

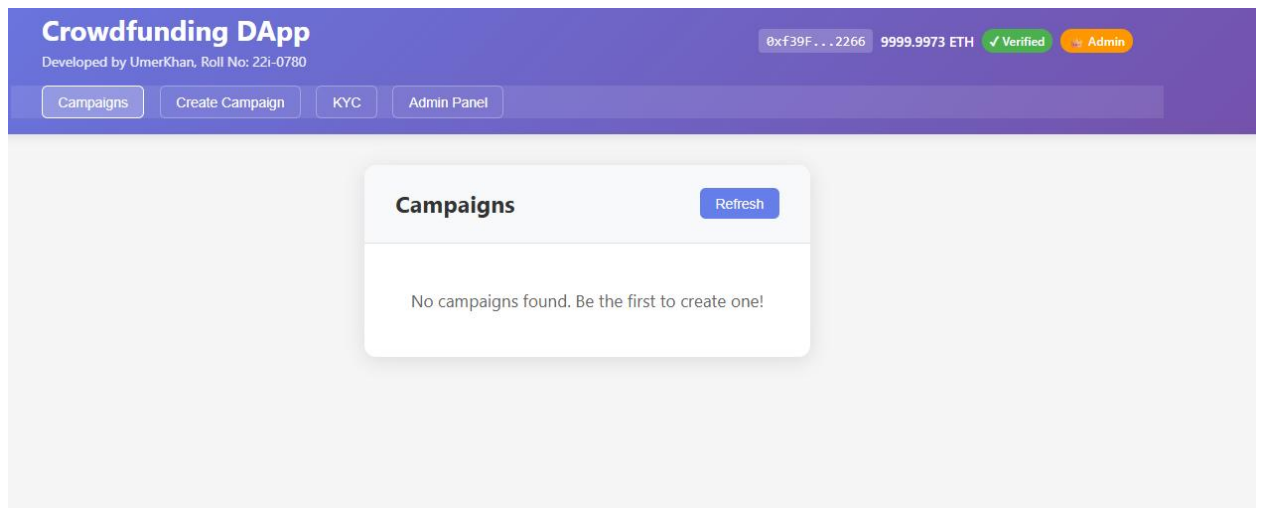
## Blockchain Assignment 2

Umer Khan

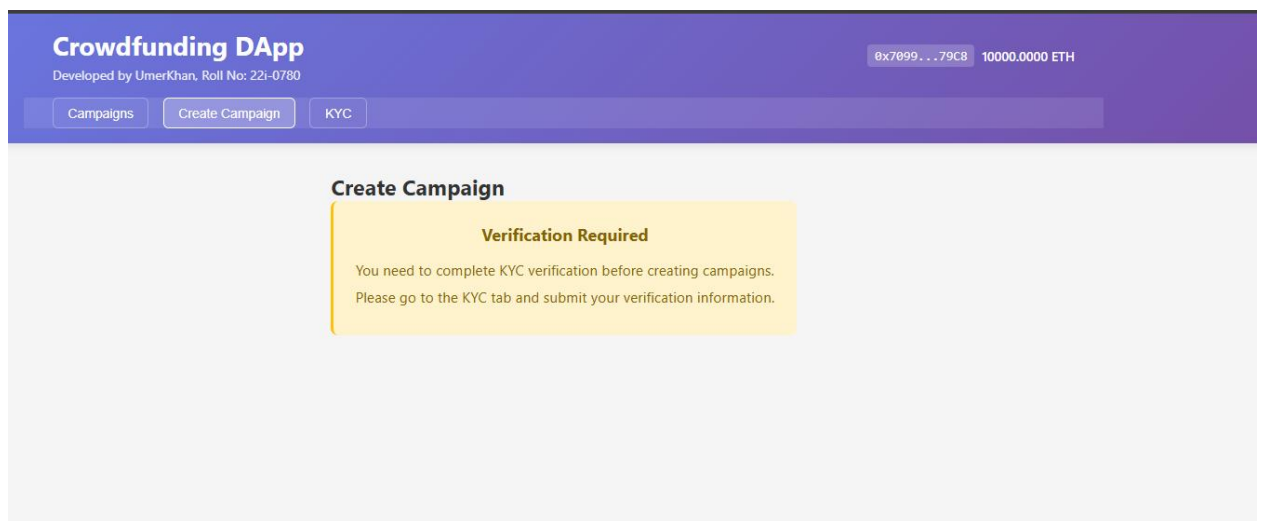
22i-0780

This Assignment implements a complete decentralized crowdfunding platform using blockchain technology. The platform enables verified users to create fundraising campaigns and allows anyone to contribute using Ether (ETH). The system implements a Know Your Customer (KYC) verification process to ensure only verified users can create campaigns, while maintaining transparency and security through smart contracts.

### 1) Creating Admin Account



### 2) Creating user account, non-verified initially as it requires admin approval.



3) User sends Full name and CNIC to submit KYC verification.

The screenshot shows the 'Crowdfunding DApp' interface with a purple header. The header includes the text 'Developed by UmerKhan, Roll No: 22i-0780' and a user address '0x7899...79C8'. Navigation buttons for 'Campaigns', 'Create Campaign', and 'KYC' are visible. The 'KYC Verification' form is centered, asking the user to 'Submit your KYC information to create crowdfunding campaigns.' It contains input fields for 'Full Name' (filled with 'Umer Khan') and 'CNIC' (filled with '3740543236993'), followed by a 'Submitting...' button. On the right, a dark transaction modal is open, showing details: 'Request from' (HTTP localhost:3000), 'Interacting with' (0x5FbDB...80aa3), 'Signing with' (Alert), 'Network fee' (0.0002 ETH), and 'Speed'. At the bottom of the modal are 'Cancel' and 'Confirm' buttons.

4) Admin finds any user requesting approval.

The screenshot shows the 'Crowdfunding DApp' interface with a purple header. The header includes the text 'Developed by UmerKhan, Roll No: 22i-0780' and user information: address '0xf39F...2266', balance '9999.9973 ETH', and status 'Verified Admin'. Navigation buttons for 'Campaigns', 'Create Campaign', 'KYC', and 'Admin Panel' are visible. The 'Admin Panel' is the active section, titled 'Manage KYC requests and monitor the platform.' It features a 'Check KYC Status' section with an input field containing the address '0x70997970C51812dc3A010C7d01b50e0d17dc79C8' and a 'Check Status' button. Below this, a box displays the 'KYC Status for 0x70997970C51812dc3A010C7d01b50e0d17dc79C8' with details: 'Name: Umer Khan', 'CNIC: 3740543236993', and 'Status: Pending' (indicated by a clock icon). At the bottom of this box are 'Approve' and 'Reject' buttons. Further down is a 'Platform Statistics' section with instructions: 'Use the check KYC status feature above to review and approve KYC requests. As an admin, you can approve or reject KYC requests for any user address.' At the very bottom is an 'Instructions' section.

## 5) Admin Approves

Crowdfunding DApp

Developed by UmerKhan, Roll No: 22i-0780

0xf39F...2266

9999.9972 ETH

✓ Verified

👤 Admin

Campaigns

Create Campaign

KYC

Admin Panel

Admin Panel

Manage KYC requests and monitor the platform.

KYC request approved for 0x70997970C51812dc3A010C7d01b50e0d17dc79C8

Check KYC Status

0x70997970C51812dc3A010C7d01b50e0d17dc79C8

Check Status

KYC Status for 0x70997970C51812dc3A010C7d01b50e0d17dc79C8

Name: Umer Khan

CNIC: 3740543236993

Status: ✓ Approved

Platform Statistics

Use the check KYC status feature above to review and approve KYC requests.  
As an admin, you can approve or reject KYC requests for any user address.

## 6) User is now verified and can create a campaign.

Crowdfunding DApp

Developed by UmerKhan, Roll No: 22i-0780

0x7099...79C8

9999.9998 ETH

✓ Verified

Campaigns

Create Campaign

KYC

Create New Campaign

Create a new crowdfunding campaign to raise funds for your project.

Campaign Title:

Enter campaign title

Description:

Describe your campaign and what you're raising funds for

Funding Goal (ETH):

Enter funding goal in ETH

Create Campaign

7) User creates a campaign with all required details.

Crowdfunding DApp

Developed by UmerKhan, Roll No: 22i-0780

0x7099...79C89999.9998 ET

CampaignsCreate CampaignKYC

Create New Campaign

Create a new crowdfunding campaign to raise funds for your project.

Campaign Title:

GreenWave: Planting 10,000 Trees in Urban Areas

Description:

Our mission is to combat air pollution by planting trees in underserved city neighborhoods. Each donation supports sapling purchase, planting, and maintenance by local volunteers.

Funding Goal (ETH):

1000

Creating Campaign...

Request fromHTTPlocalhost:3000

Interacting with0xe7f17...F0512

Network fee0.0006ETH

Speed

CancelConfirm

8) Campaign Added.

Crowdfunding DApp

Developed by UmerKhan, Roll No: 22i-0780

0xf39F...22669999.9972 ETHVerifiedAdmin

CampaignsCreate CampaignKYCAdmin Panel

Campaigns

Refresh

GreenWave: Planting 10,000 Trees in Urban Areas

Active

Our mission is to combat air pollution by planting trees in underserved city neighborhoods. Each donation supports sapling purchase, planting, and maintenance by local volunteers.

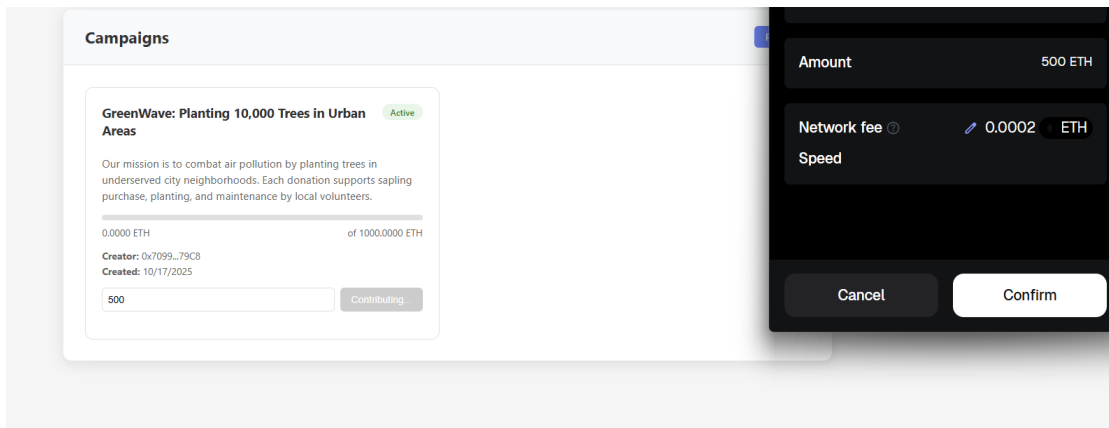
0.0000 ETHof 1000.0000 ETH

Creator: 0x7099...79C8

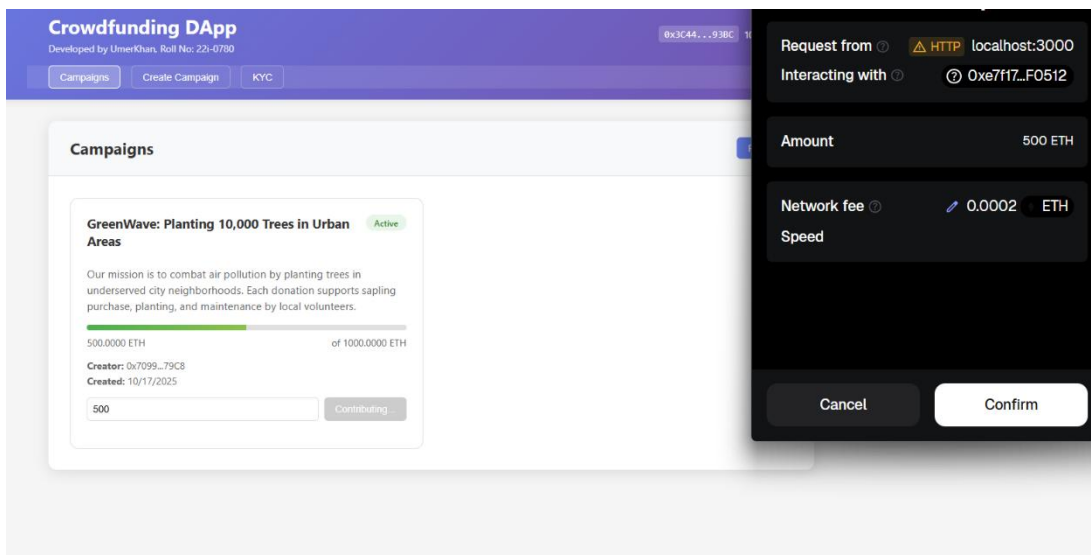
Created: 10/17/2025

Amount in ETHContribute

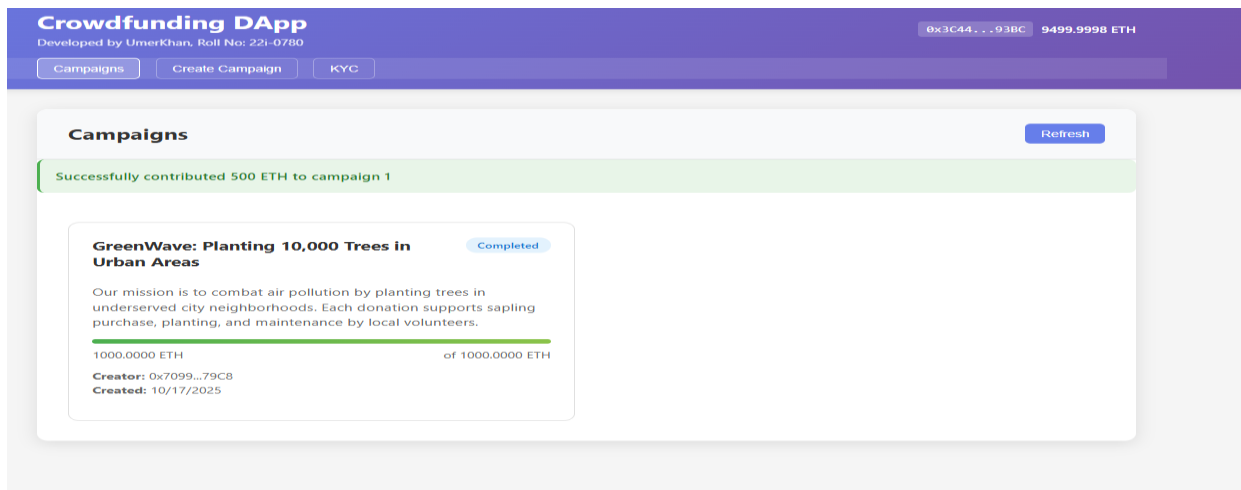
9) Admin contributes 500 ETH.



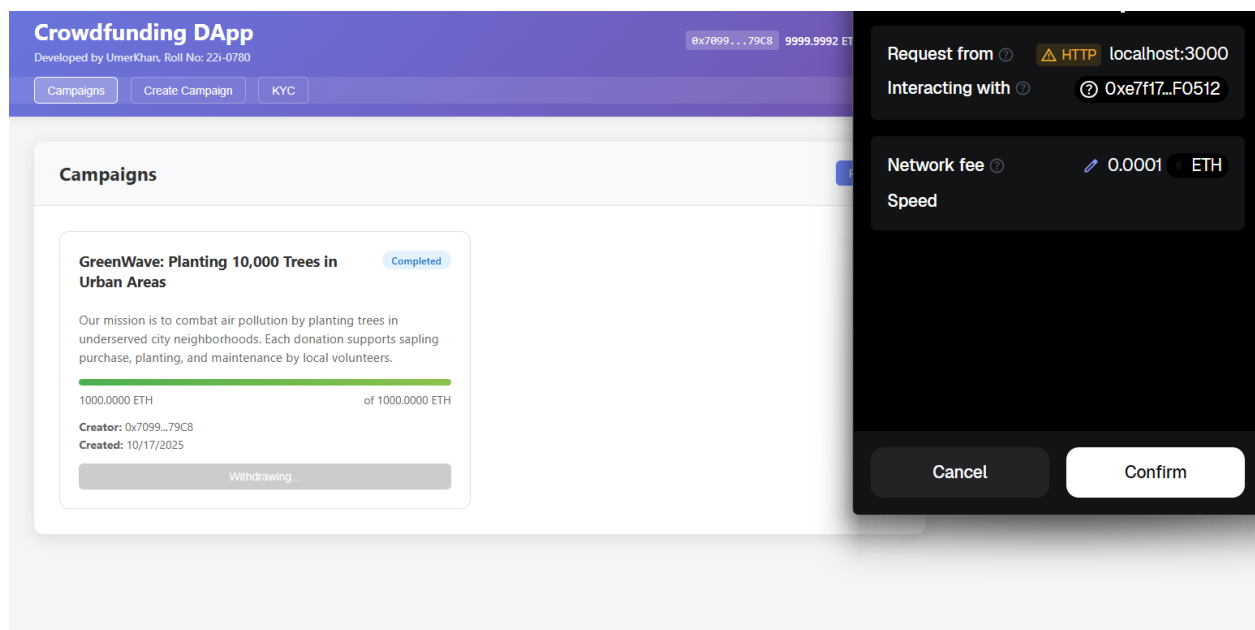
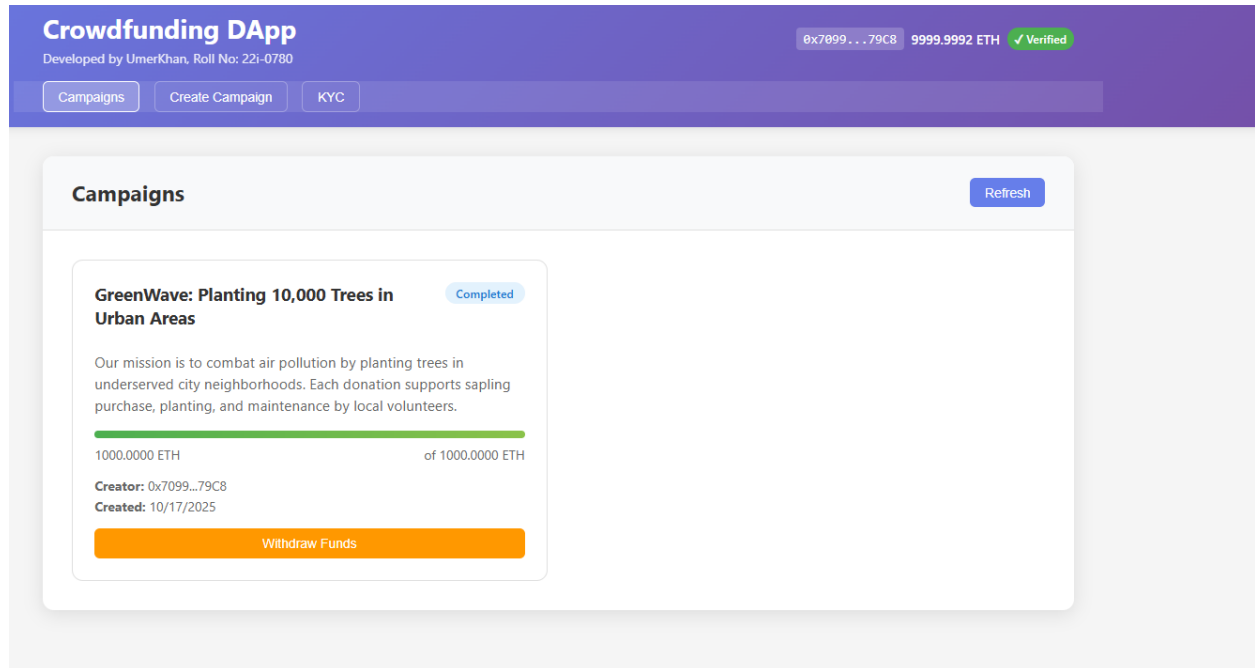
10) Even non verified can see campaign, and contribute- pays 500 ETH.



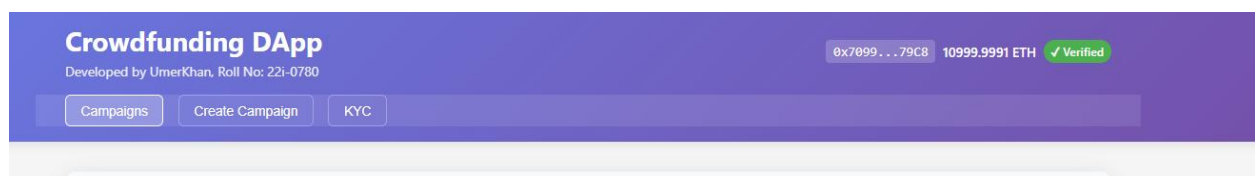
11) Since funds reached target, campaign marked as completed.



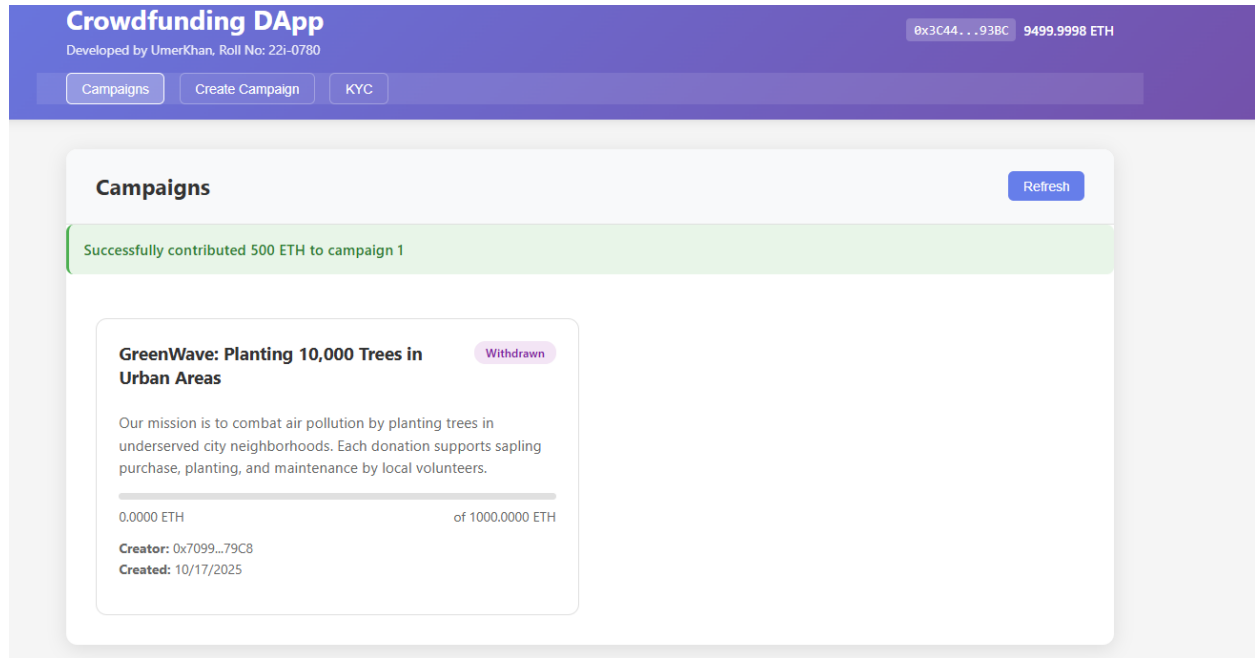
12) User withdraws amount.



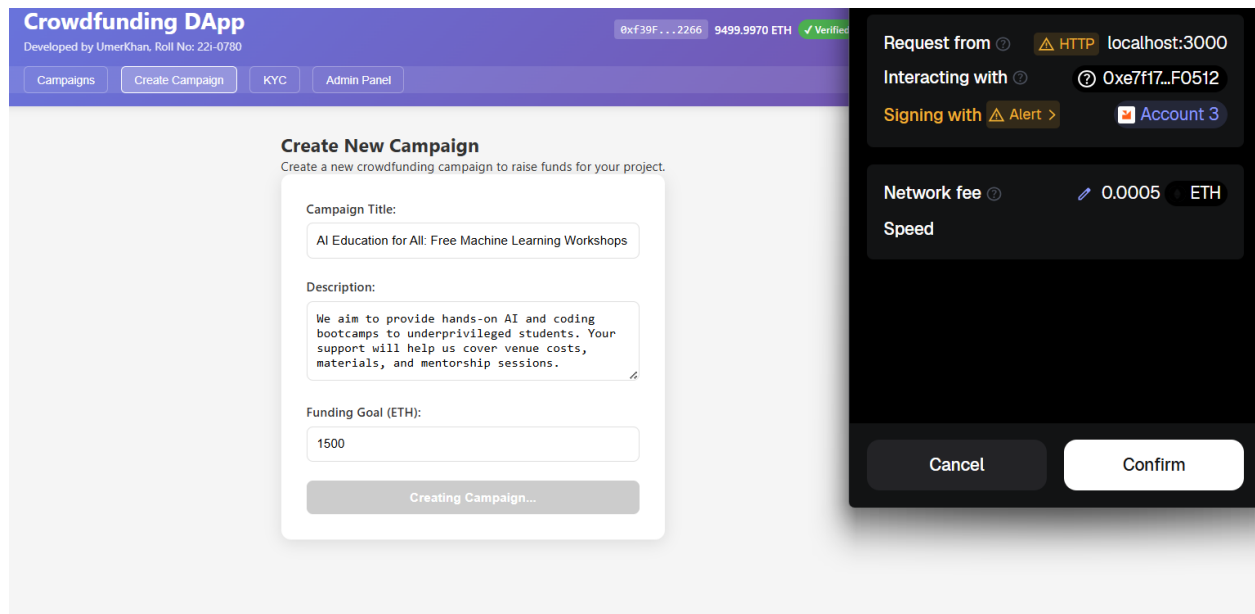
13) User Balance updated by 1000 ETH.



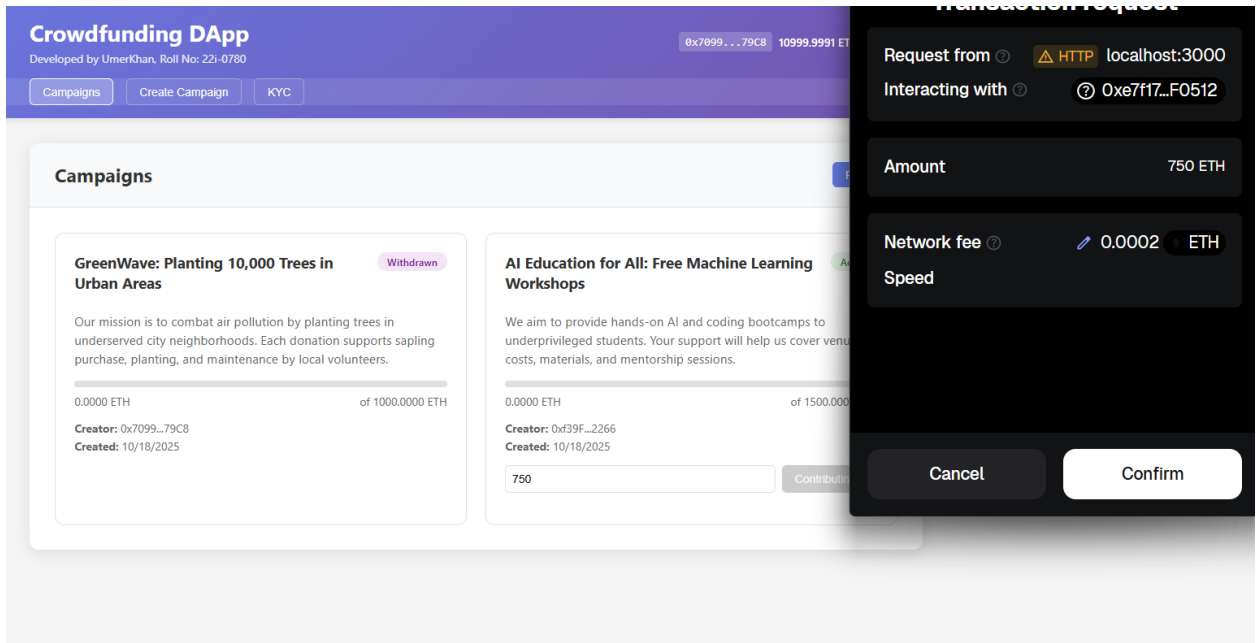
14) Others' balance was deducted by 500 ETH.



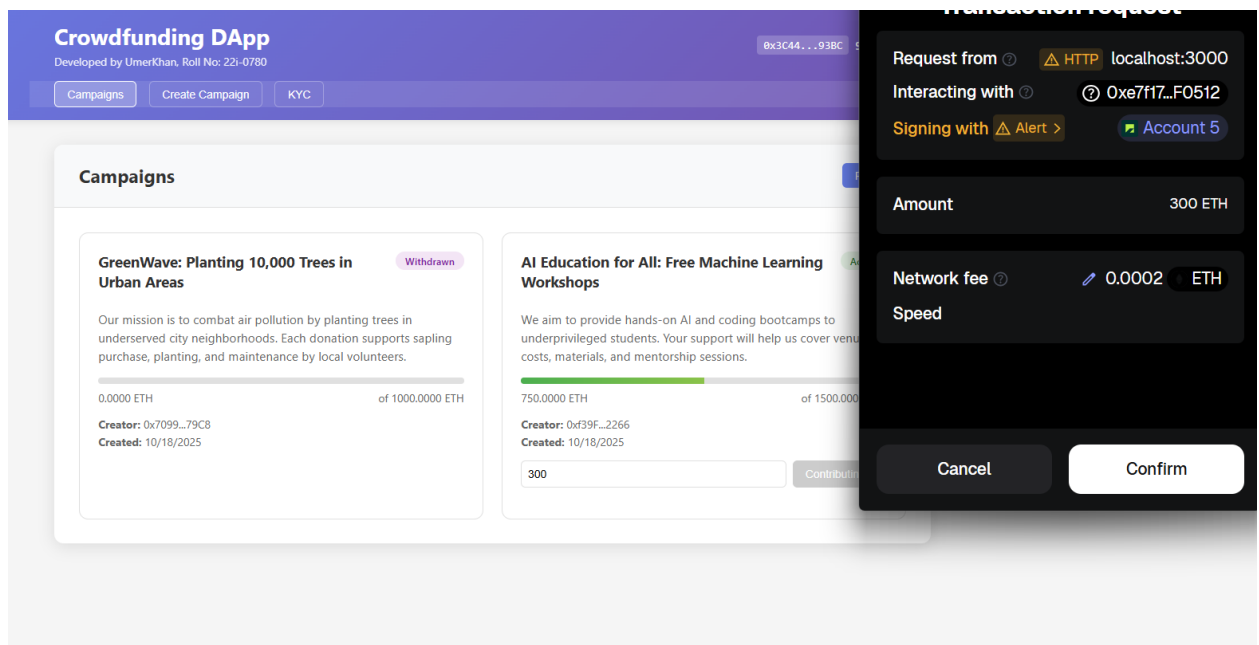
15) Admin creates another campaign.



16) User 1 contributes to campaign 2.

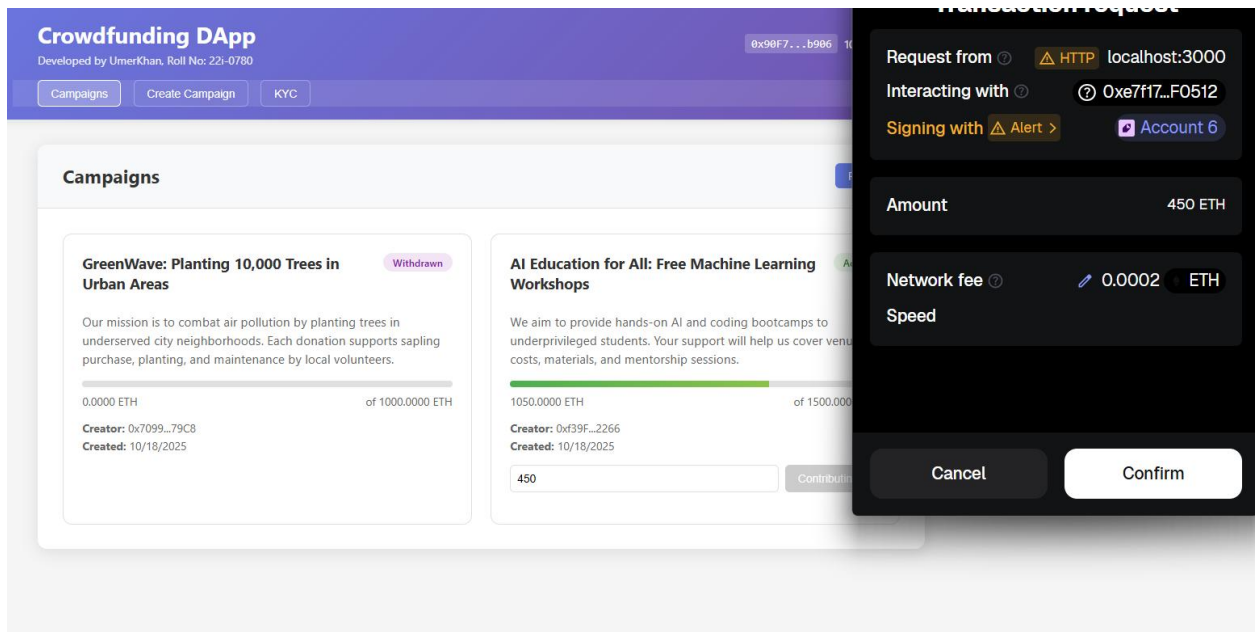


17) User 2 contributes to campaign 2.

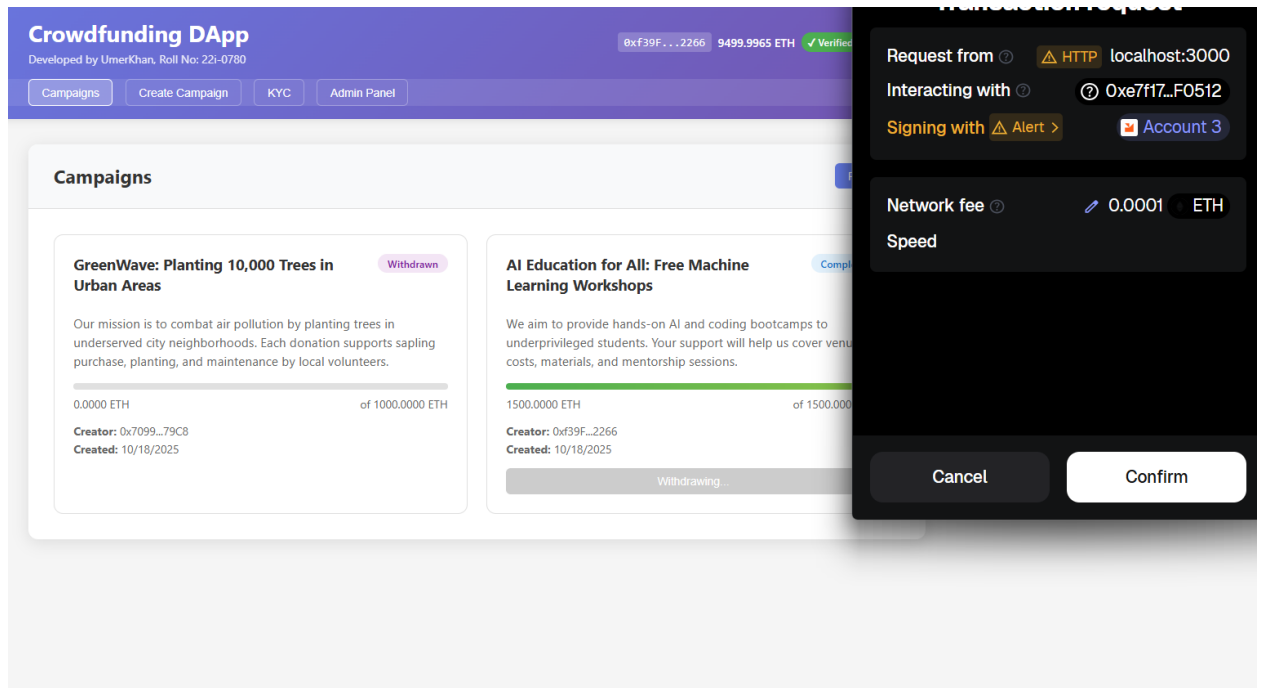




18) User 3 contributes to campaign.



19) Since target reached, admin withdraws.



20) Admin withdraws amount.

The screenshot shows the 'Crowdfunding DApp' interface. The header includes the app name, developer information, and the user's wallet address (0xf39F...2266) with a balance of 9499.9965 ETH and a 'Verified' status. The navigation bar contains buttons for 'Campaigns', 'Create Campaign', 'KYC', and 'Admin Panel'. The 'Campaigns' section displays two campaigns:

- GreenWave: Planting 10,000 Trees in Urban Areas** (Status: Withdrawn)
  - Mission: Our mission is to combat air pollution by planting trees in underserved city neighborhoods. Each donation supports sapling purchase, planting, and maintenance by local volunteers.
  - Progress: 0.0000 ETH of 1000.0000 ETH
  - Creator: 0x7099...79C8
  - Created: 10/18/2025
- AI Education for All: Free Machine Learning Workshops** (Status: Withdrawing...)
  - Mission: We aim to provide hands-on AI and coding bootcamps to underprivileged students. Your support will help us cover venue costs, materials, and mentorship sessions.
  - Progress: 1500.0000 ETH of 1500.0000 ETH
  - Creator: 0xf39F...2266
  - Created: 10/18/2025

A transaction confirmation modal is overlaid on the right, showing details for a transaction from localhost:3000 to account 3 (0xe7f17...F0512) with a network fee of 0.0001 ETH. The modal includes 'Cancel' and 'Confirm' buttons.

21) Admin balance updated.

The screenshot shows the 'Crowdfunding DApp' interface with the 'Admin Panel' selected. The header displays the user's wallet address (0xf39F...2266) with a balance of 10999.9964 ETH and a 'Verified' status, along with an 'Admin' button. The navigation bar includes buttons for 'Campaigns', 'Create Campaign', 'KYC', and 'Admin Panel'. The 'Campaigns' section shows a 'Refresh' button and a green notification bar stating 'Successfully withdrew funds from campaign 2'. Below this, two campaigns are listed:

- GreenWave: Planting 10,000 Trees in Urban Areas** (Status: Withdrawn)
  - Mission: Our mission is to combat air pollution by planting trees in underserved city neighborhoods. Each donation supports sapling purchase, planting, and maintenance by local volunteers.
  - Progress: 0.0000 ETH of 1000.0000 ETH
  - Creator: 0x7099...79C8
  - Created: 10/18/2025
- AI Education for All: Free Machine Learning Workshops** (Status: Withdrawn)
  - Mission: We aim to provide hands-on AI and coding bootcamps to underprivileged students. Your support will help us cover venue costs, materials, and mentorship sessions.
  - Progress: 0.0000 ETH of 1500.0000 ETH
  - Creator: 0xf39F...2266
  - Created: 10/18/2025

22) Admin can also reject KYC verification of user.

