

# Documentation

# Welcome

Welcome to the ChainMLM Whitepaper! Here you'll get an overview of all the amazing features GitBook offers to help you build beautiful, interactive documentation.

You'll see some of the best parts of GitBook in action — and find help on how you can turn this template into your own.

## Jump right in



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# Getting Started

# Introduction

The global rise of decentralized finance (DeFi) and blockchain-based income systems has revealed inefficiencies in traditional referral programs — especially those involving fixed matrix placements. CHAINMLM solves this through a refined matrix logic that automates reinvestment cycles, prevents overflow bottlenecks, and ensures dynamic community participation.

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## Key Features

- **Dual Matrix Architecture:** Operates with two distinct programs: X4 (2×2) and XXX (2+4+8).
- **Automated Reinvestment Logic:** Ensures reinvestments only occur when user matrices are complete and avoids recursive transaction failures.
- **Fixed Overflow Handling:** Patented overflow logic ensures continuity even if a user's matrix is full or blocked.
- **Transparent Token Economy:** All transactions use CHAINMLM AI Token with deterministic, on-chain logic.
- **Fully On-Chain Referrals:** Hierarchical referral structure is permanently stored on the blockchain.
- **User-Initiated Reinvestment:** Adds security by avoiding involuntary reentrancy vulnerabilities.
- **Team & Earnings Stats:** In-depth on-chain analytics for earnings, team size, network depth, and more.

# Token Utility

All financial interactions on the platform use the CHAINMLM AI token, an ERC-20 compliant token with 18 decimals. Users require CHAINMLM tokens to register, activate levels, and reinvest. Payouts to users also occur in CHAINMLM tokens.



## Platform Architecture

### 1. User Registration

- Requires specifying an existing referrer.
- Users pay for Level 1 activation in both X4 and XXX programs (total =  $\text{levelCosts}[1] * 2$ ).
- The system prevents self-referral and ensures the referrer is already registered.
- Registration emits an on-chain Registration event.

## 2. Dual Matrix System

### X4 Program (2×2 Structure)

- First Line: 2 direct referrals.
- Second Line: 4 spillover positions.
- Matrix Closure: Occurs after 6 total referrals.
- Payout: Goes to the matrix upline and the referrer depending on line placement.

### XXX Program (2+4+8 Structure)

- First Line: 2 direct.
- Second Line: 4 referrals (30%/70% split between referrer/upline).
- Third Line: 8 referrals (70%/30% split).
- Matrix Closure: 14 total referrals trigger closure.

## 3. Level Progression

- 12 Levels per program.
- Costs double at each subsequent level.
- Levels must be unlocked sequentially.
- Level activation emits a LevelActivated event.

## 4. Reinvestment Mechanics

- Matrices are not auto-reinvested after completion.
- Users must manually reinvest via `reinvestMatrix()` to reduce gas issues and prevent exploits.
- Complete matrices are marked as blocked to halt further placements until cleared.
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# Overflow Handling

- If a matrix is full, the system recursively seeks the next eligible referrer via `_findNextAvailableReferrer`.
  - Ensures consistent referral tree growth without failure or data corruption.
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## Earnings Model

Earnings are distributed based on the matrix line, program type, and user's position. Payments are executed using secure internal transfer methods (`_sendPayment`) with validations:

- Referrer and upline receive specified percentages based on line.
- All payouts are recorded via the `PaymentSent` event.
- Each user has on-chain earnings stats stored under `programEarnings`.
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# Technical Fixes & Innovations

## ✓ Fixed 6th Referral Bug

- Previous issues with matrix overflows on the 6th referral are resolved via state checks and blocking logic.

## ✓ Safe Reinvestment Logic

- Avoids gas spikes and transaction rollbacks by requiring user-initiated reinvestments.

## ✓ Fallback Matrix Routing

- Guaranteed placement of new users via fallback referral tracing up to 20 levels deep.

## ✓ Robust Payment Pipeline

- Each transaction ensures recipient validity, sufficient contract balance, and emits a traceable event.
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# Analytics & Transparency

The platform includes a suite of on-chain views and stats:

- Referral Lists & Paginated Fetching
- Team Earnings & Network Depth
- Active Levels & Matrix Status
- Recent Registrations & Reinvestment Eligibility

All analytics functions are accessible by third-party platforms or explorers via the public view methods.

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# Basics



# CHAINMLM User Guide

How to Use the Platform from Start to Earnings

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## ✓ 1. Getting Started

What You Need

- A crypto wallet (e.g. MetaMask, Trust Wallet)
- Some USDT (ERC-20) or ETH for gas fees
- A small amount of CHAINMLM tokens (get from DEX or CHAINMLM website)
- A referral link or referrer wallet address (you cannot register without one)

# Registration



## Steps to Register

1. Connect your wallet to the CHAINMLM platform.
2. Enter your referrer's wallet address (the person who invited you).
3. Approve the transaction to activate Level 1 in X4 and XXX (cost: 5 CHAINMLM \* 2 = 10 CHAINMLM).
4. Confirm the transaction in your wallet.

🎉 Once the transaction is confirmed, your account is live and your referral matrix begins building.

# Understanding the Matrix Programs

## Program 1: X4 (2×2 Matrix)

- 1st Line: 2 direct referrals
- 2nd Line: 4 spillovers
- Total of 6 positions per cycle
- Earnings: 100% of referrals on your line (based on placement)
- After completion, you need to reinvest manually

## Program 2: XXX (2+4+8 Matrix)

- 1st Line: 2 direct
- 2nd Line: 4 users — income split 30% to you, 70% to your upline
- 3rd Line: 8 users — income split 70% to you, 30% to upline

After 14 referrals, matrix is full and requires manual reinvestment


# Activating Higher Levels

## Why Upgrade?

- To earn from users joining below you at those levels
- To avoid losing commissions due to being "blocked" at that level

## How to Upgrade

1. Go to your Dashboard
2. Select the X4 or XXX tab
3. Click on the next level you want to activate
4. Approve the token transaction

 Level costs double each time: 5 → 10 → 20 → ... up to Level 12.

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# Reinvesting Manually

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Unlike other platforms, CHAINMLM uses manual reinvestment to avoid gas issues and hacking risks.

When Should You Reinvest?

- After completing a matrix cycle (X4 or XXX)
- When your matrix shows as “blocked”

How to Reinvest

1. Go to your Matrix View
2. Click on the Reinvest button for the completed level
3. Confirm the transaction in your wallet



# Earnings & Withdrawal

## How You Earn

- From direct referrals
- From spillovers in your downline
- From your team's activity in both X4 and XXX
- From reinvestments of people below you

## How to Withdraw

Earnings are instantly sent to your wallet when you qualify (no separate withdrawal step):

- ✓ No lock
- ✓ No delays
- ✓ No withdrawal buttons

You can swap CHAINMLM tokens to USDT or ETH on supported DEXs or via CHAINMLM's official swap page.

# Tracking Your Team & Earnings

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The platform offers rich analytics including:

- Team size and structure
  - Total referrals and earnings
  - Matrix status (active, blocked, full)
  - Level history
  - Eligible reinvestments
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## 8. Safety & Best Practices

- Use only the official CHAINMLM website
- Double-check smart contract addresses
- Never share your seed phrase
- Use a hardware wallet for large earnings
- Reinvest promptly to keep earning



# Summary Flow

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Step	Action	Token Needed
1	Register + Level 1 activation	10 CHAINMLM
2	Share your referral link	Free
3	Earn from referrals/spillover	Auto-payout
4	Reinvest completed matrices	Manual
5	Upgrade levels as needed	Varies
6	Use your earnings freely	Instant