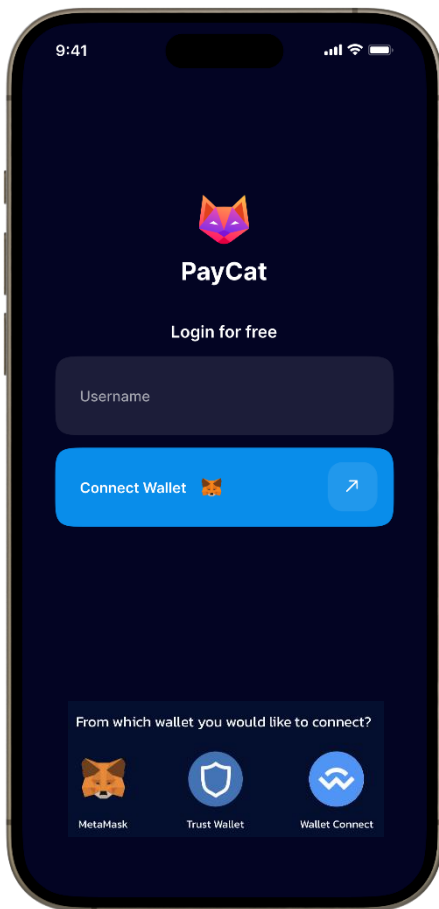# PayCat

Paycat: A decentralized marketplace Dapp with a crypto payment and Peer-to-Peer messaging integration.

Paycat Development Lap (PDL)
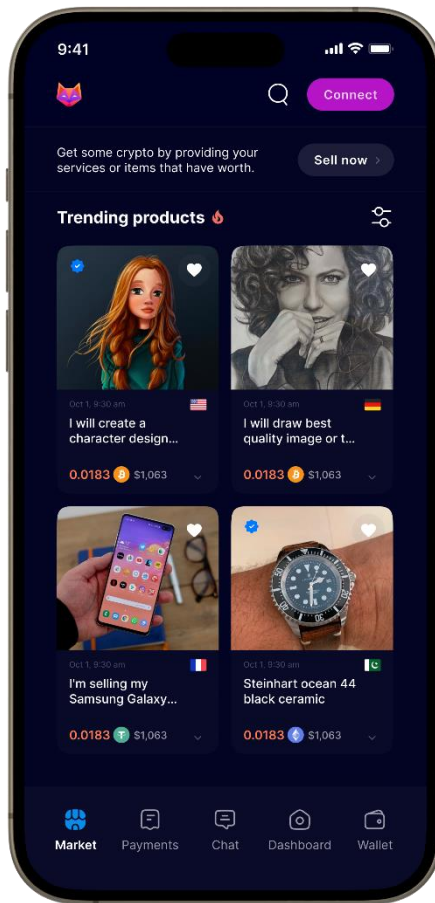
Abstract. The objective of the Paycat Dapp is to offer a solution for crypto holders, enabling them to use their coins directly on our platform for purchasing goods and services. This eliminates the need to transfer them to a centralized exchange (CEX) for conversion into fiat currency before transferring to their bank account thereby avoiding associated fees and government taxes. On the Paycat platform, users can post services or items for sale and accept transactions in their chosen cryptocurrency. Alternatively, they can buy items using their crypto. Paycat also provides users with the ability to chat during their transactions and transfer cryptocurrency to each other securely. Paycat integrates a sophisticated smart contract that ensures the safe expenditure of crypto on the Dapp. When an item is purchased on the Dapp, the funds spent on the transaction are sent to a smart contract. Simultaneously, the seller receives a notification indicating a new buyer. The seller then do the delivery. When the service is delivered, the buyer can approve reception. Only then is the crypto fund sent from the smart contract to the seller's wallet.
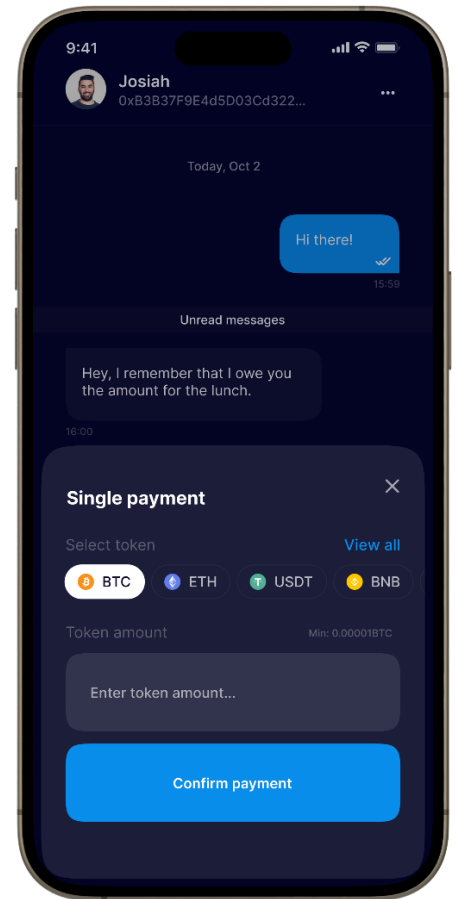
1. Introduction

The crypto industry is teeming with talented individuals seeking to monetize their skills, whether they are NFT designers, animators, blockchain developers, or full-stack developers. It's also a space where people aim to trade real-world items using their cryptocurrency. Paycat plays a crucial role in this context. Paycat provides an ecosystem where users can showcase and promote their talents, offering a platform to sell a wide range of items, from second-hand smartphones to creative services like drawings, paintings, and design. Paycat is designed to be user-friendly, allowing for social interactions, contact additions, chats, and seamless crypto transfers within the platform.

Wallet Connection

Marketplace

Messaging with crypto payment integration

2.   How does the Dapp work?

You can utilize the Dapp without wallet connection. In this case, it will only be possible to view items or services posted by other users on the marketplace. To engage a conversation with a seller, post an item/service, or make a purchase, you must connect your wallet to the Dapp. For this purpose, our Dapp provides multiple decentralized wallet alternatives, including MetaMask, Trustwallet, and WalletConnect library implementation, offering a wide range of wallet connection options. Once connected, here are the steps to follow:
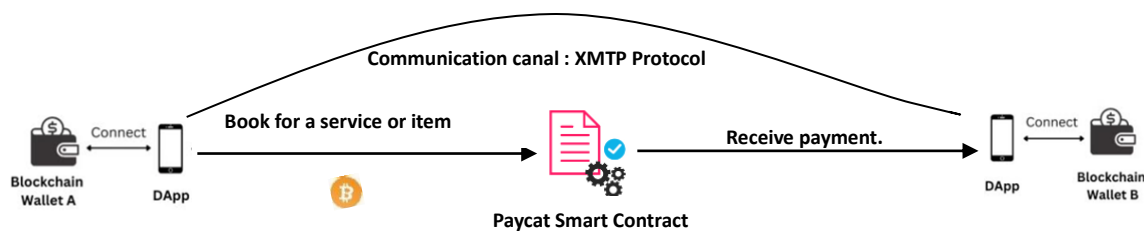
2.1.   you're a Seller?

- **Steps 1:** configure your profile: add a profile picture (an NFT for example), edit your username.
- **Step 2:** add contact (friends, family, or business partners), the contact must be a paycat user.

- **Step 3:** post an items or service for sale (you will have to choose the category of the service, your country, the cryptocurrency in wish you want to be paid (you can choose many coins)
- **Step 4:** validate your offer and your product is online and now visible to all paycat users.

2.2. You're a buyer?

- **Step 1:** configure your profile: add a profile picture (an NFT for example), edit your username.
- **Step 1:** search for the item or service that you need.
- **Step 2:** contact the seller by sending him a chat message (here you will be able to ask for more details or a price reduction)
- **Step 3:** After contacting the seller, you can now book the service or item by selecting the coin you wish to use for payment and approve transaction.
- **Step 4:** When you receive the service or item, approve the transaction so that the seller can receive his payment.

Setp1: Wallet A (the buyer) will book an item or service, the crypto payment will be hold in a smart contract.

Step 2: wallet B (the seller) will receive a buy notification or a message from wallet B.

Step3: wallet B will do the delivery.

Step 4: wallet A will receive the service and approve the payment, then this approval action will trigger the transfer of the fund from the smart contract to the seller wallet.

The chat between two paycat users will be powered by XMTP protocol that provides secure and private messaging between blockchain accounts, with an emphasis on decentralization.

2.3. What happens if the seller doesn't deliver the service? or the buyer doesn't approve the reception after receiving the service?

If the buyer receives the service and doesn't approve the payment or the seller receives a command but doesn't do the delivery, the paycat team will trigger the arbitrage mechanism and the fund Hold funds in the smart contract will be directed into the right wallet (the funds redirection is possible only between seller and buyer's wallet according to the situation). The seller must submit the delivery receipt if the product is a physical one so that we can track the package.

3. Business model and profit distribution

3.1. 1st source of income: Small Tax on sell transactions: 1%.

Paycat Dapp will make money out of taxes every buy and sell transaction on the Dapp (not to be confused with the token trading tax). At the beginning the tax will be set to 0% to attract users to the Dapp but when the Dapp matures, we will set a small tax of 1% on every sell transaction done on the Dapp.

3.2. 2nd source of income: a monthly subscription for the professional seller account (account with the PRO badge)

The pro account will have to pay a monthly subscription. The subscription will only be activated when the Dapp matures. For the beginning the subscription will be **0 USDT** but when the Dapp matures, will set it to **25 USDT** monthly.
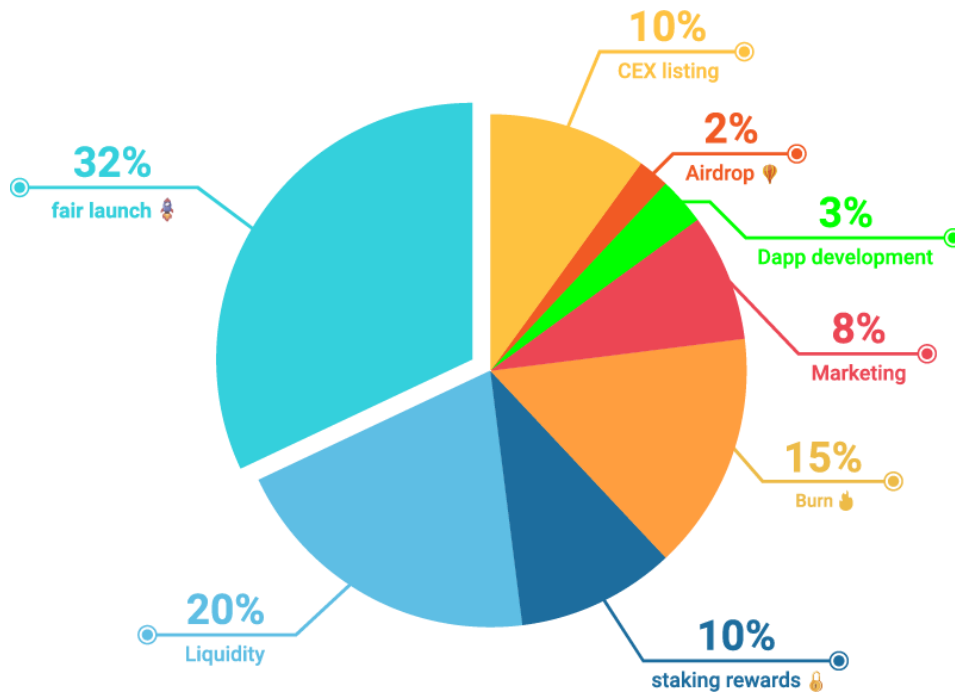
3.3. Distribution of the Dapp revenue to the Paycat Community

- **70%** of the revenue made from the Dapp will be used to buy the paycat token and **Burn:** This will make the price of the paycat token to pump providing value to the project and profit to the investors.

- **30%** will be used for Dapp development and Dapp maintenance: this will provide funds so that we can continue to ameliorate the Dapp and implement other features.

4. Tokenomics

4.1. Paycat Token distribution

The Total Supply of the paycat token will be **100M tokens** distributed as follow:

- The 10% staking reward will be locked and connected directly to the staking smart contract.
- 15% of the total supply will be Burn at launch.

4.2. Paycat token taxes

Buy Tax: 2%	Sell Tax: 4%
• 1% Dapp Dev & maintenance • 1% Staking Reward	• 2% Marketing • 1% Dapp Dev & maintenance • 1% Liquidity