**DECENTRALIZED CHARITY PLATFORM**

The **Decentralized Charity Platform (DCP)**. This is a place where you can make donations to verified charities securely, transparently, and with complete trust. We use Ethereum for donations, so every contribution is recorded on the blockchain.

**Technology Stack:**

Frontend React.js

Smart Contract: Solidity

Blockchain Development: Hardhat

Wallet Integration: MetaMask

Backend: Ethereum Blockchain

Libraries: Web3.js, Hardhat, MetaMask

**1. Getting Started with DCP**

Before you start donating, you’ll need a few things:

* A **MetaMask** wallet installed in your browser (don't worry, we’ll guide you through it).
* Some **ETH (Ethereum)** in your wallet for making donations.
* A browser like Chrome or Firefox to access the platform.

Once you’ve got these, you’re good to go!

**2. Connecting Your Wallet**

Here’s how you can connect your MetaMask wallet to the platform:

1. **Download MetaMask**: If you haven’t installed MetaMask yet, head over to metamask.io and download the extension.
2. **Set Up MetaMask**: Open MetaMask, create a new wallet, and follow the prompts to set it up. If you already have one, just log in.
3. **Connect to DCP**: On the DCP homepage, look for the **Connect Wallet** button. Click it, and MetaMask will pop up asking for permission to connect. Simply approve the connection, and you’re all set!

**3. Selecting a Charity to Donate To**

Here’s the fun part! Once your wallet is connected:

1. **Browse Charities**: You’ll see a list of charities that you can donate to. Each charity has a short description, and you can click on their name to learn more about their cause.
2. **Select a Charity**: Choose the one you’d like to support by clicking on their name. You’ll be taken to a page where you can learn more details and see the charity’s donation history.

**4. Making a Donation**

Now, let’s get down to business—making a donation!

1. **Enter the Amount**: On the charity page, you’ll see an option to donate in **ETH** (Ethereum). Just enter how much you’d like to donate.
2. **Confirm the Donation**: When you’re ready, hit **Donate Now**. MetaMask will pop up and show you the transaction details—this is where you confirm the amount and the gas fees (transaction fees). Don’t worry, you’ll always know what you’re paying.
3. **Finalize**: Once you confirm, your donation will be sent to the charity’s wallet on the Ethereum blockchain. You’ll get a notification once the transaction is successful!

**5. Viewing Your Donation**

After donating, it’s nice to know how everything went, right? Here’s what you can expect:

* **Transaction Confirmation**: Once your donation is processed, you’ll see a confirmation on the platform with all the details—how much you donated, the charity’s name, and even a unique transaction ID.
* **Donation History**: You’ll be able to see all your donations in your **Donation History** section. This includes the charity, amount donated, and the date. You can always come back and review your past contributions.

**6. Verifying Your Donation**

The best part about blockchain? **Transparency!**

* Every donation is recorded on the Ethereum blockchain. That means anyone can verify the donation by looking up the **transaction hash** provided after you donate.
* You can verify donations using platforms like etherscan. Just paste the transaction hash, and you’ll be able to see the entire transaction history.

We want to make sure your donation goes to the right place, so you can always double-check with blockchain explorers.

**7. Troubleshooting**

If something’s not working as expected, here’s how to fix the most common issues:

1. **Can't Connect to MetaMask**:
   * Make sure MetaMask is installed and unlocked.
   * Ensure you're on the right network (Ethereum Mainnet) in MetaMask.
   * Try refreshing the page.
2. **Donation Transaction Failed**:
   * Check if your wallet has enough ETH for both the donation and gas fees.
   * If the transaction still fails, make sure your internet connection is stable and try again.
3. **Donation Not Showing Up**:
   * Transactions can take a few minutes to process. Refresh the page and check your donation history.
   * If it’s still missing, look up the transaction hash on **Etherscan** to see if the donation was successfully recorded.
4. **Unable to See Charity Details**:
   * Make sure you’ve selected a charity from the list.
   * If you're still facing issues, try reloading the page.

**8. Contact Support**

If you’re still having trouble or have any questions, we’re here to help:

* **Email Support**: support@dcpcharity.org
* **Telegram**: @DCPCharitySupport
* **GitHub Issues**: [DCP GitHub Repository](https://github.com/dadsec-dev/decentralized-charity-Dapp)