

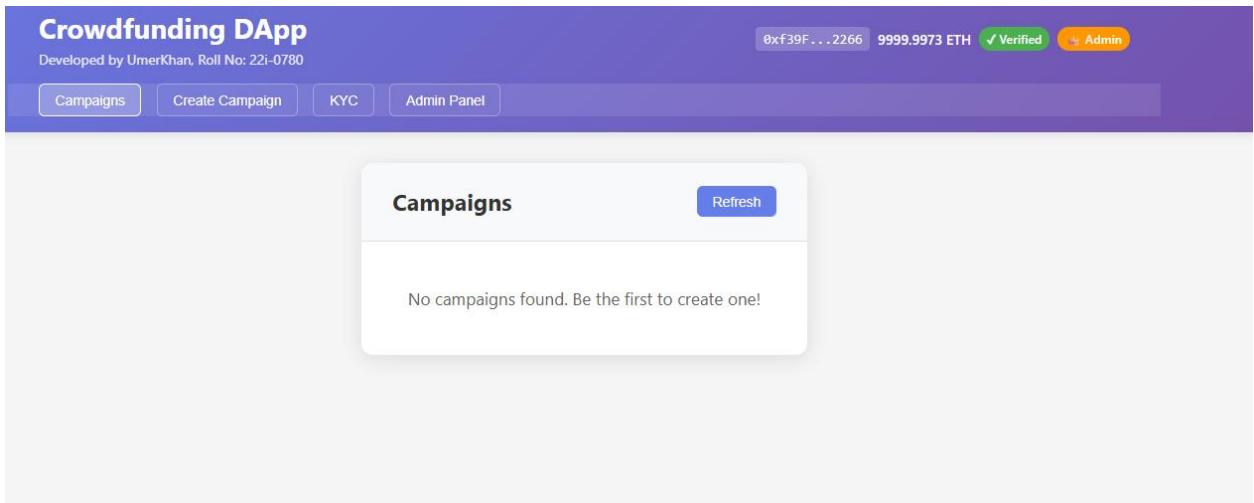
Blockchain Assignment 2

Umer Khan

22i-0780

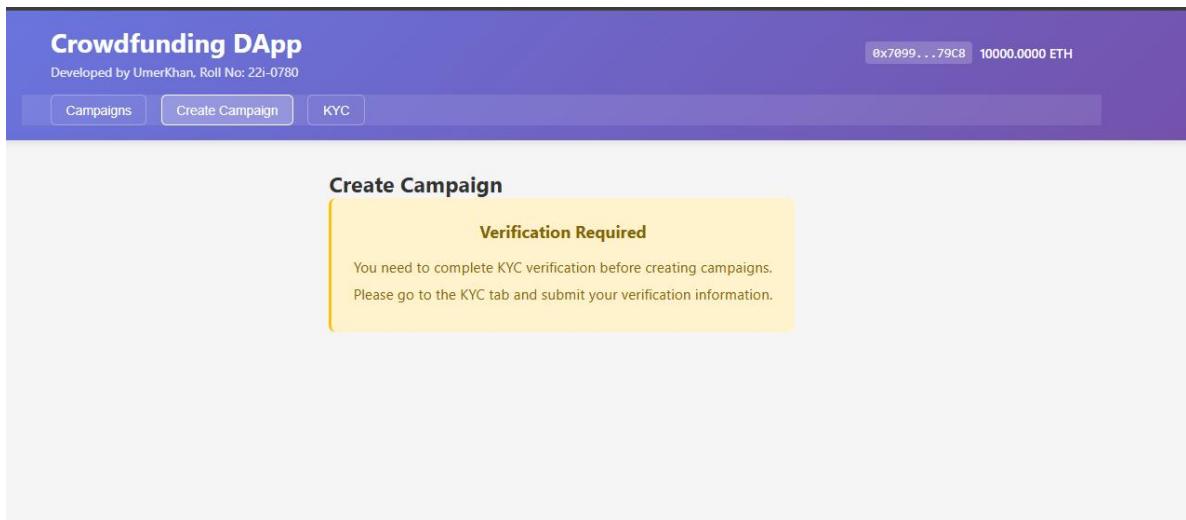
This Assignment implements a complete decentralized crowdfunding platform using blockchain technology. The platform enables verified users to create fundraising campaigns and allows anyone to contribute using Ether (ETH). The system implements a Know Your Customer (KYC) verification process to ensure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

1) Creating Admin Account



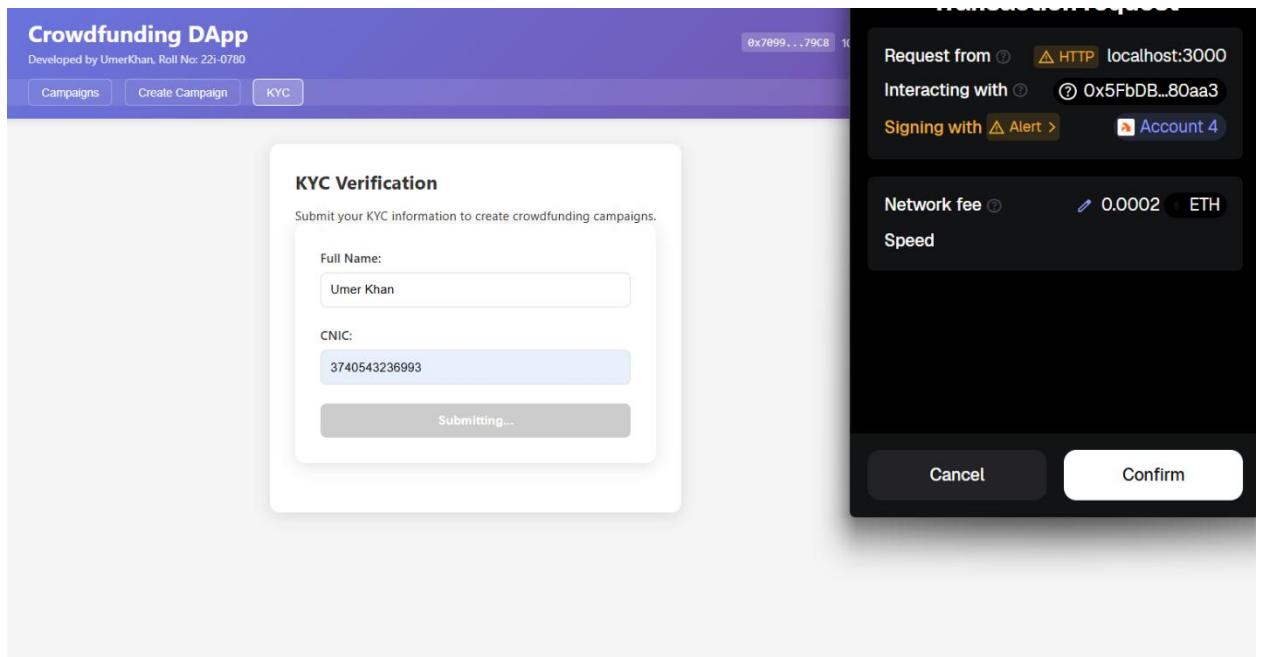
The screenshot shows the homepage of the "Crowdfunding DApp". At the top, there is a purple header bar with the title "Crowdfunding DApp" and a subtext "Developed by UmerKhan, Roll No: 22i-0780". To the right of the title, there are three status indicators: a blue button with the address "0xf39F...2266" and balance "9999.9973 ETH", a green button with a checkmark and the word "Verified", and an orange button with a person icon and the word "Admin". Below the header, there is a navigation bar with four buttons: "Campaigns" (selected), "Create Campaign", "KYC", and "Admin Panel". The main content area has a white background and a title "Campaigns" with a "Refresh" button. A message "No campaigns found. Be the first to create one!" is displayed in the center of the content area.

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

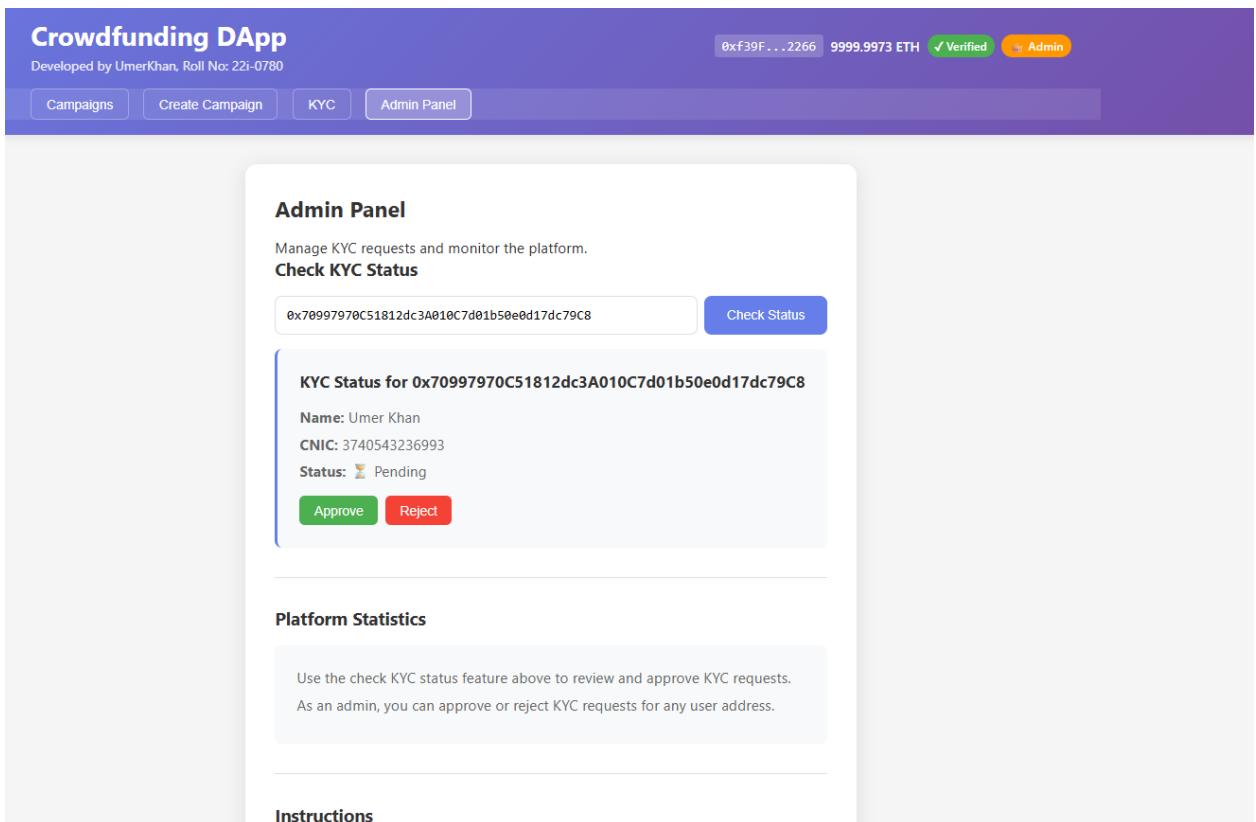


The screenshot shows the "Create Campaign" page of the "Crowdfunding DApp". The top navigation bar is identical to the previous screenshot, with the "Create Campaign" button being the active tab. The main content area has a white background and a title "Create Campaign". Below the title, there is a yellow callout box with a border. Inside the box, the heading "Verification Required" is displayed in bold. Below this, a message reads: "You need to complete KYC verification before creating campaigns. Please go to the KYC tab and submit your verification information." The rest of the page is blank, showing a large white space.

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



- 4) Admin finds any user requesting approval.



5) Admin Approves

The screenshot shows the Admin Panel of the Crowdfunding DApp. At the top, there is a purple header bar with the title "Crowdfunding DApp" and a sub-header "Developed by UmerKhan, Roll No: 22i-0780". On the right side of the header, there are three status indicators: "0xF39F...2266 9999.9972 ETH", "✓ Verified", and "Admin". Below the header, there is a navigation bar with four buttons: "Campaigns", "Create Campaign", "KYC", and "Admin Panel". The main content area is titled "Admin Panel" and contains the sub-section "Check KYC Status". A green notification box at the top of this section says "KYC request approved for 0x70997970C51812dc3A010C7d01b50e0d17dc79C8". Below this, there is a form field containing the same address "0x70997970C51812dc3A010C7d01b50e0d17dc79C8" and a "Check Status" button. To the right of the form, the KYC status is displayed: "Name: Umer Khan", "CNIC: 3740543236993", and "Status: ✓ Approved". Further down, there is a section titled "Platform Statistics" with a note: "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.

The screenshot shows the "Create New Campaign" page of the Crowdfunding DApp. The header is identical to the previous screenshot, with the title "Crowdfunding DApp", developer information "Developed by UmerKhan, Roll No: 22i-0780", and the same status indicators. The main content area is titled "Create New Campaign" and has a sub-instruction "Create a new crowdfunding campaign to raise funds for your project.". It contains three input fields: "Campaign Title" (with placeholder "Enter campaign title"), "Description" (with placeholder "Describe your campaign and what you're raising funds for"), and "Funding Goal (ETH)" (with placeholder "Enter funding goal in ETH"). At the bottom of the form is a large blue "Create Campaign" button.

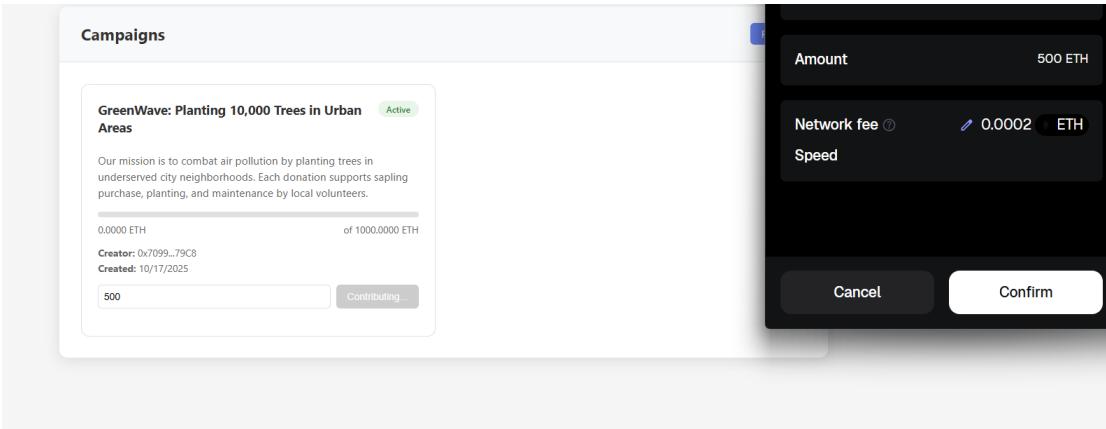
7) User creates a campaign with all required details.

The screenshot shows the 'Create New Campaign' interface. The campaign title is 'GreenWave: Planting 10,000 Trees in Urban Areas'. The description text is: '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.' The funding goal is set to 1000 ETH. A modal window on the right displays network fee information: Request from localhost:3000, interacting with Oxe7f17...F0512, network fee 0.0006 ETH, and speed. Buttons for 'Cancel' and 'Confirm' are visible at the bottom of the modal.

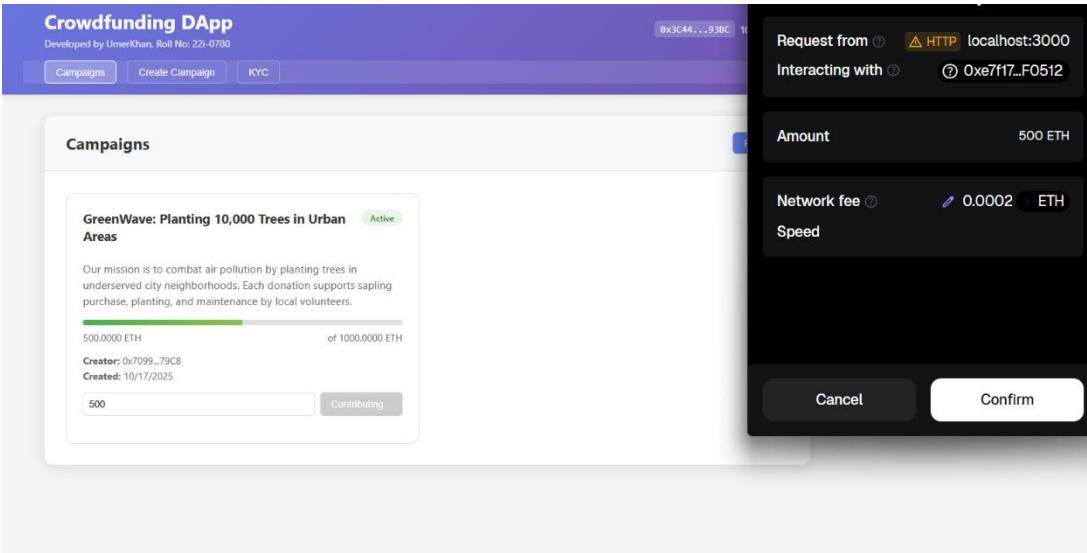
8) Campaign Added.

The screenshot shows the 'Campaigns' section of the DApp. It lists the campaign 'GreenWave: Planting 10,000 Trees in Urban Areas' as 'Active'. The description text is: '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.' Below the description, it shows the progress bar at 0.0000 ETH of 1000.0000 ETH, created by user 0x7099...79C8 on 10/17/2025. A 'Contribute' button is present. The top navigation bar includes 'Campaigns', 'Create Campaign', 'KYC', and 'Admin Panel'. The status bar at the top right shows the address 0xf39F...2266, 9999.9972 ETH, a green 'Verified' badge, and an orange 'Admin' badge.

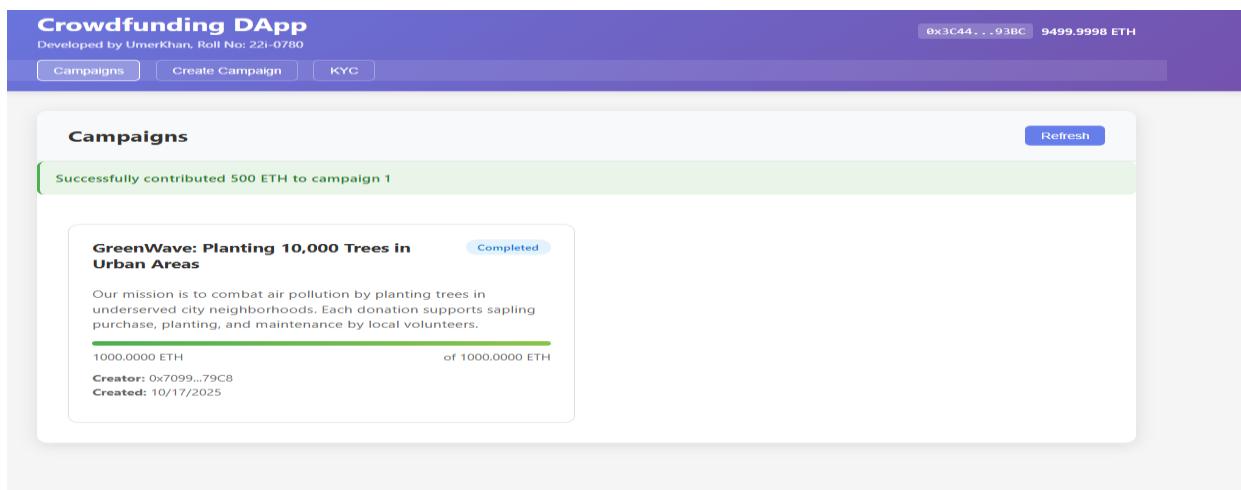
9) Admin contributes 500 ETH.



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.

The screenshot shows the 'Campaigns' section of the Crowdfunding DApp. At the top, there is a purple header bar with the app's name and developer information: 'Crowdfunding DApp', 'Developed by UmerKhan, Roll No: 22i-0780', and a balance indicator '0x7099...79C8 9999.9992 ETH' with a green 'Verified' badge. Below the header are three buttons: 'Campaigns', 'Create Campaign', and 'KYC'. The main content area displays a single campaign card for 'GreenWave: Planting 10,000 Trees in Urban Areas', which is marked as 'Completed'. The card includes a mission statement, a progress bar showing '1000.0000 ETH of 1000.0000 ETH' (fully funded), and details about the creator ('Creator: 0x7099...79C8') and creation date ('Created: 10/17/2025'). A prominent orange button labeled 'Withdraw Funds' is visible at the bottom of the card.

This screenshot shows the same 'Campaigns' section as above, but with a modal dialog box overlaid. The dialog contains the following information: 'Request from' (HTTP localhost:3000), 'Interacting with' (0xe7f17..F0512), 'Network fee' (0.0001 ETH), and 'Speed'. At the bottom of the dialog are two buttons: 'Cancel' and 'Confirm'. In the background, the campaign card for 'GreenWave' is partially visible with a gray overlay indicating it is being interacted with. The background UI elements like the purple header and other campaign cards are also present.

13) User Balance updated by 1000 ETH.

The screenshot shows the 'Campaigns' section again, but now with a different balance indicator. The purple header bar now shows '0x7099...79C8 10999.9991 ETH' and a green 'Verified' badge. The rest of the interface is identical to the previous screenshots, including the 'Campaigns', 'Create Campaign', and 'KYC' buttons, and the visible 'GreenWave' campaign card.

14) Others' balance was deducted by 500 ETH.

The screenshot shows the 'Crowdfunding DApp' interface. At the top, it displays the address 0x3C44...93BC and a balance of 9499.9998 ETH. Below this, there are tabs for 'Campaigns', 'Create Campaign', and 'KYC'. A green notification bar at the top says 'Successfully contributed 500 ETH to campaign 1'. The main section shows a campaign titled 'GreenWave: Planting 10,000 Trees in Urban Areas'. The description states: '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.' It shows a progress bar from 0.0000 ETH to 1000.0000 ETH. The creator is listed as 0x7099...79C8 and the creation date as 10/17/2025. There is also a 'Withdrawn' button.

15) Admin creates another campaign.

The screenshot shows the 'Crowdfunding DApp' interface. At the top, it displays the address 0xf39F...2266 and a balance of 9499.9970 ETH, with a green 'Verified' badge. Below this, there are tabs for 'Campaigns', 'Create Campaign', 'KYC', and 'Admin Panel'. On the left, a 'Create New Campaign' form is shown. The title is 'AI Education for All: Free Machine Learning Workshops'. The description box contains the text: '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.' The funding goal is set to 1500 ETH. A progress bar at the bottom of the form says 'Creating Campaign...'. On the right, a modal window is open for a transaction. It shows the recipient as Request from 0xf39F...2266, interacting with 0xe7f17..F0512, and signing with Account 3. It specifies a network fee of 0.0005 ETH and a speed setting. At the bottom of the modal are 'Cancel' and 'Confirm' buttons.

16) User 1 contributes to campaign 2.

The screenshot shows the Crowdfunding DApp interface. On the left, there's a list of campaigns. Two campaigns are visible: "GreenWave: Planting 10,000 Trees in Urban Areas" and "AI Education for All: Free Machine Learning Workshops". The second campaign has a progress bar at 0.0000 ETH of 1000.0000 ETH, and its creator is listed as 0x7099...79C8, created on 10/18/2025. A modal window titled "Transaction Request" is open over the interface. It shows the transaction details: Request from 0x7099...79C8 to localhost:3000, interacting with 0xe7f17..F0512, amount 750 ETH, network fee 0.0002 ETH, and speed. The "Amount" field is set to 750. At the bottom of the modal are "Cancel" and "Confirm" buttons.

17) User 2 contributes to campaign 2.

This screenshot is similar to the previous one, showing the same campaign details for "AI Education for All: Free Machine Learning Workshops". The progress bar is at 0.0000 ETH of 1500.0000 ETH, creator is 0xf39F...2266, and it was created on 10/18/2025. A transaction request modal is open, showing the same details as the first one: Request from 0x7099...79C8 to localhost:3000, interacting with 0xe7f17..F0512, amount 750 ETH, network fee 0.0002 ETH, and speed. The "Amount" field is set to 750. The modal also includes a "Signing with" section with an alert icon and a link to "Account 5". At the bottom are "Cancel" and "Confirm" buttons.

18) User 3 contributes to campaign.

The screenshot shows the Crowdfunding DApp interface. On the left, there are two campaign cards:

- GreenWave: Planting 10,000 Trees in Urban Areas**: Status: Withdrawn. 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. Progress bar: 0.0000 ETH of 1000.0000 ETH. Creator: 0x7099...79C8. Created: 10/18/2025.
- AI Education for All: Free Machine Learning Workshops**: Status: Pending. Description: 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 bar: 1050.0000 ETH of 1500.0000 ETH. Creator: 0xf39F...2266. Created: 10/18/2025.

A transaction request overlay is shown on the right, titled "Transaction Request". It includes the following details:

- Request from: 0x90F7...b906
- Interacting with: 0xe7f17..F0512
- Signing with: Account 6
- Amount: 450 ETH
- Network fee: 0.0002 ETH
- Speed: Fast

Buttons at the bottom of the overlay are "Cancel" and "Confirm".

19) Since target reached, admin withdraws.

The screenshot shows the Crowdfunding DApp interface. The "Admin Panel" tab is selected. A transaction request overlay is shown on the right, titled "Transaction Request". It includes the following details:

- Request from: 0xf39F...2266
- Interacting with: 0xe7f17..F0512
- Signing with: Account 3
- Network fee: 0.0001 ETH
- Speed: Fast

The "AI Education for All: Free Machine Learning Workshops" campaign card shows a progress bar at 1000.0000 ETH of 1500.0000 ETH, with the status "Completed". A "Withdrawing..." button is visible below the progress bar. Buttons at the bottom of the overlay are "Cancel" and "Confirm".

20) Admin withdraws amount.

The screenshot shows the 'Crowdfunding DApp' interface. At the top, it displays the developer information: 'Developed by UmerKhan, Roll No: 22i-0780'. Below this, the balance is shown as '0xf39F...2266 9499.9965 ETH' with a green 'Verified' badge. The main section is titled 'Campaigns' and lists two campaigns:

- GreenWave: Planting 10,000 Trees in Urban Areas**: Status: Withdrawn. 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.' Fundraising progress: 0.0000 ETH of 1000.0000 ETH. Creator: 0x7099...79C8. Created: 10/18/2025.
- AI Education for All: Free Machine Learning Workshops**: Status: Completed. Description: '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.' Fundraising progress: 1500.0000 ETH of 1500.0000 ETH. Creator: 0xf39F...2266. Created: 10/18/2025.

A modal window is open on the right side, showing a transaction details screen. It includes fields for 'Request from' (0xf39F...2266), 'HTTP' (localhost:3000), 'Interacting with' (0xe717...F0512), 'Signing with' (Account 3), 'Network fee' (0.0001 ETH), and 'Speed'. The modal has 'Cancel' and 'Confirm' buttons at the bottom.

21) Admin balance updated.

The screenshot shows the 'Crowdfunding DApp' interface again. The top bar now shows the balance as '0xf39F...2266 10999.9964 ETH' with a green 'Verified' badge and an orange 'Admin' badge. The 'Campaigns' section is identical to the previous screenshot, displaying the same two campaigns and their details. A green success message 'Successfully withdrew funds from campaign 2' is visible at the top of the campaign list. The overall layout is consistent with the previous screenshot, showing the updated balance and the completed withdrawal process.

22) Admin can also reject KYC verification of user.

The screenshot shows the interface of a Crowdfunding DApp. At the top, there's a purple header bar with the title "Crowdfunding DApp" and a sub-header "Developed by UmerKhan, Roll No: 22i-0780". On the right side of the header, it displays a wallet address "0x3C44...93BC" and a balance "9199.9995 ETH". Below the header, there are three buttons: "Campaigns", "Create Campaign", and "KYC". The main content area has a white background and a central box titled "KYC Verification". Inside this box, there's a sub-instruction "Submit your KYC information to create crowdfunding campaigns." followed by a section titled "Current KYC Status:" which lists the user's details: Name: Asad Abdullah, CNIC: 3243245355, and Status: X Rejected. The entire interface is set against a light gray background.