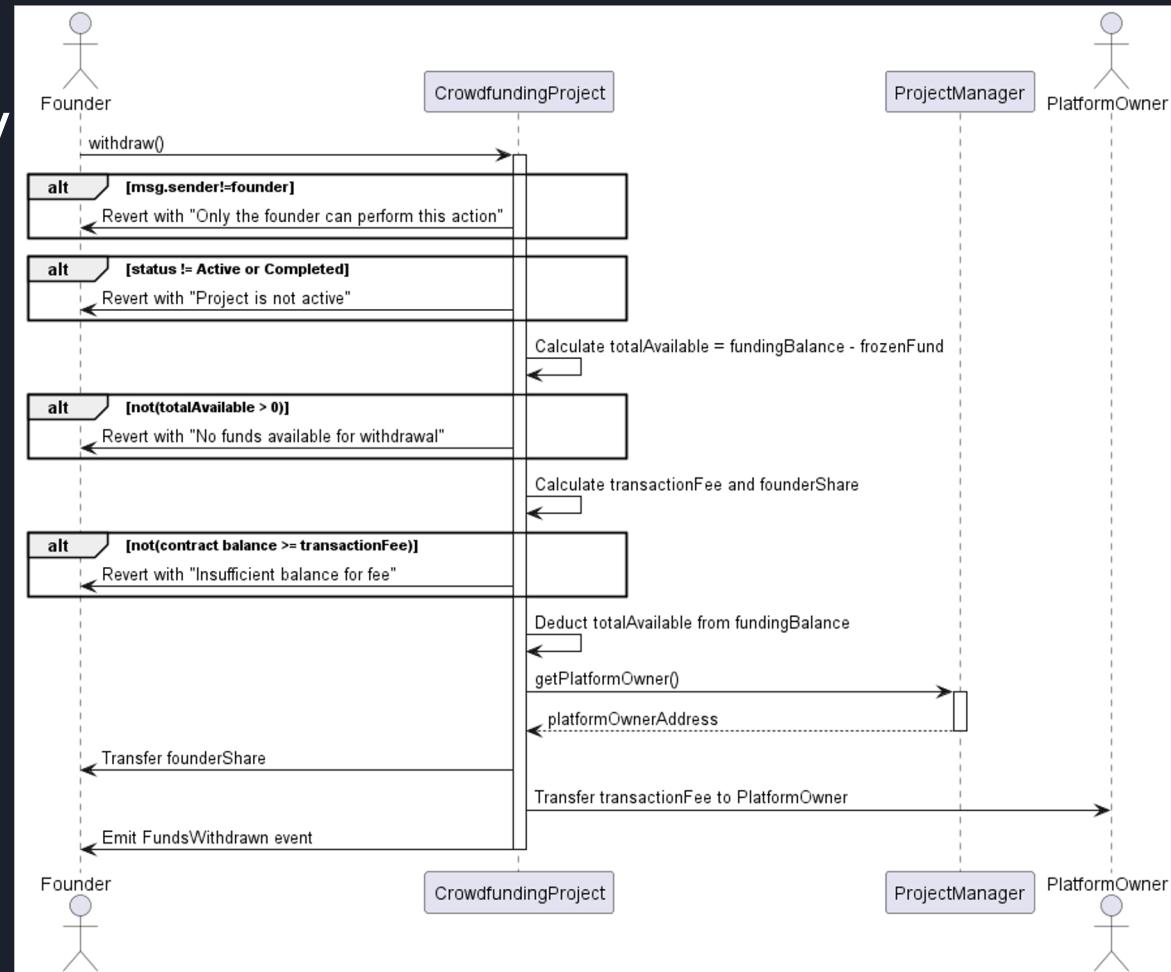
100% Refunded

Frozen fundings refunded



# Withdraw

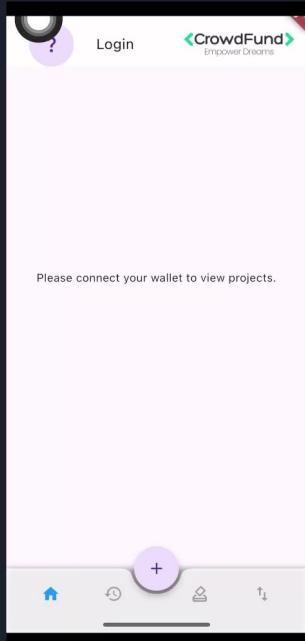
20% of total fundings are frozen  
until project is completed



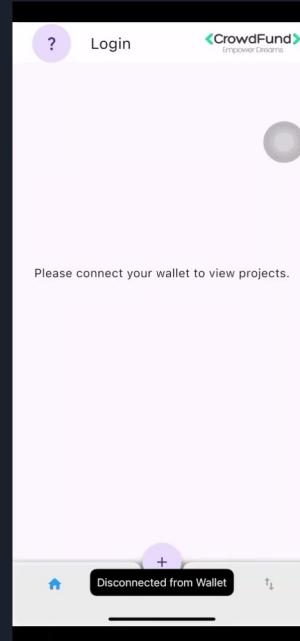
# Live Demo

# Demo - Start a project

Creates a Project & Add milestone (“Funding” Status) → Investor Invests



Startup



Investor

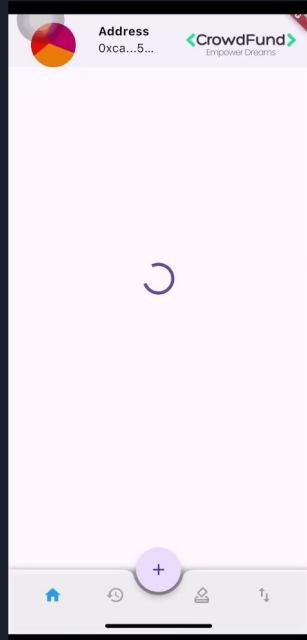
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0x67ead76202...		8115831	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xC788Bdf2..99ACf38f3	0 ETH
0x379c08b5c8...	Withdraw	8115827	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xC788Bdf2..99ACf38f3	0 ETH
0x026e461830...	Start Funding	8115778	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xC788Bdf2..99ACf38f3	0 ETH
0x80ddd1a2d5...		8115771	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xC788Bdf2..99ACf38f3	0 ETH
0x2525fce8fe...		8115761	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xd33839b7..9964e7E2A	0 ETH

Transaction Hash	Method	Block	Age	From	To	Amount
0x529ec5710f4...	Withdraw	8118674	1 hr ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH
0x67ead76202...		8115831	12 hrs ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH
0x379c08b5c8...	Withdraw	8115827	12 hrs ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH
0x65ed7b194a...	Invest	8115802	12 hrs ago	0xA19573D..Ee637C600	IN 0xC788Bdf2..99ACf38f3	0.0005 ETH
0x8a21adf6858...	Invest	8115792	12 hrs ago	0xA19573D..Ee637C600	IN 0xC788Bdf2..99ACf38f3	0.0005 ETH
0x026e461830...	Start Funding	8115778	12 hrs ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH
0x80ddd1a2d5...		8115771	12 hrs ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH

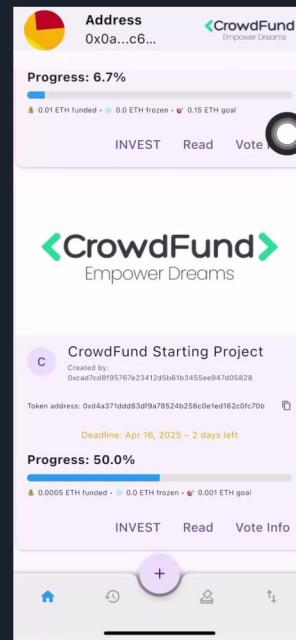
On-chain Record

# Demo - Investing process + initial withdraw

Investor Invests → Reach funding goal ( “Active” Status )→ Startup withdraw 80% funding



Startup



Investor

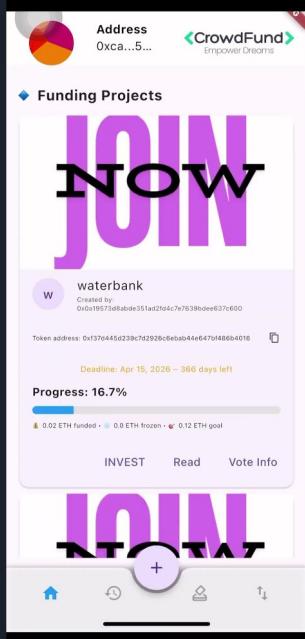
Transaction Hash	Method	Block	Age	From	To	Amount
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0x67ead76202...		8115831	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xC788Bdf2..99ACf38f3	0 ETH
0x379c08b5c8...	Withdraw	8115827	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xC788Bdf2..99ACf38f3	0 ETH
0x026e461830...	Start Funding	8115778	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xC788Bdf2..99ACf38f3	0 ETH
0x80ddd1a2d5...		8115771	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xC788Bdf2..99ACf38f3	0 ETH
0x2525fce8fe...		8115761	12 hrs ago	0xcaD7CD8F..947D05828	OUT 0xd33839b7..9964e7E2A	0 ETH

On-chain Record

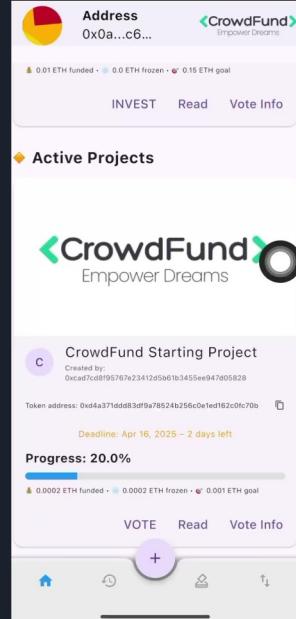
Transaction Hash	Method	Block	Age	From	To	Amount
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0x67ead76202...		8115831	12 hrs ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH
0x379c08b5c8...	Withdraw	8115827	12 hrs ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH
0x65ed7b194a...	Invest	8115802	12 hrs ago	0xA19573D..Ee637C600	IN 0xC788Bdf2..99ACf38f3	0.0005 ETH
0x8a21adf6858...	Invest	8115792	12 hrs ago	0xA19573D..Ee637C600	IN 0xC788Bdf2..99ACf38f3	0.0005 ETH
0x026e461830...	Start Funding	8115778	12 hrs ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH
0x80ddd1a2d5...		8115771	12 hrs ago	0xcaD7CD8F..947D05828	IN 0xC788Bdf2..99ACf38f3	0 ETH

# Demo - Successful project

Startup Starts Voting process → Investor Votes to approve → Startups withdraw 20% funding



Startup



Investor

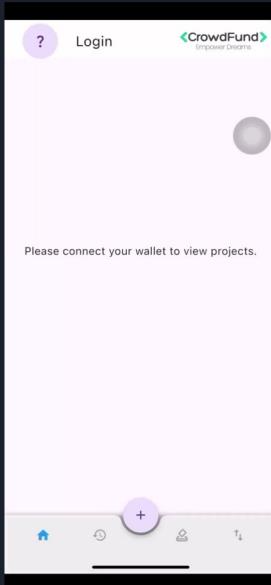
Transaction Hash	Method	Block	Age	From	To	Amount
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0x67ead76202...		8115831	12 hrs ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH
0x379c08b5c8...	Withdraw	8115827	12 hrs ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH
0x026e461830...	Start Funding	8115778	12 hrs ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH
0x80ddd1a2d5...		8115771	12 hrs ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH
0x2525fce8fe...		8115761	12 hrs ago	0xcaD7CD8F..947D05828	0x33839b7..9964e7E2A	0 ETH

Transaction Hash	Method	Block	Age	From	To	Amount
0x529ec5710f4...	Withdraw	8118674	1 hr ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH
0x67ead76202...		8115831	12 hrs ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH
0x379c08b5c8...	Withdraw	8115827	12 hrs ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH
0x65ed7b194a...	Invest	8115802	12 hrs ago	0xA19573D..Ee637C600	0x788BdF2..99ACf38f3	0.0005 ETH
0x8a21adf6858...	Invest	8115792	12 hrs ago	0xA19573D..Ee637C600	0x788BdF2..99ACf38f3	0.0005 ETH
0x026e461830...	Start Funding	8115778	12 hrs ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH
0x80ddd1a2d5...		8115771	12 hrs ago	0xcaD7CD8F..947D05828	0x788BdF2..99ACf38f3	0 ETH

On-chain Record

# Demo - Failed project

Creates a Project & Add milestone (“Funding” Status) → Investor Invests → Reach goal (“Active” Status)



Startup



Investor

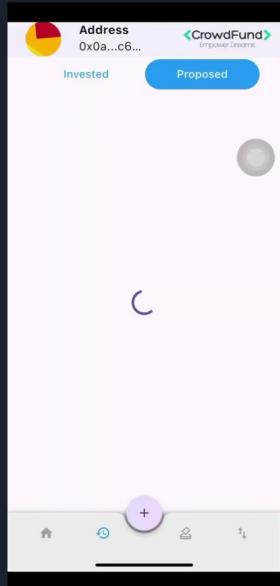
Transaction Hash	Method	Block	Age	From	To	Amount	Tax Fee
0x545c5ccb26...	Refund	8119364	15 mins ago	0xcaD7CD8F..947D05828	0x4f3CD369..1c60e0890	0 ETH	0.00019338
0x10cc1837fa...	0x3966409	8119303	29 mins ago	0xA19573D..Ee637C600	0x4f3CD369..1c60e0890	0 ETH	0.00004535
0xb06f729bb56...	Invest	8119245	44 mins ago	0xaD7CD8F..947D05828	0x4f3CD369..1c60e0890	0.001 ETH	0.00041438
0xdfef2b477fb...	Start Funding	8119208	52 mins ago	0xA19573D..Ee637C600	0x4f3CD369..1c60e0890	0 ETH	0.00007413
0x752e9f6b865...	0x1975348	8119198	54 mins ago	0xA19573D..Ee637C600	0x4f3CD369..1c60e0890	0 ETH	0.00028361

Transaction Hash	Method	Block	Age	From	To	Amount	
0x545c5ccb26...	Refund	8119364	17 mins ago	0xcaD7CD8F..947D05828	0x4f3CD369..1c60e0890	0 ETH	
0xb06f729bb56...	Invest	8119245	46 mins ago	0xaD7CD8F..947D05828	0x4f3CD369..1c60e0890	0.001 ETH	
0x529ec5710f4...	Withdraw	8118674	2 hrs ago	0xaD7CD8F..947D05828	0xC7888Bdf...99ACf38f3	0 ETH	
0x67ead76202...	0x11d57683	8115831	13 hrs ago	0xaD7CD8F..947D05828	0xC7888Bdf...99ACf38f3	0 ETH	
0x379c08b5c8...	Withdraw	8115827	13 hrs ago	0xaD7CD8F..947D05828	0xC7888Bdf...99ACf38f3	0 ETH	
0x026e461830...	Start Funding	8115778	14 hrs ago	0xaD7CD8F..947D05828	0xC7888Bdf...99ACf38f3	0 ETH	
0x80ddd1a2d5...	0x1975348	8115771	14 hrs ago	0xaD7CD8F..947D05828	0xC7888Bdf...99ACf38f3	0 ETH	
0x2525fce8fe...	0x025c6c51	8115761	14 hrs ago	0xaD7CD8F..947D05828	0xd3839b7..9964e72A	0 ETH	

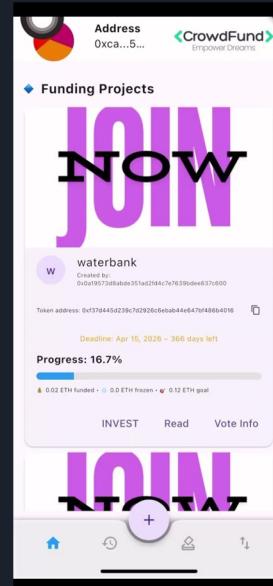
On-chain Record

# Demo - Failed project

Startup cancels project → Investor gets refund



Startup



Investor

Transaction Hash	Method	Block	Age	From	To	Amount	Tx Fee
0x545c5ccb2b...	Refund	8119364	15 mins ago	0xca07CD8F..947D05828	0x4F3CD369..1c60e0890	0 ETH	0.00019338
0x10cc1837fa6...	0x3966409	8119303	29 mins ago	0xA19573D..Ee637C600	0x4F3CD369..1c60e0890	0 ETH	0.00004535
0xb06f7296b650...	Invest	8119245	44 mins ago	0x0D7CD8F..947D05828	0x4F3CD369..1c60e0890	0.001 ETH	0.00041458
0xcdfe2b477fb...	Start Funding	8119208	52 mins ago	0xA19573D..Ee637C600	0x4F3CD369..1c60e0890	0 ETH	0.00007413
0x752e9fb865...	0x1975348	8119198	54 mins ago	0xA19573D..Ee637C600	0x4F3CD369..1c60e0890	0 ETH	0.00028361

TRANSACTION ACTION  
Call Refund Function by 0xa07CD8F..947D05828 on 0x4F3CD369..1c60e0890 ↗

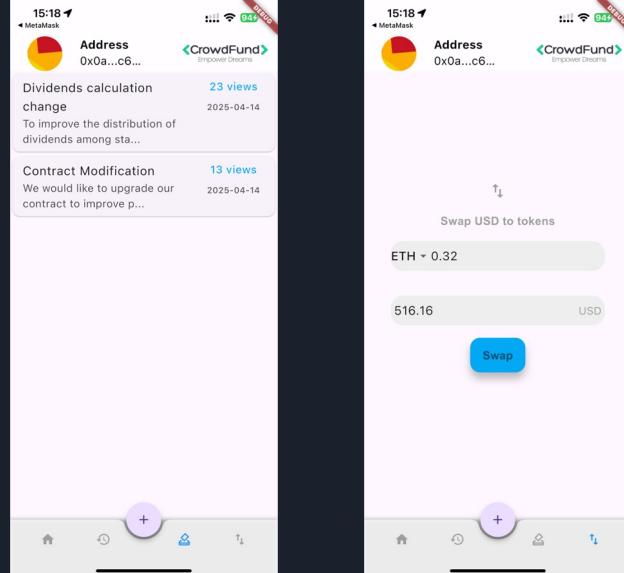
[This is a Sepolia Testnet transaction only]

Transaction Hash: 0x545c5ccb2b31a0009fc190250b9077c8a9cf602b168134a59a507ff42aa98 ⓘ  
Status: Success  
Block: 8119364 358 Block Confirmation  
Timestamp: 1 hr ago (Apr 14-2025 09:53:00 PM UTC)  
From: 0xca07CD8F..947D05828  
Interacted With (To): 0x4F3CD369..1c60e0890 ⓘ  
Internal Transactions:  
All Transfers Net Transfers  
Transfer 0.001 ETH From 0x4F3CD369..1c60e0890 To 0x4F3CD369..947D05828 ⓘ  
ERC-20 Tokens Transferred:  
All Transfers Net Transfers  
From 0x4F3CD369..947D05828 To 0x00000000..00000000 For 0.001 ERC-20: WTE (0mTXjt...) ⓘ

On-chain Record

# Future works

- Platform governance support
- Token swapping functionalities



- Providing support for invest share dividends