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# Digipay

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## A Blockchain-Based Wallet Website

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This project aims to introduce users to blockchain and Web3 functionalities by integrating with MetaMask, allowing transactions via a custom website wallet, and utilizing Superfluid for stream transactions. It features a comprehensive user system with registration and login capabilities, transaction history, and the generation and use of test tokens for transactions.

## Features

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1. **MetaMask Integration:** Prompt users to connect their MetaMask wallet upon visiting the website.
2. **Display Account Details:** Show the connected MetaMask account's address and balance.
3. **Website Wallet Functionality:** Enable users to send cryptocurrency from their MetaMask account to another recipient's address. These transactions are recorded on the blockchain.
4. **Transaction History:** Display a history of all user transactions made through the website.
5. **User Authentication System:** Include a registration and login system, with MongoDB or MySQL as the database backend. Unique email addresses are used for registration. Transactions can be filtered by the user's email address (stored in the blockchain transaction in a secure manner).
6. **Superfluid Integration:** Implement a separate wallet feature using Superfluid for creating, updating, and deleting money flows.
7. **Test Token Generation:** Allow users to generate test tokens for use in transaction testing.

8. **Educational Content:** Provide users with information on blockchain and Web3 to educate them on the technology's uses and implications.
9. **Superfluid Wallet Functions:** Detailed functionalities for creating, updating, and deleting flows with Superfluid.

## Technology Stack

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- **Frontend:** React, Vite
- **Blockchain Interaction:** Web3.js or Ethers.js, Solidity for smart contracts
- **Backend:** Node.js, Express.js for server-side logic
- **Database:** MongoDB or MySQL
- **Blockchain Technologies:** MetaMask, Superfluid
- **Testing:** Hardhat or Truffle for smart contract testing