Decentrabank

Functionality Description Document

This document is a property of Mindfire Solutions and contains some confidential information and hence no part of this document should be distributed or copied elsewhere without permission of PL/TL/AL. This document is for internal purpose only.

Change Log

#	Description	Author	Date
1	FDD Version-1	Sunny sourav	13/01/2022
2			
3			
4			

Table of Contents

1. Overview

The aim of this project to create a smart contract help the users to get loan at fixed interest rate , this platform has 2 roles , the first is lender , the lender can deposit DAI(stablecoin) in pool and earn interest , whereas the other role is borrower who can borrow required DAI from the pool by keeping something of same or higher value as collateral as crypto and pay back the borrowed amount with interest in desired amount of time provided to him.

Milestone 1:

    a) Lender can DAI (stablecoin) deposit to pool.

    b) Borrower can deposit collateral as Ether.

    c) Borrower can get loan in DAI

    d) Borrower payback the loan with interest in DAI

    e) Lender can withdraw deposited funds in DAI

Milestone 2:

    a) Make basic interactive frontend

    b) Write Unit test cases

    c) Perform linting

    d) Perform slither testing

2. Features

1. Connect the wallet

   Connect your Metamask wallet to the smart contract for different operations

2. Deposit to Pool

   Lender deposit some amount to pool with some interest rate.

3. Add collateral

   Borrower have to deposit some Ether as collateral in order to get loan.

4. Borrow amount

   After successfully depositing DAI in the pool, borrowers are eligible to get loan.

5. Fixed Interest rate.

   Fix the Interest rate for loan and deposit.

6. Withdraw amount

   Lender can withdraw the deposited amount when needed with the interest .

7. Return the borrowed amount

   Borrower return back the borrowed amount with interest and get back the deposited collateral.