

VeryTontine — MVP (Flutter + Sui Move)

Project Overview

VeryTontine is a mobile-first decentralized savings circle platform built on the Sui blockchain. It digitizes traditional community savings groups (Tontines / Ikirimba / Chama / Susu) by replacing physical cash boxes and human treasurers with secure on-chain smart contracts.

The MVP focuses on solving the core problems of:

Cash theft

Damaged bank notes

Treasurer errors

Lack of transparency

No financial reputation history

The system uses Sui Move smart contracts as a secure digital vault and Flutter as the mobile frontend to ensure accessibility and fast onboarding.

MVP Goal

Build a working mobile MVP where a small savings group can:

Create a savings circle

Join a circle

Contribute funds

Store funds securely in a Sui Move contract

Automatically determine payout rotation

View payment status of members

Execute payouts by smart contract logic

No advanced features — only core value.

Target Users

Primary Users:

Community savings groups

Local rotating savings circles

Informal financial groups

User Characteristics:

Mobile-first

Low crypto experience

Needs simple onboarding

Needs strong trust & transparency

🔥 Core MVP Features (ONLY)

1 Simple User Onboarding

Capability

User opens Flutter app

Signs in with:

zkLogin (preferred) OR

Simple wallet connect

MVP Requirement

No seed phrase handling in MVP UI

Store wallet session locally

2 Create Savings Circle

Capability

User can create a circle with:

Circle name

Contribution amount

Number of members

Contribution frequency (demo = manual trigger)

Member wallet list (for MVP)

Smart Contract Action

Creates a Circle Object on Sui with:

Circle {

```
    id  
    creator  
    members  
    contribution_amount  
    round_index  
    vault_balance  
    payout_order  
}
```

③Join Circle

Capability
User joins existing circle

Added to member list

Visible in UI member roster

MVP Simplification
Join via circle ID or invite code

No complex permissions yet

④Contribute Funds

Capability
User presses:

"Contribute Now"

App executes:

Transaction to Sui Move contract

Transfers contribution amount into vault

Smart Contract Logic
Verify user is member

Verify not already paid this round

Accept deposit

Mark paid status

⑤Digital Vault (Move Smart Contract)

Capability
Move contract holds:

All contributions

Locked funds

Round tracking

Member payment status

Rules

Funds cannot be withdrawn manually

Only payout function releases funds

Only contract controls distribution

6 Automated Rotation Payout

Capability

When all members contribute:

Contract automatically determines next beneficiary

Vault releases total pool to that member

Round increments

MVP Rule

Simple rotation:

beneficiary = members[round_index % members.length]

7 Circle Dashboard Screen (Flutter)

Show:

Circle name

Contribution amount

Members list

Paid / Pending status

Current round

Next beneficiary

Vault balance

8 Basic Trust Score (Simple Version)

Capability

Track:

On-time contributions

Missed contributions

MVP Implementation

Stored in Move:

TrustScore {

 user

 score

}

Rules:

+5 on payment

-10 on missed round

Displayed in UI profile

 Not Included in MVP

Do NOT build these yet:

DAO governance

Voting systems

Cross-chain payments

Advanced analytics

Chat system

Loans

Credit scoring engine

Notifications

AI features

 Technical Stack

 Frontend — Flutter

Use:

Flutter

Riverpod or Provider

HTTP client for Sui RPC

Wallet / zkLogin SDK

Material UI

Screens:

Login

Create Circle

Join Circle

Circle Dashboard

Contribute Screen

Profile

 Blockchain — Sui

Smart Contracts

Language:

Sui Move

Modules:

circle.move

vault.move

trust_score.move

Objects:

Circle

Vault

ContributionRecord

TrustScore

 Sui Integration

Use:

Sui TypeScript SDK (via backend helper OR direct)

JSON RPC

Devnet/Testnet

 Suggested Repo Structure

verytontine_mvp/

 flutter_app/

 lib/

 screens/

 widgets/

 services/

 models/

 sui_move/

 sources/

 circle.move

 vault.move

 trust_score.move

 docs/

 architecture.md

 contract_design.md